

Air Quality and Greenhouse Gas Emissions Calculations

Hazel M Bailey Primary School Expansion Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Hazel M Bailey Primary School Expansion
Construction Start Date	9/1/2025
Operational Year	2026
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.90
Precipitation (days)	25.8
Location	36.85422326305414, -120.44554595997326
County	Fresno
City	Firebaugh
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2527
EDFZ	5
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)		Special Landscape Area (sq ft)	Population	Description
Elementary School	21.0	1000sqft	1.05	20,952	0.00	0.00	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

		_ ` _		J -						J .	_							
Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.81	4.05	35.3	42.1	0.08	1.48	3.37	4.85	1.36	1.31	2.68	_	8,427	8,427	0.33	0.12	1.59	8,474
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.57	5.53	49.6	51.1	0.10	2.18	6.56	8.74	2.00	2.70	4.70	_	10,582	10,582	0.43	0.14	0.04	10,633
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.10	1.76	15.4	17.4	0.03	0.66	1.77	2.43	0.61	0.69	1.30	_	3,620	3,620	0.14	0.06	0.30	3,641
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.38	0.32	2.81	3.17	0.01	0.12	0.32	0.44	0.11	0.13	0.24	_	599	599	0.02	0.01	0.05	603

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily -	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer (Max)																		
2025	3.36	2.83	25.4	26.3	0.05	1.15	3.26	4.41	1.06	1.29	2.35	_	5,499	5,499	0.22	0.09	1.18	5,532

2026	4.81	4.05	35.3	42.1	0.08	1.48	3.37	4.85	1.36	1.31	2.68	_	8,427	8,427	0.33	0.12	1.59	8,474
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	6.57	5.53	49.6	51.1	0.10	2.18	6.56	8.74	2.00	2.70	4.70	_	10,582	10,582	0.43	0.14	0.04	10,633
2026	4.39	3.69	32.0	36.1	0.07	1.35	3.33	4.68	1.24	1.31	2.54	_	7,485	7,485	0.30	0.12	0.04	7,527
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	1.16	0.97	8.66	9.10	0.02	0.38	0.99	1.37	0.35	0.40	0.75	_	1,872	1,872	0.07	0.03	0.16	1,882
2026	2.10	1.76	15.4	17.4	0.03	0.66	1.77	2.43	0.61	0.69	1.30	_	3,620	3,620	0.14	0.06	0.30	3,641
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2025	0.21	0.18	1.58	1.66	< 0.005	0.07	0.18	0.25	0.06	0.07	0.14	_	310	310	0.01	< 0.005	0.03	312
2026	0.38	0.32	2.81	3.17	0.01	0.12	0.32	0.44	0.11	0.13	0.24	_	599	599	0.02	0.01	0.05	603

2.4. Operations Emissions Compared Against Thresholds

	TOG	ROG	NOx	CO	SO2			<u> </u>			PM2.5T		NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	-	-	-	-
Unmit.	0.64	0.62	0.01	0.91	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.8	216	232	1.62	0.01	0.08	275
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.8	212	228	1.62	0.01	0.08	271
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.55	0.55	< 0.005	0.45	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.8	214	230	1.62	0.01	0.08	273
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	2.62	35.5	38.1	0.27	< 0.005	0.01	45.2

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	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	0.00
Area	0.64	0.62	0.01	0.91	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.75	3.75	< 0.005	< 0.005	_	3.76
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	211	211	0.03	< 0.005	_	213
Water	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Waste	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Total	0.64	0.62	0.01	0.91	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.8	216	232	1.62	0.01	0.08	275
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Mobile	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	0.00
Area	0.47	0.47	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	211	211	0.03	< 0.005	_	213
Water	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Waste	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Total	0.47	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.8	212	228	1.62	0.01	0.08	271
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	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	0.00
Area	0.55	0.55	< 0.005	0.45	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.85	1.85	< 0.005	< 0.005	_	1.85
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	211	211	0.03	< 0.005	_	213
Water	_	_	_	_	-	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Waste	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4

Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Total	0.55	0.55	< 0.005	0.45	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.8	214	230	1.62	0.01	0.08	273
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	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	0.00
Area	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.31	0.31	< 0.005	< 0.005	_	0.31
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	34.9	34.9	0.01	< 0.005	_	35.3
Water	_	_	_	_	_	_	_	_	_	_	_	0.19	0.22	0.41	0.02	< 0.005	_	1.05
Waste	_	_	_	_	_	_	_	_	_	_	_	2.43	0.00	2.43	0.24	0.00	_	8.50
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01
Total	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	2.62	35.5	38.1	0.27	< 0.005	0.01	45.2

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	3.25	2.73	25.0	25.3	0.05	1.15	_	1.15	1.05	_	1.05	_	5,085	5,085	0.21	0.04	_	5,102
Dust From Material Movemen	— it	_	_	_	_	_	3.06	3.06	_	1.24	1.24	_	_	_	_	_	_	_
Onsite truck	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	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	3.25	2.73	25.0	25.3	0.05	1.15	_	1.15	1.05	_	1.05	_	5,085	5,085	0.21	0.04	_	5,102
Dust From Material Movemer	 it	_	_			_	3.06	3.06	_	1.24	1.24	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Off-Roa d Equipm ent	0.78	0.65	5.97	6.05	0.01	0.27	_	0.27	0.25	_	0.25	_	1,214	1,214	0.05	0.01	_	1,218
Dust From Material Movemer	 nt	_	_	_	_	_	0.73	0.73	_	0.30	0.30	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.14	0.12	1.09	1.10	< 0.005	0.05	_	0.05	0.05	_	0.05	_	201	201	0.01	< 0.005	_	202
Dust From Material Movemer	 nt	_	_	_	_	_	0.13	0.13	_	0.05	0.05	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
		_		-	-				-					-	-			

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.10	0.05	0.84	0.00	0.00	0.12	0.12	0.00	0.03	0.03	_	136	136	< 0.005	0.01	0.51	139
Vendor	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	0.00
Hauling	0.01	< 0.005	0.33	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	278	278	0.01	0.04	0.67	292
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.06	0.68	0.00	0.00	0.12	0.12	0.00	0.03	0.03	_	121	121	0.01	0.01	0.01	123
Vendor	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	0.00
Hauling	0.01	< 0.005	0.36	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	278	278	0.01	0.04	0.02	291
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	29.9	29.9	< 0.005	< 0.005	0.05	30.4
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	66.4	66.4	< 0.005	0.01	0.07	69.6
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	4.96	4.96	< 0.005	< 0.005	0.01	5.04
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	11.0	11.0	< 0.005	< 0.005	0.01	11.5

3.3. Site Preparation (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Roa d Equipm	3.08	2.58	23.0	24.7	0.05	1.03	_	1.03	0.95	_	0.95	_	5,085	5,085	0.21	0.04	_	5,102
Dust From Material Movemer	—	-	_			_	3.06	3.06	_	1.24	1.24	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	-	-	-	-	_	-	_	_	_	_	-	_	_	_	_	_	_
Off-Roa d Equipm ent	3.08	2.58	23.0	24.7	0.05	1.03	_	1.03	0.95	_	0.95	_	5,085	5,085	0.21	0.04	_	5,102
Dust From Material Movemer	—	_	_	-	-	_	3.06	3.06	_	1.24	1.24	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-	_	_	_
Off-Roa d Equipm ent	1.64	1.38	12.3	13.2	0.03	0.55	_	0.55	0.51	_	0.51	_	2,717	2,717	0.11	0.02	_	2,726
Dust From Material Movemer	—	_	_	_	_	_	1.64	1.64	_	0.66	0.66	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Roa d Equipm ent	0.30	0.25	2.25	2.41	< 0.005	0.10	_	0.10	0.09	_	0.09	_	450	450	0.02	< 0.005	_	451
Dust From Material Movemer		_	_	_	_	_	0.30	0.30	_	0.12	0.12	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.09	0.05	0.77	0.00	0.00	0.12	0.12	0.00	0.03	0.03	_	134	134	< 0.005	0.01	0.46	136
Vendor	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	0.00
Hauling	0.01	< 0.005	0.32	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	272	272	0.01	0.04	0.64	286
Daily, Winter (Max)	_	-	-	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_
Worker	0.08	0.08	0.06	0.62	0.00	0.00	0.12	0.12	0.00	0.03	0.03	_	119	119	< 0.005	0.01	0.01	120
Vendor	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	0.00
Hauling	0.01	< 0.005	0.34	0.08	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	_	272	272	0.01	0.04	0.02	286
Average Daily	_	-	-	_	_	_	_	_	-	_	_	_	_	_	_	-	_	-
Worker	0.05	0.04	0.03	0.34	0.00	0.00	0.06	0.06	0.00	0.02	0.02	_	65.6	65.6	< 0.005	< 0.005	0.11	66.7
Vendor	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	0.00
Hauling	0.01	< 0.005	0.18	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	146	146	< 0.005	0.02	0.15	153
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	10.9	10.9	< 0.005	< 0.005	0.02	11.0
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	24.1	24.1	< 0.005	< 0.005	0.02	25.3

3.5. Grading (2025) - Unmitigated

Location		ROG	NOx	СО	SO2	PM10E	PM10D	PM10T		PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	3.13	2.63	24.1	24.3	0.05	1.03	_	1.03	0.94	_	0.94	_	4,977	4,977	0.20	0.04	_	4,994
Dust From Material Movemer	—	_	_	_	_	_	3.18	3.18	_	1.38	1.38	_	_	_	_	_	_	_
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.20	0.17	1.52	1.53	< 0.005	0.06	_	0.06	0.06	_	0.06	_	314	314	0.01	< 0.005	_	315
Dust From Material Movemer	it	_	_	_	_		0.20	0.20		0.09	0.09	_		_			_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

	0.04	0.03	0.28	0.28	< 0.005	0.01	_	0.01	0.01	_	0.01	_	51.9	51.9	< 0.005	< 0.005	_	52.1
d Equipm ent																		
Dust From Material Movemer	—	_	_	_	_	_	0.04	0.04	_	0.02	0.02	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.06	0.68	0.00	0.00	0.12	0.12	0.00	0.03	0.03	_	121	121	0.01	0.01	0.01	123
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.90	7.90	< 0.005	< 0.005	0.01	8.03
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.31	1.31	< 0.005	< 0.005	< 0.005	1.33
Vendor	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	0.00
Hauling	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	0.00

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	-	_	_	_	_	_	-	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Off-Roa d Equipm ent	1.11	0.93	7.99	9.41	0.02	0.32	_	0.32	0.29	_	0.29	_	1,764	1,764	0.07	0.01	_	1,770
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.13	0.11	0.95	1.12	< 0.005	0.04	_	0.04	0.04	_	0.04	_	211	211	0.01	< 0.005	_	211
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.02	0.02	0.17	0.20	< 0.005	0.01	_	0.01	0.01	_	0.01	_	34.9	34.9	< 0.005	< 0.005	_	35.0
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	0.04	0.03	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	47.3	47.3	< 0.005	< 0.005	0.01	48.1
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	45.3	45.3	< 0.005	0.01	< 0.005	47.3
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	5.85	5.85	< 0.005	< 0.005	0.01	5.95
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	5.40	5.40	< 0.005	< 0.005	0.01	5.64
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.97	0.97	< 0.005	< 0.005	< 0.005	0.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	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	0.00

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	1.06	0.89	7.61	9.33	0.02	0.28	_	0.28	0.26	_	0.26	_	1,764	1,764	0.07	0.01	_	1,770
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Roa d Equipm ent	1.06	0.89	7.61	9.33	0.02	0.28	_	0.28	0.26	_	0.26	_	1,764	1,764	0.07	0.01	_	1,770
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	-	_	_	-	-	_	_	_	_	-	-	_
Off-Roa d Equipm ent	0.31	0.26	2.25	2.76	0.01	0.08	_	0.08	0.08	_	0.08	_	521	521	0.02	< 0.005	_	523
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.06	0.05	0.41	0.50	< 0.005	0.02	_	0.02	0.01	_	0.01	-	86.3	86.3	< 0.005	< 0.005	_	86.6
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.02	0.30	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	52.2	52.2	< 0.005	< 0.005	0.18	53.1
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	44.3	44.3	< 0.005	0.01	0.10	46.4
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	_	_
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	46.4	46.4	< 0.005	< 0.005	< 0.005	47.1
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	44.4	44.4	< 0.005	0.01	< 0.005	46.4
Hauling	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	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	13.1	13.1	< 0.005	< 0.005	0.01	13.7
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.35	2.35	< 0.005	< 0.005	< 0.005	2.39
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.17	2.17	< 0.005	< 0.005	< 0.005	2.27
Hauling	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	0.00

3.11. Paving (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.48	0.41	4.18	6.51	0.01	0.16	_	0.16	0.15	_	0.15	_	1,017	1,017	0.04	0.01	_	1,020
Paving	0.00	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Off-Roa d Equipm ent	0.06	0.05	0.49	0.77	< 0.005	0.02	_	0.02	0.02	_	0.02	_	120	120	< 0.005	< 0.005	_	120

Paving	0.00	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.01	0.01	0.09	0.14	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	19.8	19.8	< 0.005	< 0.005	_	19.9
Paving	0.00	0.00	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	-	-	_	-	_	-	_	-
Worker	0.04	0.04	0.02	0.34	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	59.4	59.4	< 0.005	< 0.005	0.21	60.4
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.43	6.43	< 0.005	< 0.005	0.01	6.54
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.06	1.06	< 0.005	< 0.005	< 0.005	1.08
Vendor	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	0.00
Hauling	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	0.00

3.13. Trench (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.12	0.10	0.83	1.02	< 0.005	0.03	_	0.03	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Onsite truck	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.01	0.01	0.10	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	16.9	16.9	< 0.005	< 0.005	_	17.0
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.80	2.80	< 0.005	< 0.005	_	2.81
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.5	13.5	< 0.005	< 0.005	< 0.005	13.7
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.66	1.66	< 0.005	< 0.005	< 0.005	1.69
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	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	0.00
Hauling	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	0.00

3.15. Trench (2026) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	всо2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Off-Roa d Equipm ent	0.11	0.09	0.82	1.02	< 0.005	0.02	_	0.02	0.02	_	0.02	_	142	142	0.01	< 0.005	_	142
Onsite truck	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	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	0.01	0.01	0.09	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	16.4	16.4	< 0.005	< 0.005	_	16.4
Onsite truck	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Roa d Equipm ent	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.71	2.71	< 0.005	< 0.005	_	2.72
Onsite truck	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	-	_	-	_	_
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.2	13.2	< 0.005	< 0.005	< 0.005	13.4
Vendor	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	0.00
Hauling	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	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.58	1.58	< 0.005	< 0.005	< 0.005	1.60
Vendor	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	0.00
Hauling	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Vendor	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	0.00
Hauling	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	0.00

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4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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	0.00
Total	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	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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	0.00
Total	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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	0.00
Total	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	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	_	211	211	0.03	< 0.005	_	213
Total	_	_	_	_	_	_	_	_	_	_	_	_	211	211	0.03	< 0.005	_	213
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	_	211	211	0.03	< 0.005	_	213
Total	_	_	_	_	_	_	_	_	_	_	_	_	211	211	0.03	< 0.005	_	213
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	_	34.9	34.9	0.01	< 0.005	_	35.3
Total	_	_	_	_	_	_	_	_	_	_	_	_	34.9	34.9	0.01	< 0.005	_	35.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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
Total	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

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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
Total	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	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
Total	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

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Product s	0.45	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coating s	0.03	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipm ent	0.16	0.15	0.01	0.91	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.75	3.75	< 0.005	< 0.005	_	3.76
Total	0.64	0.62	0.01	0.91	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.75	3.75	< 0.005	< 0.005	_	3.76

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Product s	0.45	0.45	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coating s	0.03	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	0.47	0.47	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Product s	0.08	0.08	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coating s	< 0.005	< 0.005	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipm ent	0.01	0.01	< 0.005	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.31	0.31	< 0.005	< 0.005	_	0.31
Total	0.10	0.10	< 0.005	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.31	0.31	< 0.005	< 0.005	_	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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Land	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Element School	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Total	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Total	_	_	_	_	_	_	_	_	_	_	_	1.16	1.34	2.50	0.12	< 0.005	_	6.34
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	0.19	0.22	0.41	0.02	< 0.005	_	1.05
Total	_	_	_	_	_	_	_	_	_	_	_	0.19	0.22	0.41	0.02	< 0.005	_	1.05

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Total	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Element ary School	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Total	_	_	_	_	_	_	_	_	_	_	_	14.7	0.00	14.7	1.47	0.00	_	51.4
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	2.43	0.00	2.43	0.24	0.00	_	8.50
Total	_	_	_	_	_	_	_	_	_	_	_	2.43	0.00	2.43	0.24	0.00	_	8.50

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D		BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.08	0.08
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Element ary School	_	_	_	_	-	-	_	_	_	_	_	_	_	_	_	_	0.01	0.01

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.01	0.01	
iotai																	0.01	0.01	

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG			со		PM10E	PM10D						NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipm ent Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetati	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
on																		

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	СО		PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_		_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer																		
(Max)																		

Avoided																			
Sequest	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —<	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d Subtotal — — — — — — — — — — — — — — — — — — —		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
d Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max) Avoided — — — — — — — — — — — — — — — — — —		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Winter (Max) — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — <t< td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Winter	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — <t< td=""><td>Avoided</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —<	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
d Subtotal — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —<	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
— — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —		_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — <td>Subtotal</td> <td>_</td>	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — </td <td>_</td>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —<	Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — <t< td=""><td>Avoided</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td></t<>	Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ered	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove — — — — — — — — — — — — — — — — — — —		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal — — — — — — — — — — — — — — — — — — —	Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	9/1/2025	9/30/2026	5.00	283	_
Grading	Grading	10/1/2025	10/31/2025	5.00	23.0	_
Building Construction	Building Construction	11/1/2025	5/31/2026	5.00	150	_
Paving	Paving	4/1/2026	5/31/2026	5.00	43.0	_
Trench	Trenching	11/1/2025	2/28/2026	5.00	85.0	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Site Preparation	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Site Preparation	Crawler Tractors	Diesel	Average	1.00	8.00	87.0	0.43
Site Preparation	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Site Preparation	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Site Preparation	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43

Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	2.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Building Construction	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Paving	Cement and Mortar Mixers	Diesel	Average	0.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	0.00	8.00	84.0	0.37
Paving	Rough Terrain Forklifts	Diesel	Average	1.00	8.00	96.0	0.40
Trench	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	22.5	7.70	LDA,LDT1,LDT2
Site Preparation	Vendor	_	4.00	HHDT,MHDT

Site Preparation	Hauling	3.98	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	22.5	7.70	LDA,LDT1,LDT2
Grading	Vendor	_	4.00	ннот,мнот
Grading	Hauling	0.00	20.0	ННОТ
Grading	Onsite truck	_	_	ННОТ
Building Construction	_	_	_	_
Building Construction	Worker	8.80	7.70	LDA,LDT1,LDT2
Building Construction	Vendor	3.43	4.00	ннот,мнот
Building Construction	Hauling	0.00	20.0	ННОТ
Building Construction	Onsite truck	_	_	ННОТ
Paving	_	_	_	_
Paving	Worker	10.0	7.70	LDA,LDT1,LDT2
Paving	Vendor	_	4.00	HHDT,MHDT
Paving	Hauling	0.00	20.0	ННОТ
Paving	Onsite truck	_	_	ННОТ
Trench	_	_	_	_
Trench	Worker	2.50	7.70	LDA,LDT1,LDT2
Trench	Vendor	_	4.00	ннот,мнот
Trench	Hauling	0.00	20.0	ННОТ
Trench	Onsite truck	_	_	ННОТ

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	4,500	4,500	690	0.00	_
Grading	_	_	46.0	0.00	_
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Elementary School	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)		Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	31,428	10,476	_

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Elementary School	377,667	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Elementary School	607,543	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Elementary School	27.2	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor	
Equipinent Type	I uei Type	Lilyine riei	Inditibel pel Day	Tibula i di Day	linnachowei	Luau i aciui	

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type Fuel Type Number Boiler Rating (MMBtu/hr) Daily Heat Input (MMBtu/day) Annual Heat Input (MM	Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
-----------------------------------------------------------------------------------------------------------------------	----------------	-----------	--------	--------------------------	------------------------------	------------------------------

5.17. User Defined

Equipment Type Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Final Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	30.8	annual days of extreme heat
Extreme Precipitation	0.20	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	70.5

AQ-PM	50.8
AQ-DPM	12.2
Drinking Water	70.5
Lead Risk Housing	56.3
Pesticides	90.7
Toxic Releases	42.4
Traffic	4.19
Effect Indicators	
CleanUp Sites	46.1
Groundwater	93.2
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	43.8
Solid Waste	52.9
Sensitive Population	_
Asthma	89.8
Cardio-vascular	96.1
Low Birth Weights	39.5
Socioeconomic Factor Indicators	_
Education	98.8
Housing	36.2
Linguistic	97.3
Poverty	96.2
Unemployment	99.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	,	Result for Project Census Tract
Economic		_

	15 7577010
Above Poverty	15.7577313
Employed	46.28512768
Median HI	18.99140254
Education	_
Bachelor's or higher	4.157577313
High school enrollment	23.59810086
Preschool enrollment	55.65250866
Transportation	_
Auto Access	43.87270627
Active commuting	29.03888105
Social	_
2-parent households	63.68535866
Voting	4.414217888
Neighborhood	_
Alcohol availability	54.61311433
Park access	44.65546003
Retail density	5.82574105
Supermarket access	43.73155396
Tree canopy	22.0069293
Housing	_
Homeownership	40.94700372
Housing habitability	29.47517002
Low-inc homeowner severe housing cost burden	60.59283973
Low-inc renter severe housing cost burden	59.92557423
Uncrowded housing	13.37097395
Health Outcomes	_
Insured adults	10.6249198
Arthritis	0.0

Asthma ER Admissions	34.3
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	46.3
Cognitively Disabled	58.3
Physically Disabled	83.0
Heart Attack ER Admissions	21.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	40.5
Elderly	90.0
English Speaking	5.8
Foreign-born	80.7

Outdoor Workers	0.9
Climate Change Adaptive Capacity	_
Impervious Surface Cover	80.9
Traffic Density	4.1
Traffic Access	0.0
Other Indices	_
Hardship	91.9
Other Decision Support	_
2016 Voting	15.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	90.0
Healthy Places Index Score for Project Location (b)	21.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Screen	Justification		
Land Use	Based on applicant provided information		
Construction: Construction Phases	No demo or architectural coating onsite		
Construction: Off-Road Equipment	Based on applicant provided information		
Operations: Energy Use	The buildings would be all-electric		
Operations: Vehicle Data	The project would serve the existing student population and would not increase mobile trips compared to existing conditions		

Appendix B

Cultural Resources Assessment



Hazel M. Bailey Primary School Expansion

Cultural Resources Technical Report

prepared for

Firebaugh-Las Deltas Unified School District

1976 Morris Kyle Drive Firebaugh, California 93622

Contact: Terry Bradley, District Consultant

prepared by

Rincon Consultants, Inc.

7080 North Whitney Avenue, Suite 101 Fresno, California 93720

June 2024



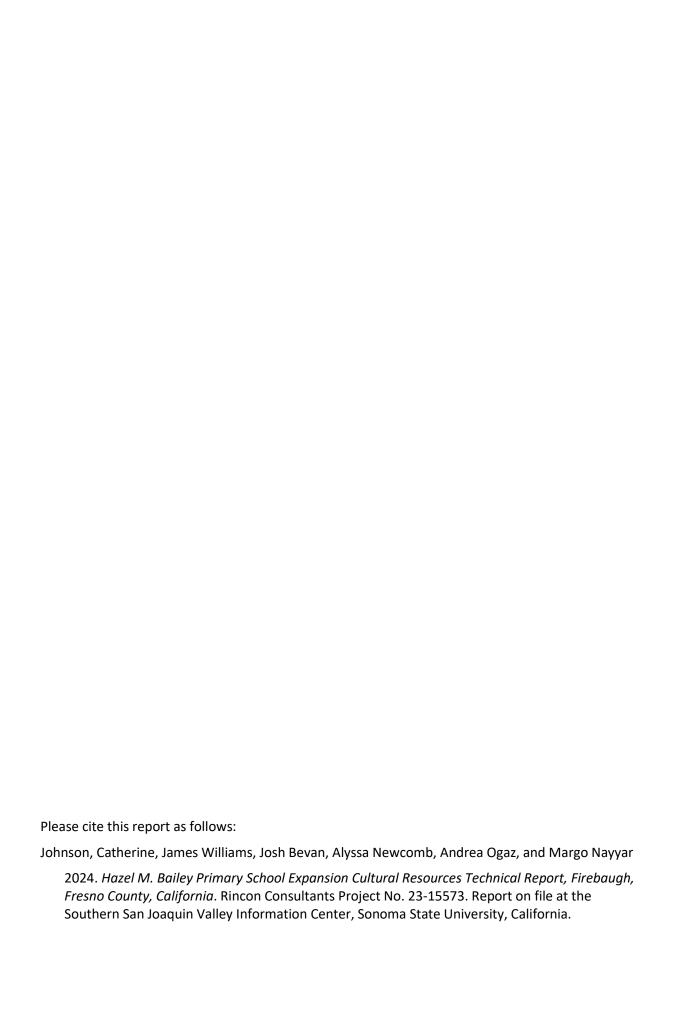


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Firebaugh-Las Deltas Unified School District Hazel M. Bailey Primary School Expansion

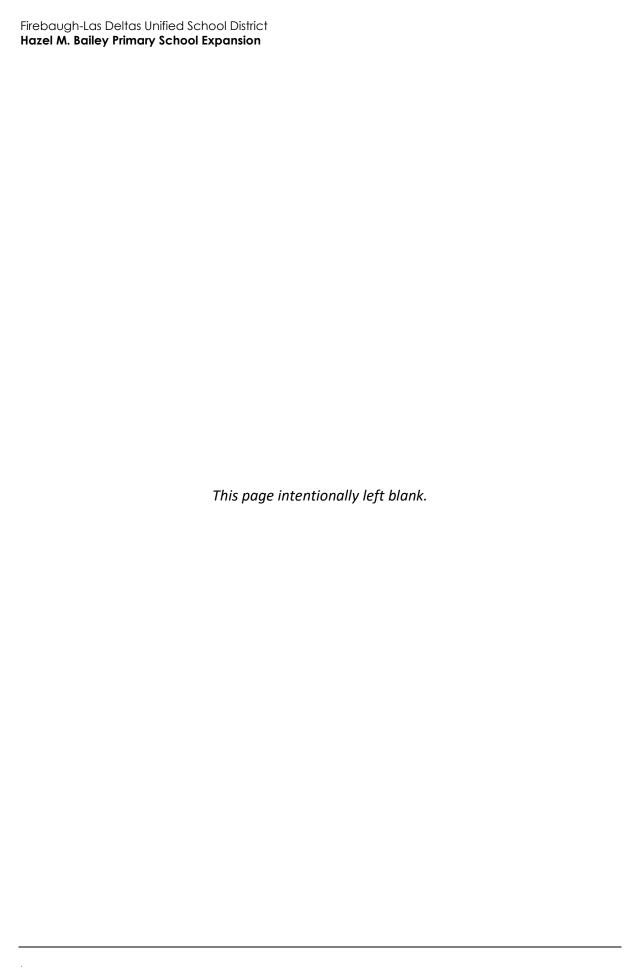
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Appendices

Appendix A California Historical Resources Information System Records Search Results

Appendix B Native American Heritage Commission Sacred Lands File Search Results

Appendix C California Department of Parks and Recreation 523 Forms



Executive Summary

Firebaugh-Las Deltas Unified School District retained Rincon Consultants, Inc. (Rincon) to conduct a cultural resources assessment for the Hazel M. Bailey Primary School Classroom Expansion Project (project) in Firebaugh, Fresno County, California. Hazel M. Bailey Primary School encompasses approximately 14 acres and a total area of 616,055 square feet. The proposed project would construct 14 additional classrooms (1,350 square feet each) and update existing portable buildings. In addition, the project will add new and improve existing administrative buildings and facilities, including restroom repairs, repurposing and relocating existing buildings, replacing plumbing features, including storm drainage systems and sewers, new play yards and courts, and new parking lots. The project is subject to the California Environmental Quality Act (CEQA). The Firebaugh-Las Deltas Unified School District is the lead agency under CEQA.

This assessment includes the methods and results of a cultural resources records search of the California Historical Resources Information System, Sacred Lands File search, pedestrian survey, literature review, geoarchaeological sensitivity analysis, and National Register of Historic Places and California Register of Historical Resources evaluation of the Hazel M. Bailey Primary School. The school is recommended ineligible for the National Register of Historic Places and California Register of Historical Resources and is therefore not a historical resource as defined by CEQA. Changes to the subject property under the current project therefore would not result in a substantial adverse change to historical resources. As such, Rincon recommends a finding of *no impact to historical resources* pursuant to CEQA.

Likewise, no known archaeological resources qualifying as either historical resources or unique archaeological resources have been identified within or adjacent to the project site as a result of this assessment. The records search, literature review, Sacred Lands File search, and archaeological pedestrian survey identified no archaeological resources in the project site. A review of historic topographic maps and aerial photography reveals that the project site was undeveloped until the construction of the extant primary school in the mid-1950's and has undergone continuous grading, landscaping, and development in the years since.

A geoarchaeological review of soils and geologic maps was conducted to assess the sensitivity of the project site for subsurface archaeological resources. The review indicates the project site is underlain by Holocene-aged (beginning approximately 11,700 years ago) alluvial sediments (geological units al and asu). Alluvial sediments have an episodic nature and an increased likelihood of burying archaeological deposits. Furthermore, the Holocene dates to human occupation of the area and is generally conducive to the natural burial and preservation of archaeological deposits. Sudden burial of artifacts is often identified when there are buried A horizons in a soil series; however, the soil series mapped within the project site does not have documented buried A horizon soils. The results of the geoarchaeological review and the level of past disturbances suggest a low potential for encountering subsurface archaeological resources. However, the project site lies within the overflow zone of the San Joaquin River, and watercourses are known to be archaeologically sensitive. Therefore, Rincon recommends implementation of proper procedures for treatment of archaeological resources in the event of unanticipated discovery. Rincon recommends a finding of less-than-significant impact to archaeological resources with mitigation incorporated under CEQA.

1 Introduction

Firebaugh-Las Deltas Unified School District retained Rincon Consultants, Inc. (Rincon) to conduct a cultural resources study for the Hazel M. Bailey Primary School Classroom Expansion Project (project) in Firebaugh, Fresno County, California. This technical report documents the methods and results of the California Historical Resources Information System search, Sacred Lands File search, pedestrian survey, literature review, geoarchaeological sensitivity analysis, and National Register of Historic Places and California Register of Historical Resources evaluation of the Hazel M. Bailey Primary School. This study has been completed pursuant to the requirements of the California Environmental Quality Act (CEQA). The Firebaugh-Las Deltas Unified School District is the lead agency under CEQA.

1.1 Project Site and Description

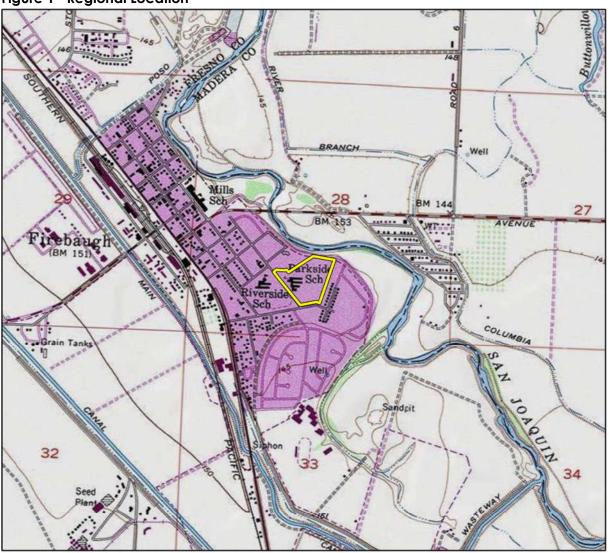
The project site is located at Hazel M. Bailey Primary School at 1691 Q Street, Firebaugh, Fresno County, California. Specifically, the project encompasses portions of Section 28 of Township 12 South, Range 14 East on the *Firebaugh, California* United States Geological Survey (USGS) 7.5-minute topographic quadrangle (Figure 1). The project site is bounded by the San Joaquin River and a public park to the north, residential development to the east, Saipan Avenue and commercial and residential development to the south, and Q Street and Firebaugh Middle School to the west (Figure 2).

The Hazel M. Bailey Primary School is a part of the Firebaugh-Las Deltas Unified School District Facilities Master Plan, which aims to provide improvements for existing school sites within the district for the next 10 years or more. The Hazel M. Bailey Primary School encompasses approximately 14 acres and a total area of 616,055 square feet. The proposed project will construct 14 additional classrooms (1,350 square feet each) and update existing portable buildings. In addition, the project will add new and improve existing administrative buildings and facilities including restroom repairs, repurposing and relocating existing buildings, replacing plumbing features, including storm drainage systems and sewers, new play yards and courts, and new parking lots.

1.2 Personnel

Rincon Senior Archaeologist Alyssa Newcomb, MS, Registered Professional Archaeologist (RPA), provided management oversight for this cultural resources study. Architectural Historian James Williams, MA, conducted archival research and co-authored this report with Archaeologist Catherine Johnson, PhD, RPA, and Architectural Historian Josh Bevan, MSHP. Archaeologist Andrea Ogaz, MA, RPA, performed the cultural resources records search and completed the Native American outreach for this project. Archaeologist Courtney Montgomery, MA, conducted the field survey. Geographic Information Systems Kat Castanon prepared the figures found in this report. Principal Margo Nayyar, MA, reviewed this report for quality control. The listed personnel are Secretary of the Interior Professional Qualified in History, Architectural History, and/or Archaeology (National Park Service 1983).

Figure 1 Regional Location



Basemap provided by National Geographic Society, Esri and their licensors © 2024. Firebaugh Quadrangle. T125 R14E S28. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

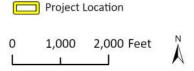




Figure 2 Project Site



2 Regulatory Setting

This section includes a discussion of the applicable state and local laws, ordinances, regulations, and standards governing cultural resources, which must be adhered to before and during implementation of the project.

2.1 California Environmental Quality Act

California Public Resources Code (PRC) Section 21084.1 requires that lead agencies determine if a project could have a significant impact on historical or unique archaeological resources. As defined in PRC Section 21084.1, a historical resource is a resource listed in, or determined eligible for listing in, the California Register of Historical Resources (CRHR), a resource included in a local register of historical resources or identified in a historical resources survey pursuant to PRC Section 5024.1(g), or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant. PRC Section 21084.1 also states that resources meeting the above criteria are presumed to be historically or cultural significant unless the preponderance of evidence demonstrates otherwise. Resources listed in the National Register of Historic Places (NRHP) are automatically listed in the CRHR, as are California Historical Landmarks 770 and above; both are therefore historical resources under CEQA. Historical resources may include eligible built environment resources and archaeological resources of the precontact or historic periods.

State CEQA Guidelines Section 15064.5(c) provides further guidance on the consideration of archaeological resources. If an archaeological resource does not qualify as a historical resource, it may meet the definition of a "unique archaeological resource" as identified in PRC Section 21083.2. PRC Section 21083.2(g) defines a *unique archaeological resource* as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria: 1) it contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information, 2) has a special and particular quality such as being the oldest of its type or the best available example of its type, or 3) is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological resource does not qualify as a historical or unique archaeological resource, the impacts of a project on those resources will be less than significant and need not be considered further (State CEQA Guidelines Section 15064.5[c][4]). State CEQA Guidelines Section 15064.5 also provides guidance for addressing the potential presence of human remains, including those discovered during the implementation of a project.

According to CEQA, an impact that results in a substantial adverse change in the significance of a historical resource is considered a significant impact on the environment. A substantial adverse change could result from physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired (*State CEQA Guidelines* Section 15064.5 [b][1]). *Material impairment* is defined as demolition or alteration in an adverse manner [of] those characteristics of a historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR or a local register (*State CEQA Guidelines* Section 15064.5[b][2][A]).

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a][b]).

The requirements for mitigation measures under CEQA are outlined in *State CEQA Guidelines*Section 15126.4(a)(1). In addition to being fully enforceable, mitigation measures must be completed within a defined time period and be roughly proportional to the impacts of the project. Generally, a project which is found to comply with the Secretary of the Interior's *Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings* (Standards) is considered to be mitigated below a level of significance (*State CEQA Guidelines* Section 15126.4 [b][1]). For historical resources of an archaeological nature, lead agencies should also seek to avoid damaging effects where feasible. Preservation in place is the preferred manner to mitigate impacts to archaeological sites; however, data recovery through excavation may be the only option in certain instances (*State CEQA Guidelines* Section 15126.4[b][3]).

2.1.1 National Register of Historic Places

Although the project does not have a federal nexus, properties which are listed in or have been formally determined eligible for listing in the NRHP are automatically listed in the CRHR. The following is therefore presented to provide applicable regulatory context. The NRHP was authorized by Section 101 of the National Historic Preservation Act and is the nation's official list of cultural resources worthy of preservation. The NRHP recognizes the quality of significance in American, state, and local history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects. Per 36 CFR Part 60.4, a property is eligible for listing in the NRHP if it meets one or more of the following criteria:

Criterion A: Is associated with events that have made a significant contribution to the broad

patterns of our history

Criterion B: Is associated with the lives of persons significant in our past

Criterion C: Embodies the distinctive characteristics of a type, period, or method of installation,

or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack

individual distinction

Criterion D: Has yielded, or may be likely to yield, information important in prehistory or history

In addition to meeting at least one of the above designation criteria, resources must also retain integrity. The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several of these seven qualities, if not all, defined as follows:

Location: The place where the historic property was constructed or the place where the

historic event occurred

Design: The combination of elements that create the form, plan, space, structure, and

style of a property

Setting: The physical environment of a historic property

Materials: The physical elements that were combined or deposited during a particular period

of time and in a particular pattern or configuration to form a historic property

Workmanship: The physical evidence of the crafts of a particular culture or people during any

given period in history or prehistory

Feeling: A property's expression of the aesthetic or historic sense of a particular period of

time

Association: The direct link between an important historic event or person and a historic

property

Certain properties are generally considered ineligible for listing in the NRHP, including cemeteries, birthplaces, graves of historical figures, properties owned by religious institutions, relocated structures, or commemorative properties. Additionally, a property must be at least 50 years of age to be eligible for listing in the NRHP. The National Park Service states that 50 years is the general estimate of the time needed to develop the necessary historical perspective to evaluate significance (National Park Service 1997: 41). Properties which are less than 50 years must be determined to have "exceptional importance" to be considered eligible for NRHP listing.

2.1.2 California Register of Historical Resources

The CRHR was established in 1992 and codified by PRC Sections 5024.1 and Title 14 Section 4852. The CRHR is an authoritative listing and guide to be used by state and local agencies, private groups, and citizens in identifying the existing historical resources of the state and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change (PRC 5024.1(a)). The criteria for eligibility for the CRHR are consistent with the NRHP criteria but have been modified for state use in order to include a range of historical resources that better reflect the history of California (PRC 5024.1(b)). Unlike the NRHP however, the CRHR does not have a defined age threshold for eligibility; rather, a resource may be eligible for the CRHR if it can be demonstrated sufficient time has passed to understand its historical or architectural significance (California Office of Historic Preservation 2011). Furthermore, resources may still be eligible for listing in the CRHR even if they do not retain sufficient integrity for NRHP eligibility (California Office of Historic Preservation 2011). Generally, the California Office of Historic Preservation recommends resources over 45 years of age be recorded and evaluated for historical resources eligibility (California Office of Historic Preservation 1995: 2).

A property is eligible for listing in the CRHR if it meets one of more of the following criteria:

Criterion 1: Is associated with events that have made a significant contribution to the broad

patterns of California's history and cultural heritage

Criterion 2: Is associated with the lives of persons important to our past

Criterion 3: Embodies the distinctive characteristics of a type, period, region, or method of

construction, or represents the work of an important creative individual, or

possesses high artistic values

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history

2.1.3 California Assembly Bill 52 of 2014

As of July 1, 2015, Assembly Bill (AB) 52 was enacted and expands CEQA by defining a new resource category, "tribal cultural resources". AB 52 establishes, "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment" (PRC Section 21084.2). It further states the CEQA lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3).

PRC Section 21074 (a)(1)(A) and (B) define *tribal cultural resources* as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe" and that meets at least one of the following criteria, as summarized in the *State CEQA Guidelines* Appendix G:

- 1) Listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in PRC § 5020.1(k)
- 2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC § 5024.1. In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 also establishes a formal consultation process with California Native American tribes that must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." California Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

2.2 California Senate Bill 18 of 2004

California Government Code Section 65352.3 (adopted pursuant to the requirements of Senate Bill [SB] 18) requires local governments to contact, refer plans to, and consult with tribal organizations prior to making a decision to adopt or amend a general or specific plan. The tribal organizations eligible to consult have traditional lands in a local government's jurisdiction, and are identified, upon request, by the Native American Heritage Commission (NAHC). As noted in the California Office of Planning and Research's Tribal Consultation Guidelines (2005); "The intent of SB 18 is to provide California Native American tribes an opportunity to participate in local land use decisions at an early planning stage, for the purpose of protecting, or mitigating impacts to, cultural places." SB 18 refers to PRC Section 5097.9 and 5097.995 to define cultural places as:

- A Native American sanctified cemetery, place of worship, religious or ceremonial site, or sacred shrine (PRC Section 5097.9)
- A Native American historic, cultural, or sacred site, that is listed or may be eligible for listing
 in the California Register of Historical Resources pursuant to Section 5024.1, including any
 historic or prehistoric ruins, any burial ground, any archaeological or historic site (PRC
 Section 5097.995).

2.3 California Health and Safety Code

Section 7050.5 of the California Health and Safety Code states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the Coroner of the county in which the remains are discovered has determined if the remains are subject to the Coroner's authority. If the human remains are of Native American origin, the Coroner must notify the NAHC within 24 hours of this identification.

2.4 California Public Resources Code Section 5097.98

Section 5097.98 of the PRC states that the NAHC, upon notification of the discovery of Native American human remains pursuant to Health and Safety Code Section 7050.5, shall immediately notify those persons (i.e., the Most Likely Descendant [MLD]) that it believes to be descended from the deceased. With permission of the landowner or a designated representative, the MLD may inspect the remains and any associated cultural materials and make recommendations for treatment or disposition of the remains and associated grave goods. The MLD shall provide recommendations or preferences for treatment of the remains and associated cultural materials within 48 hours of being granted access to the site.

2.5 Local Regulations

2.5.1 City of Firebaugh Municipal Code

The City of Firebaugh Municipal Code provides for the establishment and duties of the Historical Preservation Board (Ordinance #80-4, S1E through S5E). The regulations authorize the Historical Preservation Board to identify properties of historical and architectural significance throughout Firebaugh; however, the regulations do provide a process for the formal designation of historical resources at the local level.

3 Natural and Cultural Setting

This section provides background information pertaining to the natural and cultural context of the project site. It places the project site within the broader natural environment that has sustained populations throughout history. This section also provides an overview of regional indigenous history, local ethnography, and post-contact history. This background information describes the distribution and type of cultural resources documented near the project site to inform the cultural resources sensitivity assessment and the context within which resources have been evaluated.

3.1 Natural Setting

The project site is located in western Fresno County in the Transverse Ranges at an approximate elevation of 142 feet (43 meters) above mean sea level. The Coast Ranges lie approximately 20 miles west and southwest of the project site. The surrounding area does not retain much of its natural setting, with the exception of San Joaquin River approximately 132 feet north of the project site, which has retained its original alignment. The area has historically been used for agricultural purposes. In addition, the arrival of the Southern Pacific Railroad in the late 1800s brought residential development to the area. Fresno Slough is approximately 6.25 miles southeast of the project site. These two watercourses, the San Joaquin River and the Fresno Slough, likely provided water resources to Native American tribes around the area, as well as historic-period settlers. Vegetation within the project site and surrounding area consists of landscaped grounds, ornamental trees and shrubbery, and riparian environments closer to the San Joaquin River.

3.2 Cultural Setting

3.2.1 Indigenous History

The Central Valley has been described as one of the largest intermontane basins extending 650 kilometers from the Siskiyou to the Tehachapi mountains (Rosenthal et al. 2007). No single chronological framework covers the entire Central Valley, but California prehistory is generally divided into three broad time periods: the Paleoindian Period (ca. 11,550 to 8550 BCE), the Archaic Period (8550 BCE to CE 1100), and the Emergent Occupation (CE 1000 to European Contact) (Fredrickson 1973, 1974), which has been updated and adjusted by Rosenthal et al. (2007) to further separate the Archaic Period into Lower (8550 BCE to 5550 BCE), Middle (5550 BCE to 550 BCE), and Upper (550 BCE to CE 1100). The prehistoric chronological sequence for the Central Valley presented below is based on Rosenthal et al. (2007) and Moratto (1984).

Paleoindian Period (11,550 to 8550 BCE)

Little is currently known about the Paleoindian Period in the Central Valley. Geoarchaeological studies have demonstrated that erosion and deposition have buried or destroyed early archaeological deposits. Most claims of ancient human occupation have been dismissed by Moratto (1984) based on radiocarbon dating. This period is represented by isolated finds, and currently, the earliest accepted date of human occupation in the Central Valley ranges from 11,550 to 9550 BCE and comes from fluted projectile points similar to Clovis points found at sites near Tracy Lake and the Tulare Lake Basin. Along with fluted projectile points, concave base points have been discovered

along the Tulare Lake shoreline which was occupied during the Late Pleistocene (Rosenthal et al. 2007).

Lower Archaic (8550 to 5550 BCE)

Climate change at the end of the Pleistocene caused significant periods of alluvial deposition beginning around 9050 BCE. These new alluvial deposits created a clear stratigraphic boundary between the Late Pleistocene and Holocene sediments. The Lower Archaic, like the Paleoindian Period, is represented only by limited isolated finds. Only one Lower Archaic site (KER-116) has been identified in the Central Valley proper and few in the foothills surrounding the valley (Rosenthal et al. 2007).

The relationship between foothill and valley floor adaptations is largely unknown during the Lower Archaic; however, it is suggested that the foothill sites may have been seasonally used during this time. More distinct adaptations are apparent in the Middle Archaic, and it is possible that these divergent traditions first emerged in the Lower Archaic (Rosenthal et al. 2007).

Middle Archaic (5550 to 550 BCE)

The Middle Archaic began with substantial climate change to much warmer, drier conditions. Tulare Lake shrank and eventually disappeared. With this came new wetlands that created new habitats, and rising sea levels led to the creation of the Sacramento-San Joaquin Delta, creating new deposits. Fans and floodplains stabilized after an initial period of deposition in 5550 BCE. Archaeological deposits dating to the Middle Archaic are rare in the Central Valley proper due to these geomorphic changes. The Middle Archaic record has revealed a pattern of organized subsistence strategies and increased residential stability. The archetypal pattern of the Middle Archaic has been identified as the Windmiller Pattern. This pattern is represented by extended burials oriented to the west and a sophisticated material culture (Rosenthal et al. 2007).

During this time, the mortar and pestle become more widespread, suggesting a shift toward more intensive subsistence practices and a higher reliance on acorn. Fishing technologies, such as bone gorges, hooks, and spears, also appear during the Middle Archaic, suggesting a new focus on fishing, especially in the Marsh Creek area. Several other technologies become apparent during this time. Baked-clay impressions of twined basketry, simple pottery, and other baked clay objects have been found at several sites. Personal adornment items also become more frequent. Exchange with outside groups is evidenced by the presence of obsidian, shell beads, and ornaments (Rosenthal et al. 2007, Moratto 1984, Burns et al. 2012). Trade also seemed to be focused on utilitarian items such as obsidian or finished obsidian tools from at least five separate sources (Moratto 1984).

Upper Archaic (550 BCE to CE 1100)

The Upper Archaic began with the onset of the Late Holocene, marked by a cooler, wetter climate. The environmental conditions of the Upper Archaic were characterized by the return of lakes that had disappeared during the Middle Archaic and a renewed fan and floodplain deposition. The Upper Archaic is better represented in the archaeological record than earlier periods. Cultural diversity was more pronounced and is marked by contrasting material cultures throughout the valley (Rosenthal et al. 2007).

During this period, numerous specialized technologies were developed such as bone tools, and implements, manufactured goods such as Olivella and *Haliotis* beads and ornaments, well-made

ceremonial blades, and ground-stone plummets. People living in the San Joaquin Valley region traded with neighboring groups for obsidian (Rosenthal et al. 2007).

Upper Archaic Period economies varied by region throughout the Central Valley. Economies were primarily focused on seasonal resources such as acorns, salmon, shellfish, rabbits, and deer (Rosenthal et al. 2007).

Emergent Occupation (CE 1000 to Historic)

The stable climatic conditions of the Upper Archaic continued into the Emergent Period. There has been sporadic research in the San Joaquin Valley on this time period, and thus only the Pacheco Complex on the western edge of the valley has been formally defined. After CE 1000, many of the technologies witnessed during the Archaic disappeared to be replaced by cultural traditions witnessed at European contact. During the Emergent Period, the bow and arrow replaced the atlatl as the preferred hunting method sometime between CE 1000 and 1300 (Rosenthal et al. 2007).

Increased social complexity is evidenced by increased variation in burial types and offerings and larger residential communities. Grave offerings such as shell beads, ornaments, and ritually "killed" mortars and pestles are often found in burials. Pottery was frequently obtained through trade with groups living in the foothills to the east. The Panoche side-notched point became important in the western side of the San Joaquin Valley (Rosenthal et al. 2007). In addition to the side-notched point, the Panoche Complex featured large circular structures, flexed burials, marine shell beads, bone awls, milling stones, and mortars and pestles (Moratto 1984).

As with the Archaic Period, Emergent Period economies varied geographically, although throughout the Central Valley fishing and plant harvesting increased in importance. Most Emergent Period residential sites contain diverse assemblages of mammal and bird remains and large amounts of fish bone. After 1,000 years, the mortar and pestle become the dominant tool type and small seeds increase in archaeological deposits over time (Rosenthal et al. 2007).

3.2.2 Ethnographic Setting

The project site is located in the traditional territory of the Penutian-speaking Yokuts, which includes San Joaquin Valley and surrounding foothills (Kroeber 1925; Wallace 1978). Three geographical divisions of the Yokuts are the Northern Valley, Southern Valley, and Foothill Yokuts. The distinction between the three groups is primarily based on language dialect (Mithun 2001). The project is located within the ethnographic territory of the Northern Valley Yokuts (Wallace 1978). The Southern Valley Yokuts occupied the southern San Joaquin Valley south of the San Joaquin River, to the foot of the Tehachapi Mountains.

The Yokuts established large permanent village settlements, or closely associated smaller settlements, which includes the principal Yokut village of Tulamniu. Residential structures were most often of two types: single-family dwellings and larger communal residences that housed 10 families or more. Villages frequently included mat-covered granaries and a sweathouse (Mithun 2001; Sutton et al. 2016).

The basic economic unit among the Yokuts was the nuclear family. The nuclear family was linked to totemic lineages based on patrilineal descent. Totem symbols were passed from father to offspring. Families that shared the same totem formed an exogamous lineage. Totems were associated with one of two moieties. This moiety division played a role during ceremonies and other social events (Wallace 1978).

Yokuts were split into self-governing local groups that included several villages. Each group had a chief who directed ceremonies, mediated disputes, handled punishment of those doing wrong, hosted visitors, and provided aid to the impoverished. In certain cases, settlements had two chiefs, one for each moiety. Other political positions included the chief's messenger and the spokesman (Wallace 1978).

Shamans were an important part of Yokut village life. A Yokut Shaman gained power through a dream or vision. If, after this vision, the man accepted the role as shaman, he would pray, fast, and acquire talismans to aid him in his future work. Shamans had the ability to heal the sick and served a primary role in religious life (Wallace 1978).

Yokuts subsistence strategy was based on a mixed economy focused on fishing, collecting, and hunting small game. Fishermen employed tule rafts and caught fish with nets, spears, basket traps, and bow and arrow. They often gathered mussels and hunted turtles in lakes, rivers, and streams. Wild seeds and roots contributed a large portion to the Yokuts diet. Tule roots were gathered, dried, and pounded into a flour that was prepared as a mush. Tule seeds and grass and flowering herb seeds were prepared in the same way. Leaves and stems of certain plants, such as clover and fiddleneck, were also collected. Acorns, a staple of most California Native Americans, were not readily available in the ethnographic territory of the Yokuts. Some Yokuts tribes traded for acorns with neighboring groups, such as the Salinan and Chumash to the west, the Foothill Yokuts to the east, and the Kawaiisu and Kitanemuk to the southeast (Kroeber 1925). Waterfowl was frequently hunted with snares, nets, and bow and arrow. Land mammals and birds contributed a smaller part of the Yokuts diet. Small game was occasionally taken in snares or traps or shot with bow and arrow (Wallace 1978; Sutton et al. 2016).

Yokuts technology depended primarily on tule. Stems of the plant served as the raw material for baskets, cradles, boats, housing, and many other items. Manos and metates were used to process food and animal hides (Barton et al. 2010; Sutton et al. 2016). Tools such as knives, projectile points, and scraping tools were made from imported lithic materials, because stone was not readily available in the Central Valley. Some tools, such as bead drills, could be made from obsidian obtained from some distance or obtained through trade (Sutton et al. 2016). Marine shells secured through trade with coastal groups were used as shell money and personal adornment items, such as Olivella beads (Sutton et al. 2016; Wallace 1978).

3.2.3 Post-Contact Setting

Post-contact history for the state of California is generally divided into three periods: the Spanish Period (1769 to 1822), Mexican Period (1822 to 1848), and American Period (1848 to present). Although Spanish, Russian, and British explorers visited California for brief periods between 1529 and 1769, the Spanish Period in California begins with the establishment in 1769 of a settlement at San Diego and the founding of Mission San Diego de Alcalá, the first of 21 missions constructed between 1769 and 1823. Independence from Spain in 1821 marks the beginning of the Mexican Period, and the signing of the Treaty of Guadalupe Hidalgo in 1848, ending the Mexican-American War, signals the beginning of the American Period when California became a territory of the United States.

Spanish Period (1769 to 1822)

Spanish explorers made sailing expeditions along the coast of California between the mid-1500s and mid-1700s. Juan Rodriguez Cabrillo in 1542 led the first European expedition to observe what was

Hazel M. Bailey Primary School Expansion

known by the Spanish as Alta (upper) California. For more than 200 years, Cabrillo and other Spanish, Portuguese, British, and Russian explorers sailed the Alta California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968; Rolle 2003). The Spanish crown laid claim to Alta California based on the surveys conducted by Cabríllo and Vizcaíno (Bancroft 1885; Gumprecht 1999). Inland expeditions made use of trails already established by Native American groups, such as El Camino Viejo located in the western interior of San Joaquin Valley (Hoover et al. 1966).

By the eighteenth century, Spain developed a three-pronged approach to secure its hold on the territory and counter against other foreign explorers. The Spanish established military forts known as presidios, as well as missions and pueblos (towns) throughout Alta California. The 1769 overland expedition by Captain Gaspár de Portolá marks the beginning of California's Historic Period, occurring just after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. Construction of missions and associated presidios was a major emphasis during the Spanish Period in California to integrate the Native American population into Christianity and communal enterprise. Incentives were also provided to bring settlers to pueblos or towns; just three pueblos were established during the Spanish Period, only two of which (San José and Los Angeles) were successful and remain as California cities (Milliken et al. 2009).

Although no missions are located near the project site, baptismal records indicate that Yokuts speakers comprised a significant portion of the populations at multiple missions, including Mission Santa Clara (founded in 1777), Mission Nuestra Senora de la Soledad (founded in 1791), Mission Santa Cruz (founded in 1791), Mission San Juan Batista (founded in 1797), and Mission San José (founded in 1797) (Milliken et al. 2009). Individuals from two Yokuts groups, the Eyulaluas of the Firebaugh vicinity and the Copchas from the vicinity of Mendota, were relocated to Mission San Juan Batista between 1817 and 1819 (Milliken et al. 2009: 146–147). Baptismal records also indicate that small groups of Yokuts speakers linked to the Mendota-Tranquillity and Tulare Lake regions relocated to Mission Nuestra Senora de la Soledad between 1806 and 1817 (143).

Spain began making land grants in 1784, typically to retiring soldiers, although the grantees were only permitted to inhabit and work the land. The land titles technically remained property of the Spanish king (Livingston 1914).

Mexican Period (1822 to 1848)

Several factors kept growth within Alta California to a minimum, including the threat of foreign invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion and warfare, New Spain won independence from Spain in 1821. In 1822, the Mexican legislative body in California ended isolationist policies designed to protect the Spanish monopoly on trade, and decreed California ports open to foreign merchants (Dallas 1955).

Extensive land grants were established in the interior during the Mexican Period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. The secularization of the missions following Mexico's independence from Spain resulted in the subdivision of former mission lands and establishment of many additional ranchos. Commonly, former soldiers and well-connected Mexican families were the recipients of these land grants, which now included the title to the land (Dallas 1955).

During the supremacy of the ranchos (1834 to 1848), landowners largely focused on the cattle industry and devoted large tracts to grazing. Cattle hides became a primary Southern California

export, providing a commodity to trade for goods from the east and other areas in the United States and Mexico. The number of nonnative inhabitants increased during this period because of the influx of explorers, trappers, and ranchers associated with the land grants. The rising California population contributed to the introduction and rise of diseases foreign to the Native American population, who had no associated immunities (Dallas 1955).

American Period (1848 to Present)

The United States went to war with Mexico in 1846. During the first year of the war, John C. Fremont traveled from Monterey to Los Angeles with reinforcements for Commodore, Stockton, and evaded Californian soldiers in Santa Barbara's Gaviota Pass by taking the route over the San Marcos grade instead (Kyle 2002). The war ended in 1848 with the Treaty of Guadalupe Hidalgo, ushering California into its American Period.

California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as United States territories (Waugh 2003). Horticulture and livestock, based primarily on cattle as the currency and staple of the rancho system, continued to dominate the Southern California economy through 1850s. The discovery of gold in the northern part of the state led to the Gold Rush beginning in 1848, and with the influx of people seeking gold, cattle were no longer desired mainly for their hides but also as a source of meat and other goods. During the 1850s cattle boom, rancho vaqueros drove large herds from Southern to Northern California to feed that region's burgeoning mining and commercial boom.

A severe drought in the 1860s decimated cattle herds and drastically affected rancheros' source of income. In addition, property boundaries that were loosely established during the Mexican era led to disputes with new incoming settlers, problems with squatters, and lawsuits. Rancheros often were encumbered by debt and the cost of legal fees to defend their property. As a result, much of the rancho lands were sold or otherwise acquired by Americans. Most of these ranchos were subdivided into agricultural parcels or towns (Dumke 1944).

Local History

Following the arrival of the railroad in 1872, the population of Fresno County soared as speculators acquired undeveloped land for subdivision. The vision of German immigrant Bernard Marks, the Central California Colony was established in 1875 just south of the City of Fresno, approximately 25 miles northwest of the Project site (Hattersley-Drayton 2013). Although other agricultural colonies had existed prior, the Central California Colony is considered the first successful agricultural colony in Fresno County (Thickens 1946). After the initial success of the Central California Colony, other similar colonies were established throughout the county by a diverse group of settlers. A map dated 1903 depicts 48 agricultural colonies in Fresno County (Panter 1994).

Firebaugh began in 1854 when Andrew Firebaugh established a trading post and ferry on the San Joaquin River known as Firebaugh's Ferry. The ferry was an important means of transport for settlers and prospectors heading into the mountains for gold and was the major thoroughfare prior to the railroad (City of Firebaugh 2024). Firebaugh's Ferry served as a station along the Butterfield Overland Mail Route, which transported mail between St. Louis, Missouri and San Francisco from 1858 to 1861 (Helmich 2008). The Butterfield Overland Mail Route passed through Firebaugh from the northwest, roughly following present day Nth Street until heading east near the intersection of Nth Street and 13th Street, crossing the San Joaquin River approximately 165 meters (0.10 miles) north of the project site (Alison 2012).

Firebaugh-Las Deltas Unified School District Hazel M. Bailey Primary School Expansion

Andrew Firebaugh continued to expand on Firebaugh's growth, including co-founding "The Academy," Fresno County's first secondary school (City of Firebaugh 2024). In 1885, Firebaugh Historical Jail was constructed as a Lincoln-log style jail, which is only one of two still in existence in California (City of Firebaugh 2024). Firebaugh was incorporated as a city in December 1914 and has continued to grow as an important agricultural center within western Fresno County (City of Firebaugh 2024). As of 2023, the population of Firebaugh was recorded at 8,547 (United States Census 2024).

4 Methods

This section presents the methods for each task completed during the preparation of this study.

4.1 Background and Archival Research

4.1.1 Archival Research

Rincon completed background and archival research in support of this study in May 2024. A variety of primary and secondary source materials were consulted. Sources included, but were not limited to, historical maps, aerial photographs, and written histories of the area. The following sources were utilized to develop an understanding of the project site and its context:

- Fresno County Assessor's Office
- Historical aerial photographs accessed via NETR Online
- Historical aerial photographs accessed via UCSB Library FrameFinder
- Historical newspaper clippings obtained from Newspapers.com
- Geologic Maps via USGS National Geologic Map Database
- University of California, Davis, California Soil Resource Lab Soil Survey

4.1.2 California Historical Resources Information System Records Search

On April 22, 2024, Rincon received California Historical Resources Information System (CHRIS) records search results (records search #24-177) from the Southern San Joaquin Valley Information Center (SSJVIC) (Appendix A). The SSJVIC is the official state repository for cultural resources records and reports for the county in which the project falls. The purpose of the records search was to identify previously recorded cultural resources, as well as previously conducted cultural resources studies within the project site and a 0.5-mile radius surrounding it. Rincon also reviewed the NRHP, CRHR, California Historical Landmarks list, Built Environment Resources Directory, and the Archaeological Determination of Eligibility list.

4.1.3 Sacred Lands File Search

Rincon contacted the NAHC on April 10, 2024, to request a search of the Sacred Lands File (SLF), as well as a contact list of Native Americans culturally affiliated with the project area (Appendix B).

4.2 Field Survey

Under the direction of Rincon Architectural Historian James Williams, MA, Courtney Montgomery, MA, conducted a built environment survey of the project site on May 18 and May 22, 2024. The built environment resources within the project site, including buildings, structures and associated playground, utility, and landscape elements, were visually inspected. Site characteristics and

conditions were documented using notes and digital photographs which are maintained by Rincon digitally.

Rincon Archaeologist Courtney Montgomery, MA, also conducted a pedestrian survey of the project site on May 18 and May 22, 2024. Rincon conducted an opportunistic pedestrian survey without using transect intervals. Exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historical debris (e.g., metal, glass, ceramics). Ground disturbances, such as burrows and drainages, were also visually inspected. Survey accuracy was maintained using a handheld GPS unit and a georeferenced map of the project site. Site characteristics and survey conditions were documented using field records and a digital camera. Copies of the survey notes and digital photographs are maintained by Rincon digitally.

4.3 Evaluation

Pursuant to the California Office of Historic Preservation Guidelines (California Office of Historic Preservation 1995: 2), properties over 45 years of age were evaluated for inclusion in the NRHP, CRHR, and local listing and recorded on California Department of Parks and Recreation 523 series forms. One resource, Hazel M. Bailey Primary School, was evaluated.

5 Findings

This section presents the findings for each task completed during the preparation of this study.

5.1 Background Research

5.1.1 California Historical Resources Information System Records Search

Previous Cultural Resources Studies

The CHRIS records search and background research identified 11 cultural resources studies within 0.50 mile of the project site (Appendix A). No studies have been completed within the project site; therefore, 0 percent of the project site has been previously studied or surveyed.

Previously Recorded Cultural Resources

The CHRIS records search and background research identified three cultural resources within a 0.50 mile of the project site. Resources recorded in the search radius are listed in Table 1 below. No resources are recorded within or adjacent to the project site. Resources recorded within the project site are discussed in further detail below.

Table 1 Known Cultural Resources

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-10- 003930	CA-FRE- 003109H	Historic Structure	Southern Pacific Railroad West Side Line/San Joaquin Valley Railroad, San Pablo and Tulare Extension Railroad, built in 1888, 140 miles in length.	1998 (W.L. Norton); 1999 (S. Hooper, S. Flint); 2002 (P.B. Murphy); 2004 (B. Larson and C. Toffelmier); 2009 (J. Freemon and R. Flores); 2009 (J. Freeman and R. Flores); 2009 (J. Freeman and R. Flores); 2010 (M. Hibma); 2013 (R. Baloian); 2015 (R. Baloian); 2016 (J. Tibbet); 2018 (A. McCausland); 2018 (J. Jones); 2018 (J. Jones); 2021 (M. Bird)	Recommended not eligible for NRHP or CRHR in 2015 by Applied EarthWorks, Inc.	Outside

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-10- 005795	CA-FRE- 003514H	Historic Structure	Main Canal (HP20) – Originally called the San Joaquin and Kings River Canal, built in 1871 by the San Joaquin and Kings River Canal and Irrigation Company	1995 (R.S. Levy); 2009 (J. Freeman and J. Jones); 2010 (T. Webb and S. Melvin)	NR Code 6Z, 6Y: Determined not eligible for the NRHP, CRHR, or local designation by Caltrans in 1995 and JRP Historical Consulting, LLC. In 2009	Outside
P-20- 002383	CA-MAD- 002920H	Historic Site	Columbia Canal	2000 (G. Roark, T. Pitsenberger, M. Craw); 2010 (T. Webb and S.J. Melvin); 2019 (M. Van Meter); 2019 (A. Younie and M. Van Meter); 2019 (A. Younie and M. Van Meter); 2022 (R. Azpitarte, M. Silva, B. Sandford, and A. Travis)	NR Code 6Y: Determined not eligible in 2010 by JRP Historical Consulting and by Reclamation and the SHPO in 2019	Outside

Source: Southern San Joaquin Valley Information Center 2024

5.1.2 Sacred Land File Search

On April 12, 2024, the NAHC responded to Rincon's SLF request, stating that the results of the SLF search were negative. See Appendix B for the NAHC response, including Tribal Contacts List(s). No tribal outreach was conducted as part of this study.

5.1.3 Aerial Imagery and Historical Topographic Maps Review

Rincon completed a review of historical topographic maps and aerial imagery to ascertain the development history of the project site. A review of United States Bureau of Land Management (BLM) General Land Office Plat maps from 1855 depict the project site as undeveloped land within the San Joaquin River overflow (BLM 1855). Historical topographic maps from 1923 depict an access road circling around the project site north to east and traveling south towards a canal titled the San Joaquin and Kings River Canal and an access road running parallel (USGS 1923). That same year the project site remains undeveloped as the city of Firebaugh to the west grows along the Southern Pacific Railroad. The project site remains undeveloped in aerial photography from 1936, albeit a single access road running east to west through the project site and various worn pathways and trails throughout the area (UCSB 1936). A historical topographic map from 1946 depicts additional urban development as an extension of the city of Firebaugh south of the project site, which is confirmed in 1946 aerial photography (NETR Online 2024; USGS 1946). That same year, the project site appears graded and disced.

Development within the project site appears in aerial photography from 1955 when construction of the extant school facility began (NETR Online 2024). That same year, Saipan Avenue and Q Street are visible as well as early stages of development of the residential community easterly adjacent to the project site. Historical topographic maps from 1956 confirm the establishment of Parkside School as a five-unit complex within the project site as well as Riverside School to the southwest (USGS 1956). By 1965, aerial photography depicts additional buildings and classroom extensions at the corner of Saipan Avenue and Q Street (UCSB 1965). Imagery from 1981 depicts the existing parking lot to the south end of the campus, a graded and paved area for the existing parking lot to the west, as well as ornamental trees throughout the northern field and the beginnings of the extant baseball diamond at the northern end of the project site (NETR Online 2024). Further classroom and landscaping additions appear throughout aerial photography from 1998 to 2024, including the solar panels to the north and east in 2012 (Google Earth 2024, NETR Online 2024).

5.1.4 Geologic and Soils Map Review

Geologic mapping indicates Quaternary aged surficial sediments (map units "al" and "asu") composed of alluvium and alluvial sand and silt are mapped at surface within the project site (Wahrhaftig et al. 1993). Both geologic units were deposited during the Holocene (beginning approximately 11,700 years ago). The Holocene dates to human occupation of the region and is generally conducive to the natural burial and preservation of archaeological deposits. Additionally, because of the episodic nature of alluvial sedimentation, the sudden burial of artifacts is possible, and alluvial soils have an increased likelihood of containing buried archaeological deposits (Waters 1992; Borejaza et al. 2014).

Soils mapping indicates the project site is underlain primarily by Elnido sandy loam (320), a very deep, poorly drained soil formed in alluvium, dominantly from granatic sources, and found on channels, flood plains, basin floors, and valley basins (California Soil Resource Lab 2002). The typical Elnido series soil profile consists of topsoil (A horizon) from 0 to 18 inches below the ground surface ranging from dark grayish brown, very dark gray, and very dark brown sandy loam; grayish-brown to dark grayish-brown sandy loam from 18 to 27 inches below the ground surface; and grayish-brown to dark olive gray sandy loam from 27 to 60 inches below the ground surface (California Soil Resource Lab 2002). The soil profile does not contain buried topsoil (buried A-horizons), which would indicate potential for the presence of subsurface archaeological deposits.

5.1.5 Archaeological Sensitivity Summary

The archival research indicates the sediments mapped at surface within the project site are alluvial sediments generally conducive to the natural burial and preservation of archaeological resources given they were deposited during the Holocene, a period that dates to human occupation of the region. The soils map indicates the project site is underlain by Elnido sandy loam, which has no documented indication of buried topsoil horizons. Given the age of the geologic units and the absence of buried soil horizons as suggested by the geologic and soils maps, the project site has low to moderate sensitivity for the presence of subsurface archaeological deposits. Additionally, the project site lies within the overflow zone of the San Joaquin River, and watercourses are known to be archaeologically sensitive as they likely provided water resources to Native American tribes around the area, as well as historic-period settlers. However, the degree of previous disturbance within the project site associated with the construction of the extant Hazel M. Bailey Primary School would reduce the likelihood for encountering intact subsurface archaeological deposits during

project construction. Therefore, Rincon recommends a low sensitivity for the presence of subsurface archaeological deposits.

5.2 Field Survey Results

5.2.1 Built Environment Resources

The field work and background research resulted in the identification of one historic-age property within the project site, Hazel M. Bailey Primary School (Figure 3). This property was recorded and evaluated for eligibility to the NRHP and CRHR on California Department of Parks and Recreation 523 series forms, which are included in Appendix C and summarized below.

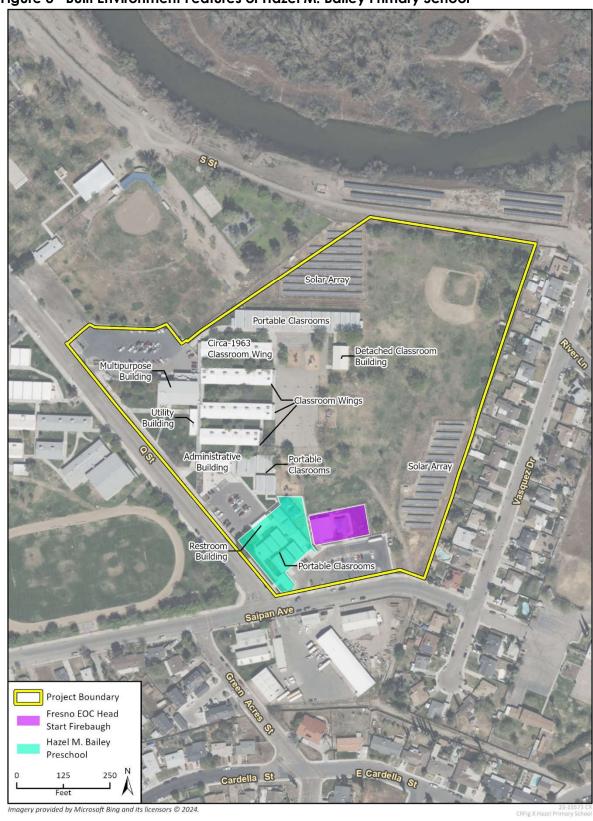


Figure 3 Built Environment Features of Hazel M. Bailey Primary School

Hazel M. Bailey Primary School

The Hazel M. Bailey Primary School is a multiple-building, public educational property on an irregular parcel, located in the southeastern region of Firebaugh, immediately to the south of Dunkle Park and immediately to the southwest of the San Joaquin River. The property is located along the east side of Q Street and north side of Saipan Avenue, and the south corner of Dunkle Park. These parcels contain a surface parking lot and landscaped area associated with the Bailey Primary School. Components of the subject property include Bailey Primary School, Bailey Preschool, and the Fresno Economic Opportunities Commission Head Start Firebaugh facility. The property shares a parcel with Dunkle Park to the north, Firebaugh Middle School to the southwest, and a Firebaugh-Las Deltas School District operation facility to the south; however, only the Primary School, Preschool and Head Start facility are evaluated in this study, due to their shared developmental history.

The Bailey Primary School centers on a finger-plan school composed of four one-story classroom wings and a kindergarten classroom that extends roughly east from the two-story multipurpose building on the west side of the complex. The utility building is situated to the immediate south of the administration building, paralleling the long, covered walkway that connects the various wings along a roughly north-to-south axis. Each of these buildings has a concrete slab foundation, woodframe and a smooth stucco exterior. Roofs are moderately pitched gables with short overhangs; however, exceptions are noted below. Fenestration consists mostly of two-light rectangular windows arranged, typically with non-original vinyl sashes along the long north and south façades.

The multipurpose building is the focal point of the complex, and the wider campus, due to its proximity to the right-of-way and its height and scale, which out-measures all other buildings in the complex (Photograph 1). It has an irregular form and plan, characterized by a larger, gabled central mass and a lower-profile, flat-roof utility area that projects from the north elevation. Entrances are on the north, south, and east elevations and are characterized by solid wood doors, in some cases accessed via straight concrete stairs. Moderate overhangs on the north and south eave ends shelter bands of tripartite vinyl-sash window groupings, which located at the clerestory level and embedded in a wood surround. Entrances feature metal framed sidelights and transoms, typically with large plate glass. Flush steel doors in single and double configurations are found throughout the facility. Exposed climate control equipment and other mechanical features are located adjacent to the north and south of the building.

Adjacent to the multipurpose building is the utility building, which extends perpendicularly to the south (Photograph 2). A low-rise, pent-roof form, it features a ribbon of six non-original vinyl windows spaced by wood muntins. To the north of the windows is the main school entrance, which consists of solid wood doors surrounded by a system of wood lights. The west-facing entrance opens directly into the school's central corridor. Additional entrances to the administrative building feature solid wood doors, including those to the restrooms.

Photograph 1 Multipurpose Building, South and West Elevations



Photograph 2 Utility Building, South and West Elevations



The classroom wings are generally consistent in design, though there are minor differences between the wings completed with the school's original construction and northernmost wing, which was

completed as an addition circa 1964. All four one-story, rectangular-plan, gabled roof wings extend east from the central corridor. Concrete walkways trace the south eave sides of the wings, sheltered by a wide roof overhang with steel pole supports and a wood *brise soleil* (Photograph 3). Entrances are also located on the south elevations and feature solid wood door, located at the clerestory level, south elevation windows and feature groupings of three non-original vinyl sashes. North elevation windows are a grouped in threes, generally situated within and near the bottom of a large wood frame, suggesting there were originally larger banks of windows at these locations (Photograph 4). The circa-1965 wing generally shares the characteristics of the original wings but is differentiated principally by a broad gable end overhang, which shelters restroom entrances at the east end of the wing (Photograph 5).

Photograph 3 Representative View of Original Classroom Wing, South Elevation





Photograph 4 Representative View of Original Classroom Wing, South Elevation





Firebaugh-Las Deltas Unified School District Hazel M. Bailey Primary School Expansion

The southernmost wing, constructed as part of the school's original development is used as administrative offices. The one-story building presents as a relatively short classroom wing and rises from a rectangular plan to culminate in a gabled roof. Similar to the other wings, it is stucco clad, with entrances located on the south elevations, sheltered by a board overhang with steel pole supports. Stuccoed partial walls support the far ends of the overhang.

Contemporary, portable classroom buildings (installed between circa 1998 and circa 2005) are situated in a linear group of 13 to the north of the main classroom wings, and in a group of six to the southeast (installed in phases between circa 1981 and circa 2005) of the classroom wings. These modular buildings feature exteriors finished with T1-11 or similar pressed-wood siding exteriors, accessible entrance ramps with metal railings, single-entry flush-steel doors, tripartite aluminum windows, and nearly flat gable roofs with moderate overhangs.

Photograph 6 Administrative Offices, South and East Elevations



Photograph 7 Representative View of North Portable Classroom Cluster, South Elevations



Photograph 8 Representative View of South Portable Classroom Cluster, North and East Elevations



North of the classroom wings is a detached classroom building, constructed circa 2005. The building, which exhibits no discernible architectural style, is one story in height, rectangular in plan and capped with a side-gabled roof, whose west eave extends broadly to shelter the front of the building. Its exterior is stuccoed and punctuated by a series of glazed wood doors and metal-sash windows.





Hazel M. Bailey Preschool

The Hazel M. Bailey Preschool is located at the south end of the property, near the intersection of Q Street and Saipan Avenue. It consists of eight portable classrooms and a standalone restroom building. The one-story restroom building, constructed circa 1959, is generally rectangular in plan and capped with a flat roof with broad overhangs on the south elevation. Its exterior is of stackbond brick construction. A recessed entry area features separate boys' and girls' entrances, aluminum-sash clerestory windows, and non-original drinking fountains. Its brick pattern and broad roof overhang suggest the minimal influence of the Mid-Century Modern architectural style.

The portable buildings, installed between circa 1981 and circa 2005, are generally similar in design and construction to those elsewhere on the campus, as described above.





Photograph 11 Representative View of Preschool Portable Classrooms



Fresno Economic Opportunities Commission Head Start Firebaugh

The Fresno Economic Opportunities Commission Head Start Firebaugh is an educational facility occupying a portion of the south end of the Bailey Primary School Campus, immediately east of the

Bailey Preschool. Constructed circa 2009, it consists of a classroom building of no discernible architectural style and a playground with a shade structure.

Site Features

Outside the building footprints, the subject property features several landscaped and hardscaped areas. Large lawns, with mature trees, occupy areas south and west of the multipurpose building and at the rear (east) of the campus. The rear lawn is used as a play area and is, accordingly, relatively large and outfitted play equipment and a baseball diamond, in addition to two nonoriginal solar arrays installed circa 2012. Smaller landscaped areas are interspersed among the property's buildings and generally feature grass, trees and shrubs. Hardscaping includes three parking lots, generally on the south and west ends of the property, and a large, paved playground immediately east of the classroom wings. Elsewhere exterior walkways and smaller play or assembly areas are paved in concrete.

5.2.2 Archaeological Resources

Ground visibility was poor with approximately 0 to 15 percent exposure. The extant building, graded and concrete surfaces, leaf litter, and manicured lawns, imported material, ornamental non-native trees, underground utilities, and vegetation obscured surface visibility throughout the project site (Photograph 12 and Photograph 13). The soil throughout the project site consisted of compacted tan to light brown, fine-grained, fill sand and grayish-brown silty loam (Photograph 14 through Photograph 16). The solar panel areas were inaccessible and were not surveyed. The area has been heavily disturbed from construction and maintenance of the extant elementary school campus. No archaeological resources were identified during the field survey.





Photograph 13 Southern Play Area, View to the Northwest



Photograph 14 Exposed Soil by Preschool Classrooms, View to the Southwest



Photograph 15 Exposed Soil Surrounding underground Utilities, View to the Southeast



Photograph 16 Overview of Southeastern Corner, View to the Northeast



6 Resource Evaluations

One resource, Hazel M. Bailey Primary School, was evaluated for the NRHP and CRHR. The historic context and criteria analysis are presented below and in the DPR 523 forms in Appendix C.

6.1 Hazel M. Bailey Primary School

6.1.1.1 Property History

Circa 1951, the Firebaugh Joint School District purchased the 20-acre tract of former farmland on which the present-day Hazel M. Bailey Primary and other district facilities are located (*Fresno Bee* 1952c). Development of the school was part of a wider school plant expansion led by district superintendent Roland A. Wilkie, who at the start of his 15-year tenure, helmed a one-school district. The expansion began shortly after Wilkie assumed his position as superintendent in 1951 and included the development of a junior high school and three elementary schools; among these schools were the subject school and the neighboring Riverside Elementary School, presently the Firebaugh Middle School (*Santa Cruz Sentinel* 2000).

By the summer of 1952, the architecture practice of Fred L. Swartz and William G. Hyberg produced designs for the school, and the district began soliciting proposals from contractors to construct the campus per Swartz and Hyberg's plans (*Fresno Bee* 1952a). Originally named Parkside Elementary School, the campus design featured 14 classrooms, two kindergarten classrooms, a combined administrative and health unit, and a multipurpose room. General contractor Coast Wide Construction Company of Stockton won the construction contract, valued at nearly \$500,000, in October 1952 (*Fresno Bee* 1952b). Around that time district officials, including superintendent Roland A. Willkie, trustee Narval Davis, and clerk James Roggero, attended a groundbreaking ceremony at the site. Construction was expected to be complete around the beginning of the 1953–1954 school year, though the school's precise date of completion could not be identified (*Fresno Bee* 1952c). In 1954, the district issued a request for contractors to develop the school's playground and an unspecified "earthwork" (*Fresno Bee* 1954a).

The earliest graphic evidence of the school is an aerial photographs taken in 1955, which shows the school was five-unit complex designed on a finger plan (Nationwide Environmental Title Research, LLC [NETR Online] 2024). Consistent with the finger-plan typology, the school consisted a relatively large multi-purpose room building on the east side of the complex, with four wings, or fingers, of varying size extending to the east. The wings, which housed classrooms and the administrative and nursing units, were linked to each other and the multipurpose building by a central exterior walkway, which was likely sheltered by the existing canopies or similar structures (NETR Online 2024). Below, an aerial photograph taken in 1957 shows the subject school roughly in its original form (Figure 4).

The first expansions of the campus were made in the 1950s and 1960s. A classified advertisement published in the December 12, 1958, edition of the *Fresno Bee*, the school district called for proposals from contractors to develop a swimming pool and combined restroom and shower building (*Fresno Bee* 1958). Approximately 3 years later, local voters approved a \$350,000 bond to finance improvements at the two subject schools. Among the improvements slated to be constructed with the bond funds was northernmost classroom wing (*Fresno Bee* 1963). A review of

historical aerial photographs shows both buildings were in place by 1965, with the new classrooms constructed as the building's extant northernmost wing and the swimming pool (which is no longer extant) and restroom/shower building (extant) at the south end of the campus, in the present location (University of California, Santa Barbara [UCSB] 1957, Figure 54)

Figure 4 Historical Aerial Photograph of Bailey Primary School, 1957





Figure 5 Historical Aerial Photograph of Bailey Primary School, 1965

In 1976, the subject school came under the jurisdiction of the Firebaugh-Las Deltas Unified School District, which was established by voters in the service areas of the Firebaugh and Las Deltas school districts to pool resources for the development and operation of a new high school. An article in the June 28, 1980, edition of the Fresno Bee announced, Parkside Elementary would soon be renamed to honor Hazel M. Bailey, a teacher of 31 years' experience who has given 31 years of 'unequalled dedication and devotion' to her pupils and will have a school named after her" (*Fresno Bee* 1980) No available sources indicate that Bailey ever taught at the subject school.

Since the early 1980s, there have been several changes to the property. A number of portable classroom buildings were constructed to augment the subject school and were completed in phases between 1981 and 2005. Circa 1998, development of what became the Bailey Preschool began at the former site of the swimming pool, at the southern end of the property. While the restroom/shower building remains as part of the preschool, the pool has been filled or removed to accommodate the installation of portable classroom buildings. This work was completed in the early twenty first century. The Fresno Economic Opportunities Commission Head Start Firebaugh dates to around the same time and was completed in 2009 (NETR Online 2024).

Trends in School Plan Development

In the early years of school development in the United States, the most typical building type for educational facilities was a wood-frame, one-room schoolhouse. Rapid urbanization throughout the United States in the early twentieth century required a new approach. Public schools began separating students into grades with separate classrooms for each level. The new building typology tended to be rectangular, with high ceilings for large windows, and standardized furniture. The Progressive Education Movement, reflective of the Progressive Era (1890s—1920s), began to appear

in school design. With a new emphasis on health and safety, schools were designed with improved heating systems, ventilation, and sanitation. At the same time, the school design became more monumental and included secondary spaces including gymnasiums and playgrounds but were generally designed with a double-loaded corridor, characterized by classrooms on either side.

Following World War II, and the rapid growth of communities, school design was updated again, and a variety of school plans, standardizations, and designs began to emerge. Such plans included the finger-plan school. Initially developed in the 1930s by the Fresno-based architecture firm Franklin and Kump. The finger-plan school was characterized a series of single-loaded classroom wings, fingers, so to speak, which extended from central outdoor corridor. To get the full benefits of natural light and ventilation, north elevations were outfitted with banks of full-height windows, while south elevation windows were usually located at the clerestory level. Other campus facilities might include a central multipurpose area or library. The finger-plan became the most common school type built on the West Coast in the 1940s, especially after World War II, and was eventually adapted for development in less temperate climates. By the 1950s, however, the type was eclipsed in popularity by the cluster plan and open-plan school types (Sapphos Environmental 2014).

Mid-Century Modern-Style Architecture

Mid-Century Modern-style architecture represents the evolution of the prevailing iterations of pre-World War II modernism into more widely accessible expressions. The style emerged from the work of a second generation of Southern California modernists, including Raphael Soriano, Ray Kappe, Pierre Koenig, and A. Quincy Jones. Between 1945 and the late 1960s, *Art and Architecture* magazine's coverage of John Entenza's Case Study House program helped to raise awareness of the movement on an international scale. The Mid-Century Modern style, like other modernist styles, is characterized by a rejection of historicist ornament and a forthright display of structure and materials. Post-and-bean structural systems of wood or steel figure prominently in compositions. Expanses of windows, often extended to the roofline, accentuate open floorplans and contribute to the style's characteristic integration of indoor and outdoor areas. Buildings tend to have an overall horizontal emphasis, an effect produced by use of sprawling plans, low-slung roofs, and broad, cantilevered eaves and canopies. Exterior surface materials vary widely to include wood, stucco, brick and stone, or steel-framed glass. Mid-Century Modern styling features most prominently in residential and commercial uses, as well as neighborhood institutional properties, such as libraries, schools, and fire stations (Sapphos Environmental 2009).

Swartz and Hyberg, Architects

The subject school was initially developed according to plans designed by the architecture firm Swartz and Hyberg. Founded in 1946, the firm was led by architects Fred L. Swartz and William G. Hyberg. The firm is credited with the designs of several major buildings in Fresno, including the Fresno County Library, Elks Lodge, and Fresno State College science building, Greyhound depot. The firm was also a prolific designer of schools, including a \$4 million contract to develop more than a dozen buildings for the Modesto School District, along with smaller contracts in the Firebaugh, Fresno, Reedley, Dinuba, and Madera school districts (*Fresno Bee* 1968). The Pacific Coast Architecture Database identifies the New Washington Grammar School (constructed in 1950) as work of the firm (Pacific Coast Architecture Database 2024).

Fred L. Swartz

Swartz was born in Girard, Kansas, in 1885 and relocated to California by the time of his graduation from Fresno High School in 1903. He worked for a short time in a San Francisco architectural office, before completing a two-year course in architecture at the University of Pennsylvania. Swartz returned to Fresno by 1909 to work as an architect in the practice of his father, A.C. Swartz. During the early part of his career, the younger Swartz worked at the firms Swartz & Son, Swartz, Hotchkin & Swartz, and finally Swartz & Swartz, participating mostly in the design of schools, commercial buildings and dwellings. In 1919, he and Fresno-based architect C.J. Ryland established a partnership. Over more than a decade of partnership, Swartz and Ryland designed a number of residential, commercial, and institutional properties in Northern and Central California (Historic Fresno 2010). Among the firm's notable commissions was Tracy community Memorial Hospital, whose plan, consisting of a hub and five radiating "spokes," drew national attention as an innovative concept (Fresno Bee 1968). After the dissolution of Swartz and Ryland's partnership in the 1930s, Swartz worked briefly with Allied Architects and W.D. Coates, before operating as a civilian architect for the United States Navy during World War II. After the war, he partnered with Hyberg, an arrangement lasting until around 1965 (Historic Fresno 2010). Upon Swartz's death in Fresno in 1968, the Fresno published an obituary citing his role in the design of "many of the most familiar public buildings in the San Joaquin Valley" (Fresno Bee 1968).

William G. Hyberg

Hyberg was bornin in Aurora, Illinois, in 1909 and moved to Southern California during his childhood. He graduated from the University of Southern California School of Architecture in 1934 and relocated to Fresno in 1945. The following year, he went into partnership with Swartz. Hyberg is credited with designing several buildings in Fresno, including the Fresno County Library, Elks Lodge, and Greyhound station. Shortly after Swartz's retirement in1965, Hyberg relocated to Hawaii. According to an obituary published in the Fresno Bee, while in Hawaii. Hyberg "[joined] a USC classmate in his business" (*Fresno Bee* 1995). Available sources do not identify the classmate or business and do not otherwise clarify the nature of Hyberg's professional life after the end of his partnership with Swatz. Hyberg died in 1995 (*Fresno Bee* 1995).

6.1.2 NRHP/CRHR Evaluation

Hazel M. Bailey Primary School is recommended ineligible for listing in the NRHP and CRHR due to a lack of historical and architectural significance.

The school was developed circa 1953 as a public elementary school as part of a Post-World War II-era expansion of facilities in what was then the Firebaugh Joint School District. However, available evidence suggests the subject school had a relatively ordinary history for a public school and played no part in any event important to educational development in Firebaugh, California, or the United States. And while the school was part of the Post-World War II-era growth of Firebaugh, research for this study did not suggest this was an important historical event or that the school might be significant in the context of any other event with importance to the city, region, state, or nation (Criterion A/1).

Roland A. Wilkie served as superintendent of the Firebaugh Joint School District at the time of the development of the present Hazel M. Bailey Primary School. As superintendent between 1951 and 1966 Wilkie led the district through a period of expansion that grew what was a one-school district to include a new junior high school and three new elementary schools, the subject school among

Firebaugh-Las Deltas Unified School District Hazel M. Bailey Primary School Expansion

them. However, although the development of new schools was certainly essential to the growth of Firebaugh after World War II, such development was commensurate with the development of schools statewide, and even nationwide, during the postwar Baby Boom Era. No available evidence indicates the activities of Firebaugh's district distinguished from those in other locales or that they would otherwise constitute a singularly significance historical contribution. Research for this study did not find that Narval Davis, James Roggero, Hazel M. Bailey, or any other individual have made significant contributions to local, regional, state, or national history that are directly associated with the subject school (Criterion B/2).

Architecturally, Hazel M. Bailey Primary School is a finger-plan-type school with elements of the Mid-Century Modern style of architecture. As such the property represents among the most common pairings of plan type and architectural style in public school design during the 1940s and 1950s. Research for this study did not find the building's plan represents any innovation related to, or other important departure from, the typical finger-plan school plan of its era. Additionally, while the property employs elements of the Mid-Century Modern style of architecture, such as a horizontal emphasis, lack of ornament, and broad overhanging eaves, the property's visual effect is that of a building designed to emphasize functionality rather than any stylistic expression, and the school is not an exceptionally good example of the style. The property's initial design was created by the firm Swartz and Hyberg, of which firm partner Fred Swartz is a well-regarded architect of public buildings in Fresno County and the wider San Joaquin Valley region, whose work contemporary with the subject property include the Fresno County Library and McLane High School, both of which are extant and are better examples of Mid Century Modern architecture. Based on the preceding analysis, the Bailey Primary School, including its individual buildings and the campus as a whole, does not embody the distinctive characteristics of a type, period or method of construction, or represent the work of a master, or possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction (Criterion C/3).

The built environment of the subject property is not likely to yield valuable information which will contribute to our understanding of human history because the property is not, and never was, the principal source of information pertaining to significant events, people, architectural style, or early to mid-20th century educational buildings (Criterion D/4).

In conclusion, Hazel M. Bailey Primary School is recommended ineligible for listing in the NRHP and CRHR due to a lack of historical and architectural significance and is not a historical resource as defined by CEQA Section 15064.5(a).

7 Impacts Analysis and Conclusions

The impact analysis included here is organized based on the cultural resources thresholds included in the *State CEQA Guidelines* Appendix G: Environmental Checklist Form:

- a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?
- b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?
- c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Threshold A broadly refers to historical resources. To more clearly differentiate between archaeological and built environment resources, we have chosen to limit analysis under Threshold A to built environment resources. Archaeological resources, including those that may be considered historical resources pursuant to Section 15064.5 and those that may be considered unique archaeological resources pursuant to Section 21083.2, are considered under Threshold B.

7.1 Historical Built Environment Resources

The field survey and background research identified one built environment historical resource in the project site, the Bailey Primary School. As detailed above in Section 6, the resource is ineligible for the NRHP/CRHR; the property therefore does not qualify as a historical resource as defined by CEQA Section 15064.5(a). As such, the project would result in *no impact to historical resources* pursuant to CEQA.

7.2 Historical and Unique Archaeological Resources

This study did not identify any archaeological resources or archaeological deposits in the project site. The lack of surface evidence of archaeological materials does not preclude their subsurface existence. However, the absence of substantial prehistoric or historic-period archaeological remains within the immediate vicinity, along with the existing level of disturbance in the project site, suggest there is a low potential for encountering intact subsurface archaeological deposits. Rincon presents the following recommended mitigation measure for unanticipated discoveries during construction. With adherence to this measure, Rincon recommends a finding of *less-than-significant impact with mitigation for archaeological resources* under CEQA.

7.2.1 Recommended Mitigation

Unanticipated Discovery of Cultural Resources

In the event that archaeological resources are encountered during ground-disturbing activities, work within 50 feet of the find shall halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for Archaeology (National Park Service 1983) shall be contacted immediately to evaluate the resource. If the resource is determined by the qualified archaeologist to be prehistoric, then a Native American representative shall also be contacted to

participate in the evaluation of the resource. If the qualified archaeologist and/or Native American representative determines it to be appropriate, archaeological testing for CRHR eligibility shall be completed. If the resource proves to be eligible for the CRHR and significant impacts to the resource cannot be avoided via project redesign, a qualified archaeologist shall prepare a data recovery plan tailored to the physical nature and characteristics of the resource, per the requirements of the California Code of Regulations (CCR) Guidelines Section 15126.4(b)(3)(C). The data recovery plan shall identify data recovery excavation methods, measurable objectives, and data thresholds to reduce any significant impacts to cultural resources related to the resource. Pursuant to the data recovery plan, the qualified archaeologist and Native American representative, as appropriate, shall recover and document the scientifically consequential information that justifies the resource's significance. The Firebaugh-Las Deltas Unified School District shall review and approve the treatment plan and archaeological testing as appropriate, and the resulting documentation shall be submitted to the regional repository of the CHRIS, pursuant to California Code of Regulations Guidelines Section 15126.4(b)(3)(C).

7.3 Human Remains

If human remains are found during ground disturbance, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be of Native American origin, the Coroner will notify the NAHC, which will determine and notify an MLD. The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance. With adherence to existing regulations, Rincon recommends a finding of *less-than-significant impact to human remains* under CEQA.

8 References

Alison, Charlie

2012 Maps of the Route. Butterfield Overland Mail Route: The First Transcontinental Mail System. https://butterfieldoverlandstage.com/category/maps/ (accessed May 2024).

Bancroft, Hubert Howe

1885 *History of California, Volume III: 1825-1840.* San Francisco, California: A.L. Bancroft & Co.

Barton, Amber, Maria Del Carmen Guzman, and Breeann Romo

2010 "The Preliminary Results of the 2008 Archaeological Investigations at the Bead Hill Site (KER-450), Buena Vista Lake, California." SCA Proceedings 24: 1–12.

Borejsza, Aleksander, Charles D. Frederick, Luis Morett Alatorre, and Arthur A. Joyce

Alluvial Stratigraphy and the Search for Preceramic Open-Air Sites in Highland Mesoamerica. Latin American Antiquity, Vol. 25, No. 3. 278–299.

Burns, Gregory, Susan Talcott, Kathryn Demps, Jason Edmonds, John Lambert, Andrew Tremayne, Jelmer Eerkens, and Eric Bartelink

2012 "Isotopic Evidence for Changing Residence Patterns through the Middle to Late Holocene in Central California." *SCA Proceedings* 26: 164–171.

California Office of Historic Preservation

- 2011 "California Register and National Register: A Comparison (for purposes of determining eligibility for the California Register)," California Office of Historic Preservation Technical Assistance Series #6. Department of Parks and Recreation, Sacramento, California
- 1995 Instructions for Recording Historical Resources. Department of Parks and Recreation, Sacramento, California.

Dallas, S.F.

"The Hide and Tallow Trade in Alta California 1822-1848." Ph.D. dissertation. Indiana University, Bloomington.

Dumke, Glenn S.

"The Boom of the 1880s in Southern California." *Southern California Quarterly* 76(1): 99–114.

Firebaugh, City of

2024 About. https://firebaugh.org/about/ (accessed May 2024).

Fredrickson, David A.

1973 "Early Cultural of the North Coast Ranges, California." Ph.D. dissertation, University of California, Davis.

Hazel M. Bailey Primary School Expansion

"Cultural Diversity in Early Central California: A View from the North Coast Ranges." *The Journal of California Anthropology* 1(1): 41–53.

Fresno Bee

- 1952a "Notice to Contractors." September 5, 1952. https://www.newspapers.com/image/701685658/?match=1&terms=%22firebaugh%20 school%20district%22 (accessed May 2024).
- 1952b "Firebaugh School Work Will Start." October 26, 1952. https://www.newspapers.com/image/701633327/?match=1&terms=%22parkside%20s chool%22 (accessed May 2024).
- 1952c "Work Starts on New School in Firebaugh Area." November 2, 1952. https://www.newspapers.com/image/701682304/?match=1&terms=%22parkside%20s chool%22 (accessed May 2024).
- 1954a "Notice to Contractors." January 29, 1954. https://www.newspapers.com/image/702145439/?match=1&terms=%22parkside%20s chool%22 (accessed May 2024).
- "Children's Needs on the West Side Will Be Studied." February 20, 1954. https://www.newspapers.com/image/701687280/?match=1&terms=%22parkside%20s chool%22 (accessed May 2024).
- "Notice to Contractors." December 12, 1958. https://www.newspapers.com/image/702203528/?match=1&terms=%22parkside%20school%22 (accessed June 2024).
- "Bonds, Tax Hike Gain Voter Okeh." March 27, 1963. https://www.newspapers.com/image/702448136/?match=1&terms=%22parkside%20school%22 (accessed June 2024).
- "Fred Swartz, Retired Fresno Architect, Dies." October 14, 1968. https://www.newspapers.com/image/703112828 (accessed May 2024).
- 1995 "Hyberg, William G. (Bill). November 14, 1995. https://www.newspapers.com/image/707071922/?article=878943e7-d431-465a-95f5-54cd289a0f44&terms=%22william%20g.%20hyberg%22 (accessed May 2024).

Google Earth

2024 Aerial images of the project site. Electronic resource accessed June 2024.

Gumprecht, Blake

1999 The Los Angeles River: Its Life, Death, and Possible Rebirth. Baltimore, Maryland: Johns Hopkins University Press.

Hattersley-Drayton, Karana

2013 "Garden of Eden: An Historic Context for Fresno's Fig Gardens." Prepared for the City of Fresno with funding from a Caltrans Community Based Transportation Planning Grant.

Helmich, Mary A.

2008 The Butterfield Overland Mail. Interpretation and Education Division, California State Parks.

https://www.parks.ca.gov/?page_id=25444#:~:text=John%20Butterfield%27s%20line%2 0followed%20the,It%20bypassed%20San%20Diego (accessed May 2024).

Historic Fresno

2010 "Fred L. Swartz (1885-1968)." https://historicfresno.org/bio/swartz.htm (accessed May 2024).

Hoover, Mildred Brooke, Hero Eugene Rensch, Ethel Grace, and William N. Abeloe

1966 Historic Spots in California. Stanford, California: Stanford University Press.

Kroeber, Alfred J.

1925 Handbook of the Indians of California. Bureau of American Ethnology, Bulletin 78.
Originally published 1925, Smithsonian Printing Office, Washington, D.C. Unabridged reprint 1976, Dover Publications, Inc. New York.

Kyle, Douglas E.

2002 Historic Spots in California. Stanford, California: Stanford University Press.

Livingston, M.M.

"The Earliest Spanish Land Grants in California." *Annual Publication of the Historical Society of Southern California* 9(3): 195–199.

Milliken, Randall, Laurence H. Shoup, and Beverly R. Ortiz

2009 "Ohlone/Costanoan Indians of the San Francisco Peninsula and their Neighbors, Yesterday and Today." *Government Documents and Publications, First Nations Era*, 6. California State University, Monterey Bay.

Mithun, Marianne

2001 *The Languages of Native North America.* Reprinted. Originally published 1999. Cambridge University Press, New York.

Moratto, Michael J.

1984 California Archaeology. Coyote Press, Salinas, California.

National Park Service

- 1983 Secretary of the Interior's Standards and Guidelines for Professional Qualifications in Archaeology and Historic Preservation. Department of the Interior.
- 1997 National Register Bulletin-How to Apply the National Register Criteria for Evaluation. https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf (accessed October 2022).

Hazel M. Bailey Primary School Expansion

Nationwide Environmental Title Research, LLC (NETR Online)

"HistoricAerials Viewer" [historical aerial photograph and topographical map online viewer]. Historical aerial photographs of the subject property and vicinity, 1946, 1955, 1957, 1981, 1998, 2005, 2009, 2010, 2012, 2014, 2016, 2018 and 2020. https://www.historicaerials.com/viewer (accessed May and June 2024).

Pacific Coast Architecture Database

2024 "Swartz and Hyberg, Architects (Partnership)." https://pcad.lib.washington.edu/firm/5339/ (accessed May 2024).

Panter, John

"Central California Colony: 'Marvel of the Desert.'" *Fresno Past and Present*. The Journal of the Fresno City and County Historical Society. Vol. 36, No.2.

Rosenthal, Jeffrey, Gregory White, and Mark Sutton

2007 "The Central Valley: A View from the Catbird's Seat." In *California Prehistory: Colonization, Culture, and Complexity*, edited by Terry L. Jones and Kathryn A. Klar, pp. 147–164. AltaMira Press, Lanham Maryland.

Santa Cruz Sentinel

2000 "Funerals: Roland A. Wilkie." August 23, 2000. https://www.newspapers.com/image/81119505/?article=cd83e63b-138b-4bdb-8234-75cd7fb969bb&terms=%22Roland%20A.%20Wilkie%22 (accessed June 6, 2024).

Sapphos Environmental

- 2009 City of Long Beach Historic Context Statement. Prepared for the City of Long Beach, Department of Development Services. July 10, 2009. Document on file at Rincon Consultants, Los Angeles, CA.
- 2014 Los Angeles Unified School District, Historic Context Statement, 1870 to 1969. Prepared for the Los Angeles Unified School District Office of Environmental Health and Safety. March 2014. Document on file at Rincon Consultants, Los Angeles, CA.

Sutton, Mark Q., Jill K. Gardner, Kenneth W. Gobalet, and Nancy Valente

2016 "Archaeological Investigations at the Manifold Site (CA-KER-4220), Buena Vista Lake, Southern San Joaquin Valley, California."

Thickens, Virginia E.

"Pioneer Agricultural Colonies of Fresno County." *California Historical Society Quarterly* 25, *no.* 1 (1946): 17–38. www.jstor.org/stable/25155951 (accessed April 2023).

United States Bureau of Land Management (BLM) General Land Office

Original *Survey Plat Image 3/15/1855*https://glorecords.blm.gov/details/survey/default.aspx?dm_id=316403&sid=vzfqxpwu.pl1#surveyDetailsTabIndex=0 (accessed June 2024).

United States Census

2024 QuickFacts: Firebaugh City, California. https://www.census.gov/quickfacts/fact/table/firebaughcitycalifornia/PST045223 (accessed May 2024).

United States Geological Survey (USGS)

- Firebaugh, CA Quadrangle. USGS Historical TopoView. https://ngmdb.usgs.gov/topoview/viewer/#13/34.9551/-120.4075 (accessed June 2024).
- 1946 Firebaugh, CA Quadrangle. USGS Historical TopoView. https://ngmdb.usgs.gov/topoview/viewer/#13/34.9551/-120.4075 (accessed June 2024).
- Firebaugh, CA Quadrangle. USGS Historical TopoView. https://ngmdb.usgs.gov/topoview/viewer/#13/34.9551/-120.4075 (accessed June 2024).

Wallace, William J.

"Southern Valley Yokuts." In "California," edited by Robert F. Heizer, pp. 448–461.

Handbook of North American Indians, Vol. 8, William C. Sturtevant, general editor,
Smithsonian Institution, Washington.

Wahrhaftig, Clyde, S.W. Stine, and N.K. Huber

1993 Quaternary Geologic Map of the San Francisco Bay 4 Degree x 6 Degree Quadrangle, United States. U.S. Geological Survey, Miscellaneous Investigations Series Map I-1420(NJ-10), scale 1:1,000,000.

Waters, Michael R.

1992 Principles of Geoarchaeology. Tucson: The University of Arizona Press.

Waugh, John C.

2003 On the Brink of Civil War: The Compromise of 1850 and How it Changed the Course of American History. Wilmington, Delaware: Scholarly Resources Inc.

University of California, Santa Barbara (UCSB)

- "FrameFinder" [historical aerial photograph online database]. Flight C_4650, Frame 57-11. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/ (accessed June 2024).
- "FrameFinder" [historical aerial photograph online database]. Flight CAS_1957, Frame Firebaugh. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/ (accessed May and June 2024).
- "FrameFinder" [historical aerial photograph online database]. Flight CAS_FRE, Frame 8-196, Frame Firebaugh. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/ (accessed May and June 2024).



California Historical Resources Information System Records Search Results





Fresno Kern Kings Madera Tulare **Southern San Joaquin Valley Information Center** California State University, Bakersfield

Mail Stop: 72 DOB 9001 Stockdale Highway Bakersfield, California 93311-1022

(661) 654-2289 E-mail: ssjvic@csub.edu Website: www.csub.edu/ssjvic

4/22/2024

Andrea Ogaz Rincon Consultants, Inc. 180 N. Ashwood Ave. Ventura, CA 93003

Re: 23-15573 Firebaugh - Las Deltas SD TK Classrooms

Records Search File No.: 24-177

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on Firebaugh USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.5 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: □ custom GIS maps ☒ GIS data

Resources within project area:	None		
Resources within 0.5 mile radius:	P-10-003930, 005795; P-20-002383; Informal: CHL 471, Firebaugh Ferry		
Reports within project area:	None		
Reports within 750 feet radius:	FR-00171, 00304, 01617, 01704, 01751, 01983, 01984, 02341, 02414;		
	MA-00971, 00972		

Resource Database Printout (list):	$oxed{\boxtimes}$ enclosed	\square not requested	\square nothing listed
Resource Database Printout (details):	\square enclosed	$oxed{\boxtimes}$ not requested	$\hfill\square$ nothing listed
Resource Digital Database Records:	\square enclosed	$oxed{\boxtimes}$ not requested	$\hfill\square$ nothing listed
Report Database Printout (list):	oxtimes enclosed	\square not requested	$\hfill\square$ nothing listed
Report Database Printout (details):	\square enclosed	$oxed{\boxtimes}$ not requested	$\hfill\square$ nothing listed
Report Digital Database Records:	\square enclosed	$oxed{\boxtimes}$ not requested	\square nothing listed
Resource Record Copies:	⊠ enclosed	\square not requested	\square nothing listed
Report Copies:	\square enclosed	\square not requested	$oxed{\boxtimes}$ nothing listed
OHP Built Environment Resources Directory:	\square enclosed	\square not requested	oxtimes nothing listed
Archaeological Determinations of Eligibility:	⊠ enclosed	\square not requested	\square nothing listed
CA Inventory of Historic Resources (1976):	\square enclosed	□ not requested	\square nothing listed

<u>Caltrans Bridge Survey:</u> Not available at SSJVIC; please see

https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

Ethnographic Information: Not available at SSJVIC

<u>Historical Literature:</u> Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see

http://historicalmaps.arcgis.com/usgs/

<u>Local Inventories:</u> Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see

 $\underline{http://www.glorecords.blm.gov/search/default.aspx\#searchTabIndex=0\&searchByTypeIndex=1} \ and/or \$

http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

Shipwreck Inventory: Not available at SSJVIC; please see

https://www.slc.ca.gov/shipwrecks/

Soil Survey Maps: Not available at SSJVIC; please see

http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation 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. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Jeremy E David

Assistant Coordinator

Report List

SSJVIC Record Search 24-177

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
FR-00171	Caltrans - 06-FRE-33 PM 64.1/69.4 CU 06250 EA 343530	1988	Kus, James S.	Negative Archaeological Survey Report 6-Fre- 33 P.M. 64.1/69.4 06250-343530	California Department of Transportation	
FR-00304	NADB-R - 1140605	1993	Bissonnette, Linda Dick	Cultural Resources Assessment for Andrew Firebaugh Park, City of Firebaugh, Fresno County	Cultural Resources Consulting	
FR-01617	Caltrans - EA 06- 343531	1999	Marine, Mandy	Negative Archaeological Survey Report - First Supplemental 6-Fre-33 P.M. 62.5/69.6 343531	State of California Department of Transportation, Distirct 06	
FR-01704	Caltrans - 06-FRE-33 PM 69.5/83.0 EA 06- 385500	2000	Marine, Mandy and Wallace, Sarah	Negative Archeological Survey Report for State Rout 33 A.C. Overlay and Culvert Replacement from Helm Canal Road to the Merced County Line (06-FRE-33; P.M. 69.4/83.0; E.A. 06-385500)	California Department of Transportation	
FR-01751		1989	Smith, Ephraim K., Brewer, Chris, and Powell, John Edward	Historical Architectural Survey Report for State Route 33 Road Widening 6-Fre-33-64.1/69.4, 06250-343530	CSU, Fresno; Brewer's Historical Consltants; Architecutral Historian & Restoration Consultant	
FR-01983		1998	Roper, Kristina C.	A Cultural Resources Survey for the Proposed Thirteenth Street Bridge Replacement City of Firebaugh, Fresno County, California	Sierra Valley Cultural Planning	
FR-01984		1999	Abeyta, Daniel	Historic Property Survey Report for the Thirteenth Street Bridge Replacement, Firebaugh, California, Fresno County	California Department of Transportation	
FR-02341	Submitter - Project Number: CGU0802	2008	Schoettler, Karl	Cultural and Paleontological Resources Study for the San Joaquin River Bank Repair Project	LSA Associates, Inc.	
FR-02414	Submitter - Contract No. 06A1106; Submitter - Expenditure Authorization No. 06- 0A7408	2010	Leach-Palm, Laura, Brandy, Paul, King, Jay, Mikkelson, Pat, Seil, Libby, Hartman, Lindsay, and Bradeen, Jill	Cultural Resources Inventory of Caltrans District 6 Rural Conventional Highways in Fresno, Western Kern, Kings, Madera, and Tulare Counties Summary of Methods and Findings	Far Western Anthrpological Research Group, Inc., Davis and JRP Historical Consulting, LLC, Davis	10-004703, 10-005795, 10-005796, 10-005797, 10-005809, 10-005810, 10-006207
MA-00971		1998	Roper, Kristina C.	A Cultural Resources Survey for the Proposed Thirteenth Street Bridge Replacement City of Firebaugh, Fresno County, California	Sierra Valley Cultural Planning	
MA-00972		1999	Abeyta, Daniel	Historic Property Survey Report for theThirteenth Street Bridge Replacement Firebaugh, California, Fresno County	California Department of Transportation	

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Resource List

SSJVIC Record Search 24-177

Primary No.	Trinomial	Other IDs	Туре	Age	Attribute codes	Recorded by	Reports
P-10-003930	CA-FRE-003109H	Resource Name - Southern Pacific Railroad	Structure	Historic	AH07; HP11	1998 (W.L. Norton, Jones & Stokes); 1999 (S. Hooper, S. Flint, Applied EarthWorks, Inc.); 2002 (Peggy B. Murphy, Three Girls and a Shovel); 2004 (Bryan Larson, Cindy Toffelmier, JRP Historical Consulting); 2009 (Joseph Freeman, Rebecca Flores, JRP Historical Consulting); 2010 (Michael Hibma, LSA Associates); 2013 (Randy Baloian, Applied Earthworks, Inc.); 2015 (Randy Baloian, Applied EarthWorks, Inc.); 2015 (Randy Baloian, Applied Earthworks, Inc.); 2016 (J. Tibbet, Applied EarthWorks, Inc.); 2018 (Annie McCausland, Applied EarthWorks, Inc.); 2018 (Jessica Jones, Applied EarthWorks, Inc.); 2021 (Morgan Bird, SWCA Environmental Consultants)	FR-00238, FR- 01770, FR-01771, FR-01772, FR- 02642, FR-02726, FR-02769, FR- 02847, FR-02942, FR-03037, FR-03103
P-10-005795	CA-FRE-003514H	Resource Name - JFR-150; Resource Name - Main Canal	Structure	Historic	HP20	1995 (Richard S. Levy, Dept. of Transportation); 2009 (Joseph Freeman, Jarma Jones, JRP Historical Consulting, LLC.); 2010 (Toni Webb, Steven J. Melvin, JRP Historical Consulting, LLC)	FR-02414, FR-03132

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Resource List

SSJVIC Record Search 24-177

Primary No.	Trinomial	Other IDs	Туре	Age	Attribute codes	Recorded by	Reports
P-20-002383	CA-MAD-002920H	Resource Name - Columbia Canal; OTIS Resource Number - 684751; Other - JSA-Cultural-4	Site	Historic	HP20	2000 (Gabriel Roark, Tina Pitsenberger, Maggie Craw, Jones & Stokes); 2010 (Toni Webb and Steven J. Melvin, JRP Historical Consulting, LLC); 2019 (Michelle van Meter, JRP Historical Consulting, LLC); 2019 (A. Younie (FW), M. Van Meter (JRP), Far Western Anthropological Research Group, Inc., & JRP Historical Consulting, LLC); 2019 (A. Younie (FW), M. Van Meter (JRP), Far Western Anthropological Research Group, Inc., & JRP Historical Consulting, LLC); 2022 (R. Azpitarte, M. Silva, B. Sandford, A. Travis, ASM Affiliates, Inc.)	MA-00915, MA- 01367, MA-01369, MA-01372, MA- 01375

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CALIFORNIA OHP * ARCHEOLOGICAL DETERMINATIONS OF ELIGIBILITY * FRESNO COUNTY * 11:25:45 12-18-12 PAGE 40
SITE-NUMBER. PRIMARY-NUM NRS EVL-DATE PROGRAM REF. ... EVAL OTHER NAMES AND NUMBERS ....
FRE-001646 10-001646 6Y 07/30/96 USFS960617X
                                                              SGPR FS# 05-15-54-0429
FRE-001671 10-001671 2S 04/17/85 65007370
                                                               KPNP DRY CREEK ONE
                                                                    PF-TS-4
             10-001680
                          6Y 02/20/86 FERC820607a
FRE-001680
            10-001684
                                                               GRDR 12-22-82-1
FRE-001684
                          6Y 10/05/94 FHWA921218B
FRE-001691 10-001691 2S2 07/01/87 ADOE-10-87-003-00 NDPR RBF-TS-11
                           2 07/01/87 COE841203C
FRE-001693 10-001693 2S2 07/01/87 ADOE-10-87-004-00 NDPR RBF-TS-1
                           2 07/01/87 COE841203C
FRE-001734 10-001734 2S2 07/02/07 USFS050422A
                                                               WEPR FS# 05-15-54-0479
FRE-001776H 10-001776 7 06/11/90 USFS900611C
FRE-001807H 10-001807 6Y 06/09/87 USFS870408B
                                                              RJPR FS# 05-15-53-0832
                                                                   FS# 05-13-51-0019, THE BOO
FRE-001811H 10-001811 6Y 06/09/87 USFS870408A
                                                                  FS# 05-13-51-0127, STUMP MEADOW LOGGING SITE
FRE-001829H 10-001829 6Y 10/05/94 ADOE-10-94-001-00
                                                                   RRF-TS TV
                           6Y 10/05/94 FHWA921218B GRPR
FRE-001835 10-001835 7 06/11/90 USFS900611C
                                                              RJPR FS# 05-15-53-0354
FRE-001842 10-001842 7 06/11/90 USFS900611C
                                                              RJPR FS# 05-15-53-0355
FRE-001849 10-001849 6Y 02/20/86 FERC820607a
FRE-001894H 10-001894 6Y2 08/08/11 FERC110708A
                                                                    FS# 05-15-53-0412, YMCA MEADOW
                                                              ABPR FS# 05-15-54-0687, KELLER RANCH
                           6Y 11/12/97 ADOE-10-97-002-00 CCPR HKB-1
                           6Y 11/12/97 USFS970923C
                                                              CCPR
FRE-001895 10-001895 6Y 02/01/86 FERC820507a
FRE-001963 10-001963 6Y 07/02/07 USFS050422A
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FRE-001964 H 10-001964 2S2 07/02/07 USFS050422A WEPR FS# 05-15-54-0651 FRE-001968 10-001968 6Y 07/02/07 USFS050422A WEPR FS# 05-15-54-0655 FRE-001969 10-001969 6Y 07/02/07 USFS050422A WEPR FS# 05-15-54-0655 FRE-001969 10-001969 6Y 07/02/07 USFS050422A WEPR FS# 05-15-54-06663
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FRE-001970 10-001970 6Y 07/02/07 USFS050422A
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FRE-002016H 10-002016 6Y 12/28/06 USFS051118G
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                                                              CFPR FS# 05-15-53-0422
                                                              CFPR FS# 05-15-53-0423
FRE-002037 10-002037 2 12/14/89 USFS891127J
FRE-002038H 10-002038 6Y2 06/08/12 USFS120411C
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                                                               TPPR FS# 05-15-53-0517, DOWVILLE DAY USE PICNIC AREA
FRE-002039 10-002039 6Y 12/14/89 USFS891127J
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                           6Y 10/01/96 FERC941123A
                                                               GRPR
FRE-002244 10-002244
                           1S 03/12/03 NPS-03000117-0000 KPNP BIRDWELL ROCK PETROGYPH SITE, COALARG NO. 1
                           3S 11/21/02 10-0015
FRE-002344H 10-002344
                          6Y 12/21/89 USFS891120A
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FRE-002345H 10-002345 6Y 12/21/89 USFS891120A
                                                                    FS# 05-13-51-0215, BABYFACE
                                                                     HUME LK
FRE-002346H 10-002346 6Y 12/21/89 USFS891120A
                                                                    FS# 05-13-52-0216, DUTCH BOY
                                                                     HUME LK
FRE-002413 10-002413 7 06/11/90 USFS900611C
                                                               RJPR AUBERRY
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10-002437 7 06/11/90 USFS900611C
FRE-002414
                                                               RJPR
FRE-002437
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                                                               GRPR
                           6Y 10/05/94 FHWA921218B
FRE-002905H 10-002905
                                                               GRPR ACADEMY POST OFFICE
                                                                     SR168-1
FRE-002928H
                           6Y2 04/11/11 USFS110307A
                                                              J2PR FS# 05-15-53-1040, CAMP 71
FRE-002930H
                           6Y2 04/11/11 USFS110307A
                                                               J2PR FS# 05-15-53-1048
FRE-003018H 10-003029
                          6Y 04/03/97 FHWA960805A
                                                               GRPR
FRE-003026H 10-003037
                           6Y 06/16/98 ADOE-10-98-001-00 JWPR OILFIELD DUMP
                           6Y 06/16/98 FHWA980522B
                                                               JWPR 10-3037H
FRE-003088
                           6Y 06/12/03 ADOE-10-03-001-000 CCPR
                           6Y 06/12/03 FHWA030428A
                                                              CCPR
                           7J 11/11/09 COE090506A
FRE-003109H
                                                               WEPR SEGMENT OF SAN JOAQUIN VALLEY RAILROAD/POLLASKY GRADE
                           6Y
                                05/12/09 COE090506A
                           6Y 09/04/02 ADOE-10-02-001-000 MMPR SAN JOAQUIN VALLEY RAILROAD TURNTABLE SITE
FRE-003136
                           6Y 09/04/02 FHWA011206A
                                                               MMPR
FRE-003137
                           6Y
                               09/04/02 ADOE-10-02-002-000 MMPR COMMERCIAL BLDG SITE
                           6Y 09/04/02 FHWA011206A
                                                               MMPR
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Native American Heritage Commission Sacred Lands File Search Results



NATIVE AMERICAN HERITAGE COMMISSION

April 12, 2024

Andrea Ogaz Rincon Consultants, Inc.

Chairperson **Reginald Pagaling** Chumash

Via Email to: aogaz@rinconconsultants.com

VICE-CHAIRPERSON **Buffy McQuillen** Yokayo Pomo, Yuki, Nomlaki

Re: 23-15573 Firebaugh - Las Deltas SD Project, Fresno County

SECRETARY Sara Dutschke Miwok

Dear Ms. Ogaz:

Parliamentarian Wayne Nelson Luiseño

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were <u>negative</u>. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Commissioner Isaac Bojorquez Ohlone-Costanoan

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

COMMISSIONER Stanley Rodriguez Kumeyaay

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

COMMISSIONER Laurena Bolden Serrano

If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

COMMISSIONER **Reid Milanovich** Cahuilla

Sincerely,

COMMISSIONER

Vacant

Cameron Vela Cultural Resources Analyst

ameron Vola

EXECUTIVE SECRETARY Raymond C. Hitchcock

Attachment

Miwok, Nisenan

NAHC HEADQUARTERS

1550 Harbor Boulevard Suite 100 West Sacramento, California 95691 (916) 373-3710 nahc@nahc.ca.gov NAHC.ca.gov

Native American Heritage Commission Native American Contact List Fresno County 4/12/2024

County	Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Fresno	Amah Mutsun Tribal Band	N		P.O. Box 5272 Galt, CA, 95632	(916) 743-5833		vjltestingcenter@aol.com	Costanoan Northern Valley Yokut	Alameda, Calaveras, Contra Costa, Fresno, Madera, Mariposa, Merced, Monte rey, San Benito, San Francisco, San	7/20/2023
	Amah Mutsun Tribal Band	N	Ed Ketchum, Vice-Chairperson		(530) 578-3864		aerieways@aol.com	Costanoan Northern Valley Yokut	Alameda, Calaveras, Contra Costa, Fresno, Madera, Mariposa, Merced, Monte	7/20/2023
	Kitanemuk & Yowlumne Tejon Indians	N		115 Radio Street Bakersfield, CA, 93305	(626) 339-6785		2deedominguez@gmail.com	Kitanemuk Southern Valley Yokut	Fresno,Kern,Kings,Los Angeles,Madera,Monterey,San Benito,San Luis Obispo,Tulare	
	North Fork Rancheria of Mono Indians	F	Fred Beihn, Chairperson	P.O. Box 929 North Fork, CA, 93643	(559) 877-2461	(559) 877-2467	fbeihn@nfr-nsn.gov	Mono	Fresno,Inyo,Madera,Mariposa,Merced,Mono,T uolumne	6/26/2023
	North Fork Rancheria of Mono Indians	F	Mary Stalter, Environmental/Heritage Manager	P.O. Box 929 North Fork, CA, 93643	(559) 877-2461		mstalter@nfr-nsn.gov	Mono	Fresno,Inyo,Madera,Mariposa,Merced,Mono,Tuolumne	6/26/2023
	Northern Valley Yokut / Ohlone Tribe	N	Timothy Perez, Tribal Compliance Officer	P.O. Box 717 Linden, CA, 95236	(209) 662-2788		huskanam@gmail.com	Costanoan Northern Valley Yokut	Alameda, Calaveras, Contra Costa, Fresno, Madera, Mariposa, Merced, Sacra mento, San Benito, San Joaquin, Santa	11/21/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F		P.O. Box 8 Lemoore, CA, 93245	(559) 633-3440		smccarty@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno, Kern, Kings, Merced, Monterey, San Benito, San Luis Obispo, Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F		P.O. Box 8 Lemoore, CA, 93245	(559) 924-1278		nescalone@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced,Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F		P.O. Box 8 Lemoore, CA, 93245	(559) 423-3900		spowers@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced,Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Southern Sierra Miwuk Nation	N		P.O. Box 186 Mariposa, CA, 95338	(559) 580-7871		sandra47roy@gmail.com	Miwok Northern Valley Yokut Pajute	Calaveras,Fresno,Madera,Mariposa,Merced,M ono,San Joaquin,Stanislaus,Tuolumne	2/1/2024
	Southern Sierra Miwuk Nation	N		P.O. Box 186 Mariposa, CA, 95338	(209) 742-3104		preservation@southernsierramiw uknation.org	Miwok Northern Valley Yokut Paiute	Calaveras,Fresno,Madera,Mariposa,Merced,M ono,San Joaquin,Stanislaus,Tuolumne	2/1/2024
	Table Mountain Rancheria	F		P.O. Box 410 Friant, CA, 93626	(559) 325-0351	(559) 325-0394	rpennell@tmr.org	Yokut	Fresno,Kern,Kings,Madera,Monterey,San Benito,San Luis Obispo,Tulare	
	Table Mountain Rancheria	F		P.O. Box 410 Friant, CA, 93626	(559) 822-2587	(559) 822-2693	mhcordova@tmr.org	Yokut	Fresno,Kern,Kings,Madera,Monterey,San Benito,San Luis Obispo,Tulare	12/21/2023
	Tule River Indian Tribe	F		P.O. Box 589 Porterville, CA, 93258	(559) 781-4271	(559) 781-4610	neil.peyron@tulerivertribe- nsn.gov	Yokut	Alameda,Amador,Calaveras,Contra Costa,Fresno,Inyo,Kern,Kings,Madera,Maripos a,Merced,Monterey,Sacramento,San	
	Tule River Indian Tribe	F		P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	joey.garfield@tulerivertribe- nsn.gov	Yokut	Alameda, Amador, Calaveras, Contra Costa, Fresno, Inyo, Kern, Kings, Madera, Maripos a, Merced, Monterey, Sacramento, San	7/22/2016
	Tule River Indian Tribe	F		P. O. Box 589 Porterville, CA, 93258	(559) 783-8892	(559) 783-8932	kerri.vera@tulerivertribe-nsn.gov	Yokut	Alameda, Amador, Calaveras, Contra Costa, Fresno, Inyo, Kern, Kings, Madera, Maripos a, Merced, Monterey, Sacramento, San	7/22/2016
	Wuksachi Indian Tribe/Eshom Valley Band	N	Kenneth Woodrow, Chairperson	1179 Rock Haven Ct. Salinas, CA, 93906	(831) 443-9702		kwood8934@aol.com	Foothill Yokut Mono	Alameda, Calaveras, Contra Costa, Fresno, Inyo, Kings, Madera, Marin, Maripo sa, Merced, Mono, Monterey, San Benito, San	6/19/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed 23-15573 Firebaugh - Las Deltas SD Project, Fresno County.

tecord: PROJ-2024-002001 Report Type: List of Tribes Counties: Fresno NAHC Group: All



California Department of Parks and Recreation 523 Forms

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # HRI # Trinomial

NRHP Status Code 6Z

Other Listings

Review Code

Reviewer Date

Page 1 **of** 16

*Resource Name or #: Hazel M. Bailey Primary School

P1. Other Identifier: Parkside Elementary School

***P2.** Location: ⊠ Unrestricted

*a. County Fresno and

- *b. USGS 7.5' Quad Firebaugh, Calif. Date 1956 T 12S; R 14E; NE ¼ of W ¼ of Sec 28 M.D.B.M
- c. Address 1691 Q Street City Firebaugh Zip 93622
- d. UTM: Zone 10S, 727431 mE/81859 mN
- e. Other Locational Data: Northwest portion of APN 00802063

*P3a. Description:

The Hazel M. Bailey Primary School is a multiple-building public educational property on an irregular parcel located in the southeastern region of Firebaugh, immediately to the south of Dunkle Park and immediately to the southwest of the San Joaquin River. The property is located along the east side of Q Street, north side of Saipan Avenue, and the south corner of Dunkle Park. These parcels contain a surface parking lot and landscaped area associated with the Bailey Primary School. Components of the subject property include Bailey Primary School, Bailey Preschool, and the Fresno Economic Opportunities Commission Head Start Firebaugh facility. The property shares a parcel with Dunkle Park to the north, Firebaugh Middle School to the southwest, and a Firebaugh-Las Deltas School District operation facility to the south; however, only the primary school, preschool, and Head Start facility are evaluated in this study due to their shared developmental history. *See continuation sheet*.

*P3b. Resource Attributes: HP15. Education Building

*P4. Resources Present: ⊠ Building

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo:

Photo 1: Hazel M. Bailey Primary School Multi-Purpose Building, wet and south elevations

P6. Date Constructed/Age and Source:

☒ HistoricCirca 1953 (Fresno Bee 1952c)

*P7. Owner and Address:

Firebaugh-Las Deltas Unified School District 1976 Morris Kyle Drive Firebaugh, CA 93622

*P8. Recorded by:

Courtney Montgomery Rincon Consultants, Inc. 7080 North Whitney Avenue, Ste. 101 Fresno, California 93720

*P9. Date Recorded:

May 22, 2024

*P10. Survey Type: Intensive Pedestrian

*P11. Report Citation:

Johnson, Catherine, James Williams, Alyssa Newcomb, Andrea Ogaz, and Margo Nayyar. 2024. Hazel M Bailey Primary School Expansion Cultural Resources Technical Report, Firebaugh, Fresno County, California. Rincon Consultants Project No. 23-15573. Report on file at the Southern San Joaquin Valley Information Center, Sonoma State University, California

*Attachments:

Location Map

Continuation Sheet

Building, Structure, and Object Record

DPR 523A *Required information

State of California - The Resources Agency DEPARTMENT OF PARKS AND RECREATION

Primary #

HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

Page 2 **of** 16

*NRHP Status Code 6Z

*Resource Name or #: Hazel M. Bailey Primary School

B1. Historic Name: Parkside Elementary SchoolB2. Common Name: Hazel M. Bailey Primary School

B3. Original Use: Public schoolB4. Present Use: Public school

*B5. Architectural Style: Mid-Century Modern

*B6. Construction History:

Based on a review of historical newspaper articles and aerial photographs, the subject school was developed circa 1953 and originally consisted of the multipurpose, utility, and administrative buildings, in addition to the three original classroom wings (Fresno Bee 1952c; NETR Online 2024). Circa 1959 the swimming pool (not extant) and standalone restroom building were developed (*Fresno Bee* 1958; NETR Online 2024). The northernmost classroom wing was added to the campus circa 1964 (*Fresno Bee* 1963; UCSB 1965). Portable buildings were installed in several locations between circa 1981 and circa 2005 (NETR Online 2024). The detached classroom building east of the original school was constructed circa 2005, while the permanent building for the Fresno Economic Opportunities Commission Head Start Firebaugh was constructed circa 2009 (NETR Online 2024). Visual observation indicates alterations to the mid-twentieth-century school buildings are primarily limited to the replacement of windows with modern vinyl sashes and reconfiguration of window openings.

*B7. Moved? ⊠No

*B8. Related Features: N/A

B9a. Architect: Swartz and Hyberg, Architects b. Builder: Coast Wide Construction

*B10. Significance: Theme Education Area: Firebaugh

Period of Significance ca. 1953 Property Type Public school Applicable Criteria N/A

The subject resource is Hazel M. Bailey Primary School, a public elementary school constructed circa 1953 and subsequently augmented to include the Hazel M. Bailey Preschool and Fresno Economic Opportunities Commission Head Start Firebaugh facilities. It is recommended ineligible for listing in the National Register of historic Places (NRHP) and California Register of Historical Resources (CRHR) due to a lack of historical and architectural significance.

See continuation sheet.

B11. Additional Resource Attributes: N/A

*B12. References: See continuation sheet.

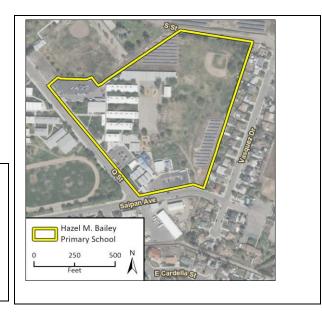
B13. Remarks:

*B14. Evaluator:

James Williams, Rincon Consultants Rincon Consultants, Inc. 7080 North Whitney Avenue, Ste. 101 Fresno, California 93720

*Date of Evaluation: June 7, 2024

(This space reserved for official comments.)



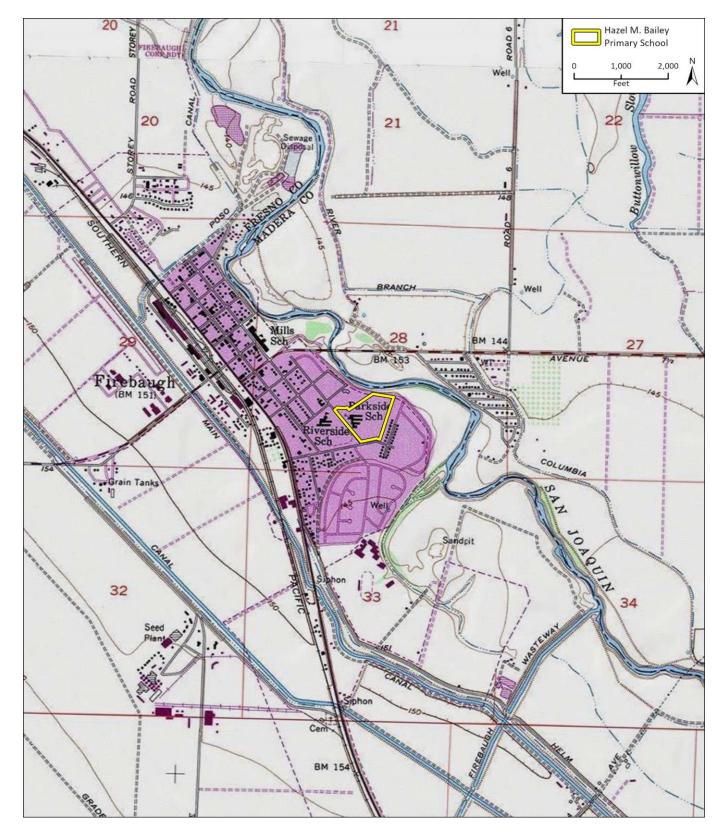
DPR 523B *Required information

Page 3 of 16

*Map Name: Firebaugh, CA

***Scale:** 1:24,000

*Resource Name or # Hazel M. Bailey Primary School *Date of map: 1956



State of California - The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

Primary# HRI # Trinomial

***Date:** 5/22/2024

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*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

P3a. Description (continued):

Hazel M. Bailey Primary School

The Bailey Primary School centers on a finger-plan school composed of four, one-story classroom wings and a kindergarten classroom that extend roughly east from the two-story multipurpose building on the west side of the complex. The utility building is situated to the immediate south of the administration building, paralleling the long, covered walkway that connects the various wings along a roughly north-to-south axis. Each of these buildings has a concrete slab foundation, wood-frame and a smooth stucco exterior. Roofs are moderately pitched gable roof with short overhangs; however, exceptions are noted below. Fenestration consists mostly of two-light rectangular windows arranged, typically with non-original vinyl sashes along the long north and south façades.

The multipurpose building is the focal point of the complex, and the wider campus, due to its proximity to the right-of-way and its height and scale, which out-measures all other buildings in the complex (Error! Reference source not found.). It has an irregular form and plan, characterized by a larger, gabled central mass and a lower-profile, flat-roof utility area that projects from the north elevation. Entrances are on the north, south, and east elevations and are characterized by solid wood doors, in some cases accessed via straight concrete stairs. Moderate overhangs on the north and south eave ends shelter bands of tripartite vinyl-sash window groupings, which located at the clerestory level and embedded in a wood surround. Entrances feature metal framed sidelights and transoms, typically with large plate glass. Flush steel doors in single and double configurations are found throughout the facility. Exposed climate control equipment and other mechanical features are located adjacent to the north and south of the building.

Adjacent to the multipurpose building is the utility building, which extends perpendicularly to the south (Error! Reference source not found.). A low-rise, pent-roof form, it features a ribbon of six non-original vinyl windows spaced by wood muntins. To the north of the windows is the main school entrance, which consists of solid wood doors surrounded by a system of wood lights. The west-facing entrance opens directly into the school's central corridor. Additional entrances to the administrative building feature solid wood doors, including those to the restrooms.

The classroom wings are generally consistent in design, though there are minor differences between the wings completed with the school's original construction and northernmost wing, which was completed as an addition circa 1964. All four one-story, rectangular-plan, gabled roof wings extend east from the central corridor. Concrete walkways trace the south eave sides of the wings, sheltered by a wide roof overhang with steel pole supports and a wood *brise soleil* (Error! Reference source not found.). Entrances are also located on the south elevations and feature solid wood door. Located at the clerestory level, south elevation windows and feature groupings of three non-original vinyl sashes. North elevation windows are a grouped in threes, generally situated within and near the bottom of a large wood frame, suggesting there were originally larger banks of windows at these locations (Error! Reference source not found.). The crica-1964 wing generally shares the characteristics of the original wings but is differentiated principally by a broad gable end overhang which shelters restroom entrances at the east end of the wing (Error! Reference source not found.).

The southernmost wing, constructed as part of the school's original development, is used as administrative offices. The one-story building presents as a relatively short classroom wing and rises from a rectangular plan to culminate in a gabled roof. Similar to the other wings, it is stucco clad, with entrances located on the south elevations, sheltered by a board overhang with steel pole supports. Stuccoed partial walls support the far ends of the overhang.

Portable classroom buildings (installed between circa 1998 and circa 2005) are situated in a linear group of thirteen to the north of the main classroom wings, and in a group of six to the southeast of the classroom wings. These modular buildings feature exteriors finished with T1-11 or similar pressed-wood siding exteriors, accessible entrance ramps with metal railings, single-entry flush-steel doors, tripartite aluminum windows, and nearly flat gable roofs with moderate overhangs.

The detached classroom building was completed circa 2005. The building, which exhibits no discernible architectural style, is one story in height, rectangular in plan and capped with a side-gabled roof, whose west eave extends broadly to shelter the front of the building. Its exterior is stuccoed and punctuated by a series of glazed wood doors and metal-sash windows.

Hazel M. Bailey Preschool

The Hazel M. Bailey Preschool is located at the south end of the property near the intersection of Q Street and Saipan Avenue. It consists of eight portable classrooms and a standalone restroom building. The one-story restroom building, constructed circa 1959, is generally rectangular in plan and capped with a flat roof with broad overhangs on the south elevation. Its exterior is of stack-bond brick construction. A recessed entry area features separate boys' and girls' entrances, aluminum-sash clerestory windows, and non-original drinking fountains. Its brick pattern and broad roof overhang suggest the minimal influence of the Mid-Century Modern architectural style.

The portable buildings, installed between circa 1981 and circa 2005, are generally similar in design and construction to those elsewhere on the campus, as described above.

State of California - The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

Primary# HRI # Trinomial

*Date: 5/22/2024

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*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Fresno Economic Opportunities Commission Head Start Firebaugh

The Fresno Economic Opportunities Commission Head Start Firebaugh is an educational facility occupying a portion of the south end of the Bailey Primary School Campus, immediately east of the Bailey Preschool. Constructed circa 2009, it consists of a classroom building of no discernible architectural style and a playground with a shade structure.

Site Features

Outside the building footprints, the subject property features several landscaped and hardscaped areas. Large lawns with mature trees occupy areas south and west of the multipurpose building and at the east side of the campus. The east lawn is used as a play area and is, accordingly, relatively large and outfitted with play equipment and a baseball diamond, in addition to two non-original solar arrays installed circa 2012. Smaller landscaped areas are interspersed among the property's buildings and generally feature grass, trees and shrubs. Hardscaping includes three parking lots, generally on the south and west ends of the property, and a large, paved playground immediately east of the classroom wings. Elsewhere exterior walkways and smaller play or assembly areas are paved in concrete.

For more information pertaining to the site plan of Bailey Primary School, please see the site figure on the next page.

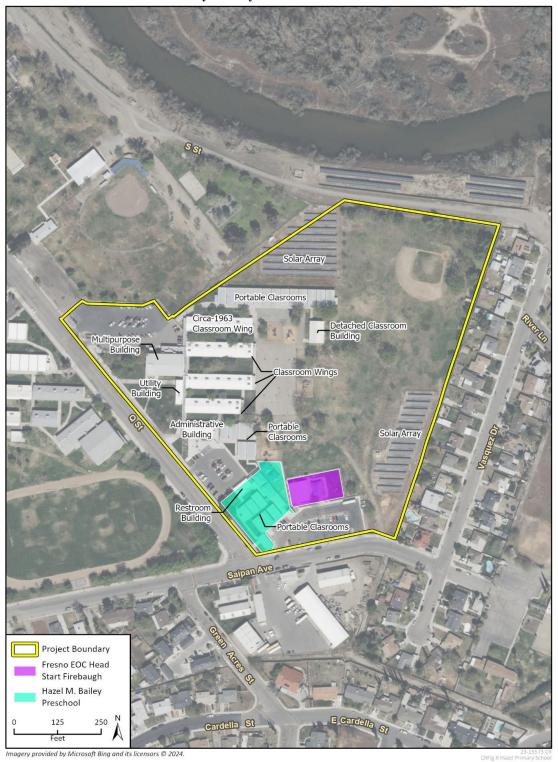
Page 6 of 16

*Resource Name or # Hazel M. Bailey Primary School

***Date**: 5/22/2024 ⊠ Continuation

Built Environment Features of Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.



CONTINUATION SHEET

Primary# HRI # Trinomial

Page 7 of 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Photograph 1. Utility Building, South and West Elevations.



Photograph 2. Representative View of Original Classroom Wing, South Elevation.



CONTINUATION SHEET

Primary# HRI

Trinomial

Page 8 **of** 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Photograph 3. Representative View of Original Classroom Wing, South Elevation.



Photograph 4. 1964 Classroom Wing, North and East Elevations.



CONTINUATION SHEET

Primary# HRI

Trinomial

Page 9 **of** 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Photograph 5. Administrative Offices, South and East Elevations.



Photograph 6. Representative View of North Portable Classroom Cluster. South Elevations.



Primary# HRI

Trinomial

Page 10 of 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Photograph 7. Representative View of South Portable Classroom Cluster, North and East Elevations.



Photograph 8. Detached Classroom Building, South and West Elevations.



Primary# HRI # Trinomial

CONTINUATION SHEET

Page 11 of 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

Photograph 9. Preschool Restroom Building, South and East Elevations.



Photograph 10. Representative View of Preschool Portable Classrooms.



State of California - The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

Primary# HRI # Trinomial

Page 12 of 16

*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

***Date**: 5/22/2024 ⊠ Continuation

B10. Significance (continued):

Circa 1951, the Firebaugh Joint School District purchased the 20-acre tract of former farmland on which the present-day Hazel M. Bailey Primary and other district facilities are located (*Fresno Bee* 1952c). Development of the school was part of a wider school expansion led by district superintendent Roland A. Wilkie, who at the start of his fifteen-year tenure, helmed one-school district. The expansion began shortly after Wilkie assumed his position as superintendent in 1951 and included the development of a junior high school and three elementary schools; among these schools were the subject school and the neighboring Riverside Elementary School, presently the Firebaugh Middle School (*Santa Cruz Sentinel* 2000).

By the summer of 1952, the architecture practice of Fred L. Swartz and William G. Hyberg produced designs for the school, and the district began soliciting proposals from contractors to construct the campus per Swartz and Hyberg's plans (*Fresno Bee* 1952a). Originally named Parkside Elementary School the campus design featured 14 classrooms, two kindergarten classrooms, a combined administrative and health unit, and a multipurpose room. General contractor Coast Wide Construction Company of Stockton won the construction contract valued at nearly \$500,000 in October 1952 (*Fresno Bee* 1952b). Around that time district officials, including superintendent Roland A. Willkie, trustee Narval Davis, and clerk James Roggero, attended a groundbreaking ceremony at the site. Construction was expected to be complete around the beginning of the 1953-1954 school year, though the school's precise date of completion could not be identified (*Fresno Bee* 1952c). In 1954, the district issued a request for contractors to develop the school's playground and an unspecified "earthwork" (*Fresno Bee* 1954a).

The earliest graphic evidence of the school is an aerial photograph taken in 1955, which shows the school as a five-unit complex designed on a finger plan (NETR Online 2024). Consistent with the finger-plan typology, the school consisted of a relatively large multi-purpose room building on the east side of the complex with four wings, or fingers, of varying size extending to the east. The wings, which housed classrooms and the administrative and nursing units, were linked to each other and the multi-purpose building by a central exterior walkway, which was likely sheltered by the existing canopies or similar structures (NETR Online 2024). Below, an aerial photograph taken in 1957 shows the subject school in its original form (UCSB 1957).

The first expansions of the campus were made in the 1950s and 1960s. A classified advertisement published on December 12, 1958 called for proposals from contractors to develop a swimming pool and combined restroom and shower building (*Fresno Bee* 1958). Approximately three years later, local voters approved a \$350,000 bond to finance improvements at the two subject schools. Among the improvements slated to be constructed with the bond funds was northernmost classroom wing (*Fresno Bee* 1963). A review of historical aerial photographs shows both buildings were in place by 1965, with the new classrooms constructed as the building's extant northernmost wing and the swimming pool (which is no longer extant) and restroom/shower building (extant) at the south end of the campus, in the present location (UCSB 1965)



1957 Aerial Photograph of Bailey Primary School (UCSB 1957)

State of California - The Resources Agency DEPARTMENT OF PARKS AND RECREATION CONTINUATION SHEET

Primary# HRI # Trinomial

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*Resource Name or # Hazel M. Bailey Primary School

*Recorded by: Courtney Montgomery, Rincon Consultants, Inc.

***Date**: 5/22/2024 ⊠ Continuation





In 1976, the subject school came under the jurisdiction of the Firebaugh-Las Deltas Unified School District, which was established by voters in the service areas of the Firebaugh and Las Deltas school districts to pool resources for the development and operation of a new high school. A June 28, 1980 *Fresno Bee* article announced that Parkside Elementary would soon be renamed to honor Hazel M. Bailey, a teacher who has given 31 years of 'unequalled dedication and devotion' to her pupils and will have a school named after her' (*Fresno Bee* 1980). No available sources indicate that Bailey ever taught at the subject school.

Since the early 1980s, there have been several changes to the property. A number of portable classroom buildings were constructed to augment the subject school and were completed in phases between 1981 and 2005. Circa 1998, development of what became the Bailey Preschool began at the former site of the swimming pool, at the southern end of the property. While the restroom/shower building remains as part of the preschool, the pool has been filled or removed to accommodate the installation of portable classroom buildings. This work was completed in the early twenty-first century. The Fresno Economic Opportunities Commission Head Start Firebaugh dates to around the same time and was completed in 2009 (NETR Online 2024).

Trends in School Plan Development

In the early years of school development in the United States, the most typical building type for educational facilities was a wood-frame, one-room schoolhouse. Rapid urbanization throughout the United States in the early twentieth century required a new approach. Public schools began separating students into grades with separate classrooms for each level. The new building typology tended to be rectangular, with high ceilings for large windows, and standardized furniture. The Progressive Education Movement, reflective of the Progressive Era (1890s – 1920s), began to appear in school design. With a new emphasis on health and safety, schools were designed with improved heating systems, ventilation, and sanitation. At the same time, the school design became more monumental and included secondary spaces including gymnasiums and playgrounds but were generally designed with a double-loaded corridor, characterized by classrooms on either side.

Following World War II, and the rapid growth of communities, a variety of school plans, standardizations, and designs began to emerge. Such plans included the finger-plan school. Initially developed in the 1930s by the Fresno-based architecture firm Franklin and Kump. The finger-plan school was characterized as a series of single-loaded classroom wings, fingers, so to speak, which extended from a central building and outdoor corridor. To get the full benefits of natural light and ventilation, north elevations were outfitted with banks of full-height windows, while south elevation windows were usually located at the clerestory level. Other campus facilities might include a central multipurpose area or library. The finger-plan became the most common school type built on the West Coast in the 1940s, especially after World War II, and was eventually adapted for development in less temperate climates. By the 1950s, however, the type was eclipsed in popularity by the cluster plan and open-plan school types (Sapphos Environmental 2014).

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*Resource Name or # Hazel M. Bailey Primary School

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Continuation

Mid-Century Modern-Style Architecture

Mid-Century Modern-style architecture represents the evolution of the prevailing iterations of pre-World War II modernism into more widely accessible expressions. The style emerged from the work of a second generation of Southern California modernists, including Raphael Soriano, Ray Kappe, Pierre Koenig, and A. Quincy Jones. Between 1945 and the late 1960s, *Art and Architecture* magazine's coverage of John Entenza's Case Study House program helped to raise awareness of the movement on an international scale. The Mid-Century Modern style, like other modernist styles, is characterized by a rejection of historicist ornament and a forthright display of structure and materials. Post-and-bean structural systems of wood or steel figure prominently in compositions. Expanses of windows, often extended to the roofline, accentuate open floorplans and contribute to the style's characteristic integration of indoor and outdoor areas. Buildings tend to have an overall horizontal emphasis, an effect produced by use of sprawling plans, low-slung roofs, and broad, cantilevered eaves and canopies. Exterior surface materials vary widely to include wood, stucco, brick and stone, or steel-framed glass. Mid-Century Modern styling features most prominently in residential and commercial uses, as well as neighborhood institutional properties, such as libraries, schools, and fire stations (Sapphos Environmental 2009).

Swartz and Hyberg, Architects

The subject school was initially developed according to plans designed by the architecture firm Swartz and Hyberg. Founded in 1946, the firm was led by architects Fred L. Swartz and William G. Hyberg. The firm is credited with the designs of several major buildings in Fresno, including Fresno County Library, Elks Lodge, and Fresno State College science building, and a Greyhound depot. The firm was also a prolific designer of schools, including a \$4 million contract to develop more than a dozen buildings for the Modesto School District, along with smaller contracts in the Firebaugh, Fresno, Reedley, Dinuba, and Madera school districts (*Fresno Bee* 1968). The Pacific Coast Architecture Database identifies the New Washington Grammar School (constructed in 1950) as work of the firm (PCAD 2024).

Fred L. Swartz

Swartz was born in Girard, Kansas, in 1885 and relocated to California by the time of his graduation from Fresno High School in 1903. He worked for a short time in a San Francisco architectural firm, before completing a two-year course in architecture at the University of Pennsylvania. Swartz returned to Fresno by 1909 to work as an architect in the practice of his father, A.C. Swartz. During the early part of his career, the younger Swartz worked at the firms Swartz & Son, Swartz, Hotchkin & Swartz, and finally Swartz & Swartz, participating mostly in the design of schools, commercial buildings, and dwellings. In 1919, he and Fresno-based architect C.J. Ryland established a partnership. Over more than a decade of partnership, Swartz and Ryland designed a number of residential, commercial, and institutional properties in Northern and Central California (Historic Fresno 2010). Among the firm's notable commissions was Tracy Community Memorial Hospital, whose plan consisting of a hub and five radiating "spokes," drew national attention as an innovative concept (*Fresno Bee* 1968). After the dissolution of Swartz and Ryland's partnership in the 1930s, Swartz worked briefly with Allied Architects and W.D. Coates, before operating as a civilian architect for the United States Navy during World War II. After the war, he partnered with Hyberg, an arrangement lasting until around 1965 (Historic Fresno 2010). Upon Swartz's death in Fresno in 1968, the *Fresno Bee* published an obituary citing his role in the design of "many of the most familiar public buildings in the San Joaquin Valley" (*Fresno Bee* 1968).

William G. Hyberg

Hyberg was born in in Aurora, Illinois in 1909 and moved to Southern California during his childhood. He graduated from the University of Southern California School of Architecture in 1934 and relocated to Fresno in 1945. The following year, he went into partnership with Swartz. Hyberg is credited with designing several buildings in Fresno, including the Fresno County Library, Elks Lodge, and a Greyhound station. Shortly after Swartz's retirement in 1965, Hyberg relocated to Hawaii. According to an obituary published in the *Fresno Bee*, while in Hawaii Hyberg "[joined] a USC classmate in his business" (*Fresno Bee* 1995). Available sources do not identify the classmate or business and do not otherwise clarify the nature of Hyberg's professional life after the end of his partnership with Swartz. Hyberg died in 1995 (*Fresno Bee* 1995).

NRHP/CRHR Evaluation

Hazel M. Bailey Primary School is recommended ineligible for listing in the NRHP and CRHR due to a lack of historical and architectural significance.

The school was developed circa 1953 as a public elementary school as part of a Post-World War II-era expansion of facilities in what was then the Firebaugh Joint School District. However, available evidence suggests the subject school had a relatively ordinary history for a public school and played no part in any event important to educational development in Firebaugh, California, or the United States. And while the school was part of the Post-World War II-era growth of Firebaugh, research for this study did not suggest this was an important

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historical event or that the school might be significant in the context of any other event with importance to the city, region, state, or nation (Criterion A/1).

Roland A. Wilkie served as superintendent of the Firebaugh Joint School District at the time of the development of the present Hazel M. Bailey Primary School. As superintendent between 1951 and 1966 Wilkie led the district through a period of expansion that grew what was a one-school district to include a new junior high school and three new elementary schools, the subject school among them. However, although the development of new schools was certainly essential to the growth of Firebaugh after World War II, such development was commensurate with the development of schools statewide, and even nationwide, during the postwar Baby Boom Era. No available evidence indicates the activities of Firebaugh's district distinguished from those in other locales or that they would otherwise constitute a singularly significance historical contribution. Research for this study did not find that Narval Davis, James Roggero, Hazel M. Bailey, or any other individual have made significant contributions to local, regional, state, or national history that are directly associated with the subject school (Criterion B/2).

Architecturally, Hazel M. Bailey Primary School is a finger-plan-type school with elements of the Mid-Century Modern style of architecture. As such the property represents among the most common pairings of plan type and architectural style in public school design during the 1940s and 1950s. Research for this study did not find the building's plan represents any innovation related to, or other important departure from, the typical finger-plan school plan of its era. Additionally, while the property employs elements of the Mid-Century Modern style of architecture, such as a horizontal emphasis, lack of ornament, and broad overhanging eaves, the property's visual effect is that of a building designed to emphasize functionality rather than any stylistic expression, and the school is not an exceptionally good example of the style. The property's initial design was created by the firm Swartz and Hyberg, of which firm partner Fred Swartz is a well-regarded architect of public buildings in Fresno County and the wider San Joaquin Valley region, whose work contemporary with the subject property include the Fresno County Library and McLane High School, both of which are extant and are better examples of Mid Century Modern architecture. Based on the preceding analysis, the Bailey Primary School, including its individual buildings and the campus as a whole, does not embody the distinctive characteristics of a type, period or method of construction, or represent the work of a master, or possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction (Criterion C/3).

The built environment of the subject property is not likely to yield valuable information which will contribute to our understanding of human history because the property is not, and never was, the principal source of information pertaining to significant events, people, architectural style, or early to mid-20th century educational buildings (Criterion D/4).

In conclusion, Hazel M. Bailey Primary School is recommended ineligible for listing in the NRHP and CRHR due to a lack of historical and architectural significance and is not a historical resource as defined by CEQA Section 15064.5(a).

B12. References (continued):

Fresno Bee

1952a "Notice to Contractors." September 5, 1952.

https://www.newspapers.com/image/701685658/?match=1&terms=%22firebaugh%20school%20district%22,

accessed May 2024.

1952b "Firebaugh School Work Will Start." October 26, 1952.

https://www.newspapers.com/image/701633327/?match=1&terms=%22parkside%20school%22, accessed May

2024.

1952c "Work Starts on New School in Firebaugh Area." November 2, 1952.

https://www.newspapers.com/image/701682304/?match=1&terms=%22parkside%20school%22, accessed May

2024.

1954a "Notice to Contractors." January 29, 1954.

https://www.newspapers.com/image/702145439/?match=1&terms=%22parkside%20school%22, accessed May

2024.

1954b "Children's Needs on the West Side Will Be Studied." February 20, 1954.

https://www.newspapers.com/image/701687280/?match=1&terms=%22parkside%20school%22, accessed May

2024.

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***Date**: 5/22/2024

Continuation

"Notice to Contractors." December 12, 1958.

 $https://www.newspapers.com/image/702203528/?match=1 \& terms=\%22 parkside\%20 school\%22,\ accessed\ June 10 parksi$

2024.

"Bonds, Tax Hike Gain Voter Okeh." March 27, 1963.

 $https://www.newspapers.com/image/702448136/?match=1 \& terms=\%22 parkside\%20 school\%22,\ accessed\ June$

2024.

1968 "Fred Swartz, Retired Fresno Architect, Dies." October 14, 1968.

https://www.newspapers.com/image/703112828, accessed May 2024.

1995 "Hyberg, William G. (Bill). November 14, 1995.

https://www.newspapers.com/image/707071922/?article = 878943e7-d431-465a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f5-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d431-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-95f6-d65a-9

54cd289a0f44&terms=%22william%20g.%20hyberg%22, accessed May 2024.

Historic Fresno

2010 "Fred L. Swartz (1885-1968)." https://historicfresno.org/bio/swartz.htm, accessed May 2024.

Nationwide Environmental Title Research (NETR) Online

"HistoricAerials Viewer" [historical aerial photograph and topographical map online viewer]. Historical aerial photographs of the subject property and vicinity, 1946, 1955, 1957, 1981, 1998, 2005, 2009, 2010, 2012, 2014, 2016, 2018 and 2020. https://www.historicaerials.com/viewer, accessed May and June 2024.

Pacific Coast Architecture Database (PCAD)

2024 "Swartz and Hyberg, Architects (Partnership)." https://pcad.lib.washington.edu/firm/5339/, accessed May 2024.

Santa Cruz Sentinel

2000 "Funerals: Roland A. Wilkie." August 23, 2000.

https://www.newspapers.com/image/81119505/?article=cd83e63b-138b-4bdb-8234-75cd7fb969bb&terms=%22Roland%20A.%20Wilkie%22, accessed June6, 2024.

Sapphos Environmental

2009 City of Long Beach Historic Context Statement. Prepared for the City of Long Beach, Department of Development Services. July 10, 2009. Document on file at Rincon Consultants, Los Angeles, CA.

2014 Los Angeles Unified School District, Historic Context Statement, 1870 to 1969. Prepared for the Los Angeles Unified School District Office of Environmental Health and Safety. March 2014. Document on file at Rincon Consultants, Los Angeles, CA.

University of California, Santa Barbara (UCSB)

"FrameFinder" [historical aerial photograph online database]. Flight CAS_1957, Frame Firebaugh. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/, accessed May and June 2024.

"FrameFinder" [historical aerial photograph online database]. Flight CAS_FRE, Frame 8-196, Frame Firebaugh. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/, accessed May and June 2024.

Appendix C

Geotechnical Report



May 17, 2024 Revised June 28, 2024 Project No. 07-240145-0

Firebaugh-Las Deltas Unified School District

1734 Saipan Avenue Firebaugh, CA 93622

Care of: Ms. Rachel Knod, Gonzales Architects

Subject: Geotechnical Investigation and Geohazards Study Report

Proposed PS/TK/K Classroom Buildings at Bailey Elementary School

1691 Q Street

Firebaugh, CA 93622

Dear Ms. Knod:

In accordance with your request, we have performed a geotechnical investigation and geohazards study for the subject project. This work was performed in accordance with Section 1803*A.6* of the 2022 California Building Code (CBC). The results of our geotechnical investigation and geohazards study are presented in the accompanying report, which includes a description of site conditions and potential geologic hazards, results of our field investigation and laboratory testing, conclusions, and recommendations.

We appreciate this opportunity to be of service to you. If you have any questions regarding this report, please do not hesitate to contact us at your convenience.

Respectfully submitted,

RMA GeoScience, Inc.

Megan J. Stewart, GIT

Staff Geologist

Josue Montes, PE|GE

Rul, Mone

Principal Geotechnical Engineer

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Distribution: Addressee (1 Original)

Ms. Rachel Knod, Gonzales Architects. (3 Originals and a pdf copy to

rachelk@gonzales-architecture.com)



GEOTECHNICAL INVESTIGATION AND GEOHAZARDS STUDY REPORT PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL 1691 Q STREET FIREBAUGH, CALIFORNIA 93622

for

Firebaugh-Las Deltas Unified School District 1734 Saipan Avenue Firebaugh, California 93622

> May 17, 2024 Revised June 28, 2024

Project No. 07-240145-0



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Figure 2	USGS Contour Map
Figure 3	Regional Geologic Map
Figure 4a	Fault Activity Map
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Figure 4b Legend for Fault Activity Map

Figure 5 Field Exploration Map Figure 6 Cross Section A to A'

APPENDICES

Appendix A	Field Investigation
Appendix B	Laboratory Tests

Appendix C Liquefaction/Seismic Settlement Analysis

Appendix D References



1.00 Introduction

1.01 Purpose

A geotechnical investigation and geohazards study has been completed for the Proposed PS/TK/K Classroom Buildings at Bailey Elementary School, which is located at 1691 Q Street in Firebaugh, California. The purpose of the investigation was to summarize geotechnical and geologic conditions at the site, to assess their potential impact on the proposed development, and to develop geotechnical engineering design parameters for the project.

1.02 Scope of the Study

The general scope of this study included the following:

- Review of published and unpublished geologic, seismic, groundwater and geotechnical literature. This
 included reviewing the following geotechnical reports:
- Examination of aerial photographs and topographic maps.
- Contacting of Underground Service Alert to locate onsite utility lines.
- Logging, sampling, and backfilling of ten exploratory borings drilled with a SIMCO 2800 drill rig: one to an approximate depth of 50 feet and nine to an approximate depth of 21 feet.
- Laboratory testing of representative soil samples.
- Geotechnical evaluation of the compiled data.
- Preparation of this report presenting our findings and conclusions.

As part of the geohazards study associated with our geotechnical investigation, our scope of services included addressing applicable items in California Geological Survey – Note 48, Checklist for the review of engineering Geology and Seismology Reports for California Public School, Hospitals, and Essential Service Buildings, November 2022.

Our scope of work did not include a preliminary site assessment for the potential of hazardous materials onsite.

1.03 Site Location and Description

The project site consists of the central portion of the recess area, generally east of the existing buildings on the Bailey Elementary School campus, in Firebaugh, California. The location of the site relative to nearby streets is indicated on Figure 1, Site Vicinity Map. Its geographic position is 36.8539° north latitude and 120.4459° west longitude. Aerial photos indicate that the area with proposed improvements contained the recess area and several trees from at least 1998 and until recently, with nearby construction and improvements occurring around the project site over the same duration. The existing ground surface is relatively flat and the elevation above mean sea level at the project site is approximately 145 feet according to the USGS Firebaugh 7.5 Minute Quadrangle (see Figure 2).





Photo taken near the northeast corner of the site (near B-1), facing south-southwest. Taken on April 18, 2024.

1.04 Planned Improvements

Based on our review of the information provided, which included a conceptual site plan prepared by Gonzalez Architects, we understand that the project will consist of constructing 8 classroom buildings with a total footprint area for all buildings being 46,000 square-feet. It is anticipated that the structures will be wood-framed with supporting structural steel, have concrete slab-on-grade floors, and have shallow reinforced-concrete foundations. Maximum wall and column loads (dead plus live, not including wind or seismic loads) are anticipated to be less than 2.0 kips per foot and 50 kips, respectively, per Brooks Ransom Structural Engineers. Appurtenant improvements are anticipated to be shade structures, various underground utilities, new concrete flatwork, and landscaping. No grading plan was available at the time of the preparation this report.

1.05 Investigation Methods

Our investigation consisted of office research, review of the compiled data, and preparation of this report. It has been performed in a manner consistent with generally accepted engineering and geologic principles and practices



and has incorporated applicable requirements of California Building Code. Definitions of technical terms and symbols used in this report include those of the ASTM International, the California Building Code, and commonly used geologic nomenclature. Technical supporting data are presented in the attached appendices. Appendix A presents a description of the methods and equipment used in performing the field exploration and logs of our subsurface exploration. Appendix B presents a description of our laboratory testing and the test results. Results of our liquefaction and seismic settlement analysis are provided in Appendix C. References are presented in Appendix D.

2.00 FINDINGS

2.01 Geologic Setting

The subject site is located in the west-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).

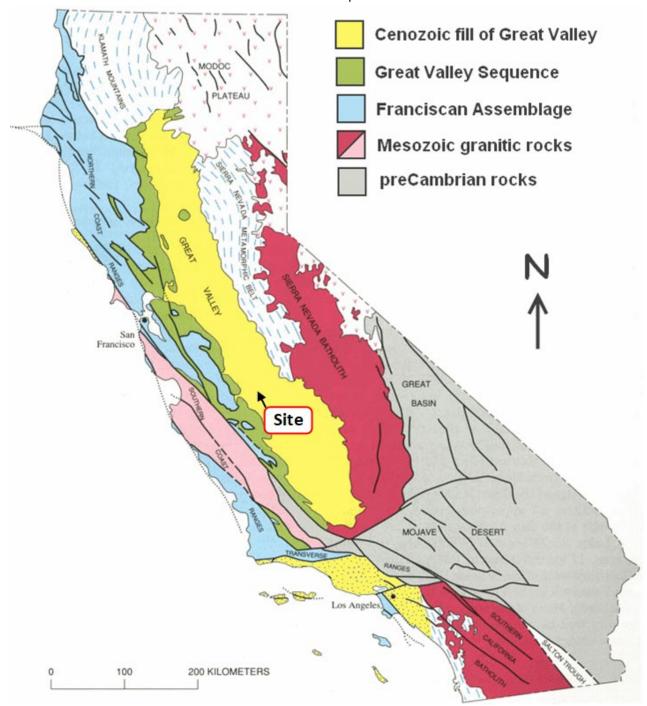
The Sierra Nevada started to form during the Early Jurassic (around 200 million years ago) when the Farallon Plate began subducting under the North American Plate. This subduction resulted in several orogenies, or mountain building events, that created the granitic Sierra Nevada Batholith deep below 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 most recent Ice Age) to the present, glaciers have been carving out many parts of the Sierras. The current uplift of the Sierra Nevada is 1 to 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 to 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). A generalized

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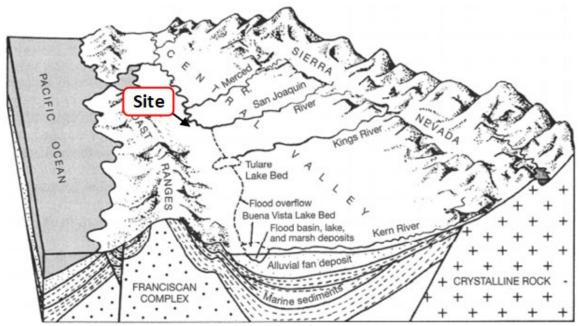


geologic map for the State of California is shown below and Figure 3 illustrates the geologic setting within the regional area of the project site. As shown on Figure 3, the project site is situated on Quaternary deposits of alluvium that are estimated to be several thousand feet deep.



Geologic map showing the locations of Cenozoic alluvium/fill (yellow) overlying the Great Valley Sequence (green), the Franciscan Assemblage (blue), and the Sierra Nevada Batholith (red). Modified from: Irwin (1990).





Geologic block diagram of California. From: Harden (2004). Not to scale.

2.02 Earth Materials

The subsurface exploration performed for this project indicated the presence of reworked, import, and native soils. The reworked soils consisted of fine sandy silt with clay in Boring B-4 from the surface to a depth of approximately 1.5 feet and fine sandy clay in Boring B-10 which extended from the surface to a depth of 2 feet. The import soil consisted of fine to medium sand in Boring B-8 from which extended from below asphalt and aggregate base to a depth of 2 feet. The native soil profile consisted of fat/high plasticity silty clay and lean/low plasticity silty clay underlain by sandy clay, clayey sand, sandy silt, or silty sand. All of these soil horizons were further underlain by poorly graded sand to the maximum depth explored of approximately 50 feet. These layers varied in thickness and appeared to be horizontally discontinuous across the project site. The granular soils generally had a relative density of very loose to medium dense, while the fine-grained soils had a relative consistency of stiff to very stiff. As indicated above, the soils encountered in the test borings are related to deep alluvial deposits that have been deposited over the past several thousand years.

A Boring Location Map showing the locations of the referenced test borings is presented as Figure 5. The logs of our recent exploratory borings are presented in Appendix A, which provide more detailed information of the soils that were encountered to a depth of approximately 50 feet at the project site.

2.03 Expansive Soils

Our field exploration indicates that the near surface soils at the project site have a very high expansion potential (Expansion Index, EI, \leq 130 and Plasticity Index, PI, of 38 to 50). Results of our laboratory tests are presented in Appendix B.



2.04 Surface and Groundwater Conditions

No areas of ponding or standing water were present at the time of our study. Further, no springs or areas of natural seepage were observed at the project site. Groundwater was encountered in the test borings at a depth of approximately 12.5 to 14 feet.

According to recent groundwater data from the SGMA Data Viewer application, the depth to groundwater in the vicinity of the project site is approximately 13 feet as of Spring 2023. Historical data derived from wells (State Well Number 12S14E33E001M, 12S14E21P001M, 12S14E33Q001M, 12S14E20R001M, and 12S14E20Q001M) located approximately 0.66 miles southwest, 0.92 miles north, 0.99 miles south-southeast, 1.01 miles north-northwest, and 1.26 miles northwest, respectively, of the project site indicates the depth to ground water in the vicinity of the project site was approximately 10.9 feet deep in the early 1950's, declined slightly by 1.5 feet by the late-1980's, and remained relatively constant into the mid-2010's, with a historical high of 0.5 feet in March 1983.

Since the 1950's (the earliest well data available), the depth to groundwater has increased slightly, falling approximately 6.2 feet in 68 years. Some recovery in the groundwater could occur, especially following a period of wet years. However, in consideration of the demand for groundwater related to domestic and agricultural purposes, it is highly unlikely that the groundwater table will recover much above the levels observed during, or prior to, the 1980's. Thus, although the "historical high" groundwater table is approximately 0.5 feet at the project site, a design "high" groundwater table of 12.5 feet is recommended for Civil Engineering purposes.

2.05 Faults

The site is not located within the boundaries of an Earthquake Fault Zone for fault-rupture hazard as defined by the Alquist-Priolo Earthquake Fault Zoning Act and no faults are known to pass through the property. The nearest active earthquake fault zones are the Ortigalita Fault Zone, the Nunez Fault, the San Andreas Fault Zone, the Calaveras Fault Zone, and the Quien Sabe Fault located approximately 25 miles west-southwest, 42.4 miles south, 43 miles southwest, 43.7 miles west-southwest, and 44.8 miles west, respectively, of the project site. The location of the project site relative to these and other fault zones is illustrated on Figure 4a.

Our research of regional geologic and seismic data did not reveal any known instances of ground failure in the vicinity of the site associated with regional seismic activity. Seismic design parameters relative to the requirements of the 2022 California Building Code (CBC) are presented in Section 3.03.

2.06 Historic Seismicity

According to the California Historical Earthquakes Online Database maintained by the California Geological Survey and the United Stated Geological Survey (USGS) database, there have been fourteen (14) historic earthquakes with a magnitude greater than or equal to 5.5 with an epicenter within 50 miles of the site. Large historic earthquakes in California with an epicenter of less than 100 miles away from the site are summarized in the table below.

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Large Historic Earthquakes

Event	Date	Magnitude	Distance from Site (Miles)
NE of San Juan Bautista	June 10, 1836	6.4	59
San Andreas	June 25, 1838	7.4	99
E of San Juan Bautista	January 18, 1840	6.5	58
SE of San Juan Bautista	July 3, 1841	6.0	58
E of King City	September 2, 1853	6.3	46
W of Coalinga	January 9, 1857	6.1	53
E of King City	January 9, 1857	5.6	45
Fort Tejon	January 9, 1857	7.9	80
SE of Fremont	November 26, 1858	6.2	87
NE of King City	April 17, 1860	6.0	45
NE of Morgan Hill	February 26, 1864	6.1	68
E of Fremont	March 5, 1864	6.0	91
S of San Jose	October 8, 1865	6.5	84
SW of Tracy	July 15, 1866	6.0	82
NW of Parkfield	February 2, 1881	6.0	56
SW of Patterson	April 10, 1881	6.3	56
NE of Soledad	March 6, 1882	5.9	44
SW of Hollister	March 30, 1883	6.0	59
SE of Hollister	March 31, 1885	5.7	43
NE of Soledad	April 2, 1885	5.9	40
E of King City	April 12, 1885	6.5	49
SW of Bishop	September 30, 1889	6.0	99
S of Gilroy	April 24, 1890	6.3	64
E of Gilroy	June 20, 1897	6.3	59
W of San Juan Bautista	April 30, 1899	6.0	64
NW of Parkfield	March 3, 1901	6.4	59
S of Morgan Hill	July 21, 1911	6.5	68
SE of Parkfield	March 10, 1922	6.5	77
E of King City	July 25, 1926	5.8	42
SW of Santa Cruz	October 22, 1926	6.4	98
NW of San Simeon	November 22, 1952	6.2	92
SE of Hollister	April 9, 1961	5.9	44
SE of Hollister	April 9, 1961	5.5	49
NE of Coalinga	May 2, 1983	6.7	44
NE of Coalinga	May 2, 1983	5.5	44
NE of Coalinga	September 9, 1983	5.5	45



Event	Date	Magnitude	Distance from Site (Miles)
E of San Jose	April 4, 1984	6.2	75
SE of Hollister	January 26, 1986	5.5	47
Loma Prieta	October 18, 1989	6.9	80
NE of San Simeon	December 22, 2003	6.5	88
SE of Parkfield	September 28, 2004	6.0	72

2.07 Flooding Potential

According to the Federal Emergency Management Agency (Flood Insurance Rate Map #06019C1430H, effective February 18, 2009), the new classrooms are located within a shaded area of "Flood Zone AH". Flood Zone AH is a Special Flood Hazard Area subject to inundation by the 1% annual chance flood (the 100-year flood or base flood) which is a flood that has a 1% chance of being equaled or exceeded in any given year. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. Bailey Elementary School lies entirely within Flood Zone AH, which has "flood depths of 1 to 3 feet" and "usually contain areas of ponding" with "base flood elevations determined."

Controlling surface runoff originating from within and outside of the site must be included in design of the project in accordance with the 2022 CBC.

2.08 Landslides

Since there are no natural or manmade slopes in the vicinity of the project site, landslides are not a hazard at this site.

2.09 Other Geologic Hazards

California Geologic Survey Note 48 (2022) identifies a number of exceptional geologic hazards that can occur at individual sites, but do not occur statewide. Evaluation of these exceptional conditions is referred as a conditional geologic assessment by Note 48. Specific assessment items listed in Note 48 are addressed in the table below.

Conditional Geologic Assessment

Hazard	Assessment	Reference
Methane gas, hydrogen-sulfide gas, tar seeps	Not applicable; site is not located within an oil field identified as a high risk area for hazardous gas accumulations.	See Section 1.03.
Volcanic eruption	Not applicable; site is not located in a known hazard area for volcanic eruptions.	Miller, 1989 (U.S.G.S. Bulletin 1847)

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Hazard	Assessment	Reference
Flooding	The proposed development area is located within the boundaries of a 100-year flood zone.	See Section 2.07.
Tsunami and seiches inundation	Not applicable.	See Section 3.12.
Radon-222 gas	Based on our review of the California Department of Public Health Indoor Radon Test Results from 2016, the zip code 93622 had 0 of 2 tests indicate Radon-222 gas levels greater than or equal to the threshold action level of 4 pCi/L (max result was 1 pCi/L). Provided the building(s) is constructed with adequate ventilation, radon exposure is not considered a concern.	See Section 2.01 and CGS Note 48.
Naturally occurring asbestos	Not applicable; site is not located in an area likely to contain naturally occurring asbestos.	Churchill and Hill, 2000 (DMG OFR 2000-19)
Hydrocollapse due to anthropic use of water	Due to the density of the underlying soils, hydrocollapse due to anthropic use of water is unlikely.	See Sections 2.01, 2.02, and Appendix A.
Regional land subsidence	The site is not identified in an area of large historic subsidence within the California Central Valley (although there is major subsidence 20 miles to the northwest and 15 miles southeast). Control of subsidence will dependent upon proper jurisdictional management of groundwater resources.	Borches and Carpenter, 2014.
Clays and cyclic softening	Soils within the upper 50 feet of the ground surface consist of high-plasticity clays. Expansive properties of near-surface soils have been considered in foundation design.	See Sections 3.04 and 3.11.



3.00 CONCLUSIONS AND RECOMMENDATIONS

3.01 General Conclusions

Based on specific data and information contained in this report, our understanding of the project, and our geotechnical engineering experience, it is our professional judgment that the proposed development is geologically and geotechnically feasible. Our review of geological literature and the field exploration performed for this project did not indicate any unusual conditions at the site that would entail special design considerations or construction procedures. Specific geotechnical recommendations and guidelines are presented below to provide information for other members of the design team that can be used to prepare the project plans and specifications for the planned improvements to the administration building.

3.02 General Earthwork and Grading

All grading should be performed in accordance with the recommendations provided below, the project plans and specifications, Appendix J of the 2022 California Building Code and all applicable governmental agency requirements. In the event of conflicts between this report and the other referenced documents, this report shall govern. It should be noted that all references to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D1557 laboratory test procedures.

3.03 Rippability and Rock Disposal

Exploratory borings that have been done at the project site were advanced without difficulty and no oversize materials were encountered. Accordingly, we expect that all earth materials will be rippable with conventional grading equipment and oversized materials are not expected.

3.04 Earthwork Recommendations

All earthwork should be performed in accordance with Appendix J of the 2022 California Building Code and all applicable governmental agency requirements. In the event of conflicts between this report and Appendix J, this report shall govern. It should be noted that all references to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D1557 laboratory test procedures.

A minimum of 2 feet should be removed and replaced as described in this section, with consideration to the grading design elevations. Based on specific data and information collected for this report, our understanding of the project, and our geotechnical engineering experience, it is our professional judgment that one of the following options can be performed: (Option 1) removal of expansive on-site soils and replacement with approved non-expansive soils (see Section 3.07) compacted to 90 percent relative compaction during earthwork, (Option 2) moisture conditioning to at least 4 percent over optimum moisture (as determined from ASTM D1557) of the upper 2 feet of soils below the finished subgrade, is geotechnically feasible. Encountered near surface soil samples had varying moisture contents. Design provisions should be included in design for moisture control in order to mitigate potential expansion of soils, including but not limited to, concrete aprons, deepened footings, downspout



extensions away from perimeter walls. The Owners and Design Team should be aware that the level of risk from soils expansion potential tends to increase with the expansive soils present immediately below concrete slabs. Specific geotechnical recommendations are presented below to address these soil conditions and provide information for other members of the design team to prepare the project plans and specifications for the planned construction.

All vegetation, organic rich soils (soils containing more than 2 percent organics by weight), trash, and debris, should be cleared from the grading area and removed from the site. If allowed by the landscape architect, organic-rich soils can be placed in the upper 12 inches of landscape areas at the site. Based on our field exploration, the site should be stripped to a depth of approximately 4 inches. In areas where the existing AC pavement section is removed, AC grindings with a maximum particle size of 3 inches and at least 30 percent passing the #4 sieve can be used as fill material outside of new building area. Aggregate base can be reclaimed and used as fill material; however, it must be segregated from the underlying soil and should not be mixed with AC grindings if placed as fill within the building area.

A reinforced earth mat is recommended and must be considered as an important part of the earthwork (see **Section 3.12**). Prior to performing the over-excavation recommended below, the stripped surface should be observed and approved by the Project Geotechnical Engineer. After the removal of deleterious materials and the stripping of organic-rich soils, one of the following options must be done within the area of the planned improvements:

Option (1):

- Within the area of the planned building improvements plus at least 5 feet horizontally beyond the perimeter of these improvements, the subgrade must be over-excavated at least 24 inches below the stripped subgrade surface or at least 12 inches below the bottom of footings, whichever is deeper. As a minimum, the upper 2 feet of soils below the finished subgrade should consist of approved non-expansive import soils (see Section 3.07) compacted to at least 90 percent of laboratory maximum density determined using ASTM D1557 method. The reinforced mat is non-expansive.
- Outside of "building pad" area indicated above, and within the areas of planned asphalt pavement or concrete flatwork, the subgrade must be over-excavated at least 12 inches below the stripped surface or below the finished subgrade surface, whichever is lower.
- Following the over-excavation indicated above, a designated representative for the Project Geotechnical Engineer must review the exposed ground surface prior to scarification and determine if any additional over-excavation is required.
- The over-excavated ground surface in all areas determined to be satisfactory for the support of fills must be scarified to a minimum depth of 12 inches. Scarification should continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to at least 4 percent over optimum. The scarified zone must then be uniformly compacted to at least 90 percent relative compaction except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicle traffic, which must be compacted to at least 95 percent.

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• Approved non-expansive fill material (see Section 3.07) should be placed in nearly horizontal layers, uniformly moisture conditioned to at least optimum moisture content for on-site soils, or, uniformly moisture conditioned to at least optimum moisture content for import non-expansive soils, but not more than a moisture content that will not lend to achieving required compaction, and then compacted in layers that do not exceed approximately 6 inches in thickness. Thicker lifts may be placed if testing indicates the compaction procedures are such that the required compaction is being achieved and the geotechnical consultant approves their use. Each layer shall be spread evenly and shall be thoroughly mixed during the spreading to insure uniformity of material in each layer. Engineered fill must be compacted to achieve a relative compaction of at least 90 percent except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicular traffic, which must be compacted to at least 95 percent. A representative from RMA GeoScience must observe the placement of all fill material and perform tests to verify that the compaction of the fill material meets these requirements.

Option (2):

- Within the area of the planned building improvements plus at least 5 feet horizontally beyond the perimeter of these improvements, the upper 24 inches of subgrade soils below the concrete slab-on-grade should consist of on-site soils moisture conditioned to at least 4 percent over optimum moisture content as determined in accordance with ASTM D1557. The upper 12 inches may consist of imported non-expansive soils. If the upper 12 inches consists of imported non-expansive soils, the on-site soils below the import soils should be moisture conditioned at least 4 percent over optimum. The reinforced mat thickness can be considered part of the required thickness of moisture conditioned soils.
- Outside of "building pad" areas indicated above, and within the areas of planned asphalt pavement or concrete flatwork, the upper 12 inches of subgrade soils below the concrete slab-on-grade should consist of native clayey soils moisture conditioned to at least 4 percent over optimum moisture content as determined in accordance with ASTM D1557.
- A concrete apron at least 4 feet wide should be installed along the exterior perimeter of each structure to
 mitigate migration of water towards underneath the building. All surface water should drain away from
 the buildings.
- Following the over-excavation indicated above, a designated representative for the Project Geotechnical Engineer must review the exposed ground surface prior to scarification and determine if any additional over-excavation is required.
- The over-excavated ground surface in all areas determined to be satisfactory for the support of fills must be scarified to a minimum depth of 12 inches. Scarification should continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to at least 4 percent over optimum. The scarified zone must then be uniformly compacted to at least 90 percent relative compaction except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicle traffic, which must be compacted to at least 95 percent.
- Removed and/or over-excavated on-site native soils free of organics and other deleterious material may be used as engineered fill. Fill material should be placed in nearly horizontal layers, uniformly moisture conditioned to at least 4 percent over optimum moisture content for on-site soils, or, uniformly moisture conditioned to near optimum moisture content for import non-expansive soils, but not more than a moisture content that will not lend to achieving required compaction, and then compacted in layers that

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do not exceed approximately 6 inches in thickness. Thicker lifts may be placed if testing indicates the compaction procedures are such that the required compaction is being achieved and the geotechnical consultant approves their use. Each layer shall be spread evenly and shall be thoroughly mixed during the spreading to insure uniformity of material in each layer Engineered fill must be compacted to achieve a relative compaction of at least 90 percent except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicular traffic, which must be compacted to at least 95 percent. A representative from RMA GeoScience must observe the placement of all fill material and perform tests to verify that the compaction of the fill material meets these requirements.

The above recommendations are based on the assumption that soils encountered during field exploration are representative of soils throughout the site. However, there can be unforeseen and unanticipated variations in soils between points of subsurface exploration. Hence, over-excavation depths must be verified, and adjusted if necessary, at the time of grading. In addition, any contaminated or expansive soils within three (3) feet of the finished subgrade surface, must be removed and properly disposed of outside the area of the planned improvements.

3.05 Imported Fill Material

If required, imported fill materials that will be placed within building or concrete flatwork areas must be non-hazardous and be obtained from a single, uniform source that meets the following criteria:

Gradation				
Sieve	Size	Percent Passing		
3-in	ch	100%		
3/4-i	nch	90% -	100%	
#4	1	60% -	100%	
#20	00	20% -	50%	
Maximum Exp	ansion Index	Maximum Plasticity Index		
20 10				
Minimum R-Value (in paved areas)				
40				
Maximum Organic Content				
	< 2% by	weight		
Corrosivity				
	Minimum	Soluble	Soluble	
pН	Resistivity	Sulfates	Chlorides	
	(ohm-cm)	(mg/kg)	(mg/kg)	
6.0 to 8.5	> 5,000*	< 1,000	< 200	

^{*}unless other requirement established by the Design Engineer



3.06 Temporary Slopes and Shoring

Our geotechnical investigation indicates that excavations less than 4 feet in depth may generally be constructed with vertical sidewalls without shoring or shielding. Temporary excavations in existing alluvial soils that are deeper than 4 feet may be safely made at an inclination of 1:1 or flatter. If vertical sidewalls are required in excavations greater than 4 feet in depth, the use of cantilevered or braced shoring is recommended. The following geotechnical parameters can be used to design a shoring system:

Moist Unit Weight of Soils: 130 pcf Angle of Internal Friction (ø): 30° Cohesion: 450 psf

Unless vehicles, equipment, materials, etc., are kept a minimum distance equal to the height of the excavation away from the edge of the excavation, a surcharge load equal to a uniform lateral pressure of 72 psf should be assumed to act on the shoring in addition to the earth pressure calculated using the above geotechnical parameters.

Vehicles, equipment, materials, etc. should be set back a minimum distance of 10 feet from the top edge of sloped or vertical excavations. Surface waters should be diverted away from temporary excavations and prevented from draining over the top of the excavation and down the slope face. During periods of heavy rain, the slope face should be protected with sandbags to prevent drainage over the edge of the slope, and a visqueen liner placed on the slope face to prevent erosion of the slope face.

Periodic observations of the excavations should be made by the geotechnical consultant to verify that the soil conditions have not varied from those anticipated and to monitor the overall condition of the temporary excavations over time. If at any time during construction conditions are encountered which differ from those anticipated, the geotechnical consultant should be contacted and allowed to analyze the field conditions prior to commencing work within the excavation. In any case, Cal/OSHA construction safety orders should be observed during all underground work.

3.07 Fill and Cut Slopes

Due to the low gradient of the property, it appears that construction of cut and fill slopes will not be required. If such slopes are proposed, they should be inclined no steeper than 2 horizontal to 1 vertical. In addition, appropriate landscaping measures should be taken to protect the face of slopes from erosion.

3.08 Utility Trench Backfill

The existing onsite soils will generally not be suitable for use as pipe bedding for buried utilities. All pipes should be bedded in sand or other suitable material as specified by the Project Civil Engineer and/or as specified by the pipe/conduit manufacturer. We recommend the bedding material have a Sand Equivalent (SE) of at least 30 and have less than 8 percent, by weight, passing the #200 Sieve. The geotechnical consultant should review and



approve proposed bedding materials prior to use. Bedding materials should be compacted to at least 90% relative compaction (ASTM D1557) by mechanical methods.

The on-site soils are expected to be suitable as trench backfill provided they are screened of organic matter and other deleterious material. Trench backfill must be compacted to at least 90% relative compaction (ASTM D1557) and the upper 12 inches of trench backfill beneath pavement sections should be compacted to at least 95% relative compaction. Trench backfill should be compacted using mechanical methods; no jetting of backfill should be allowed. A minimum trench width of 24 inches or 18 inches plus the diameter of the utility line, whichever is greater, should be provided to permit uniform compaction on both sides of utility line and allow for a technician to perform in-place density tests. If narrower trenches are desired, a sand-cement slurry should be used to backfill the trenches to within 8 inches of the top of trench. The sand-cement slurry should contain at least 2 sacks of cement per yard of mix and have a 4- to 6-inch slump. In addition, slurry should be consolidated using a suitable vibratory or mechanical method.

All utility trench backfill within street right of ways, utility easements, under or adjacent to sidewalks, driveways, or building pads should be observed and tested by the geotechnical consultant to verify proper compaction. Trenches excavated adjacent to foundations should not extend within the footing influence zone defined as the area within a line projected at a 1:1 drawn from the bottom edge of the footing. Trenches crossing perpendicular to foundations should be excavated and backfilled prior to the construction of the foundations. The excavations should be backfilled in the presence of the geotechnical engineer and tested to verify adequate compaction beneath the proposed footing. Where utility crossings are located within 12 inches of bottoms of footings, conduits should be wrapped with polystyrene foam or other suitable material with a minimum thickness of one inch. Conduits extending through footings shall be "sleeved" as determined by the Project Structural Engineer.

3.09 Faulting

Since the site is not located within the boundaries of an Earthquake Fault Zone and no faults are known to pass through or near the property, surface fault rupture within the site is considered unlikely.

3.10 Seismic Design Parameters

Seismic design parameters have been developed in accordance with Section 1613A of the 2022 California Building Code (CBC) using the online SEAOC and OSHPD Seismic Design Maps Calculator (ASCE 7-16 Standard) and a site location based on latitude and longitude. The calculator generates probabilistic and deterministic maximum considered earthquake spectral parameters represented by a 5-percent damped acceleration response spectrum having a 2-percent probability of exceedance in 50 years. The deterministic response accelerations are calculated as 150 percent of the largest median 5-percent damped spectral response acceleration computed on active faults within a region, where the deterministic values govern. The calculator does not, however, produce separate probabilistic and deterministic results. The parameters generated for the subject site are presented below:



2022 California Building Code (CBC) Seismic Parameters

Parameter	Value	
Site Location	Latitude = 36.8539 degrees	
Site Location	Longitude = -120.4459 degrees	
Site Class	Site Class = D*	
Site Class	Soil Profile Name = "Stiff Soil"	
Risk Category	III	
Mapped Spectral Accelerations	S_s (0.2-second period) = 0.842g	
Mapped Spectral Accelerations	S_1 (1-second period) = 0.309g	
Site Coefficients	F _a = 1.163	
(Site Class F)	F _V = Null - Section 11.4.8	
Maximum Considered Earthquake	S_{MS} (0.2-second period) = 0.979g	
Spectral Accelerations (Site Class D)	S_{M1} (1-second period) = Null - Section 11.4.8	
Design Earthquake	S_{DS} (0.2-second period) = 0.653g	
Spectral Accelerations (Site Class D)	S _{D1} (1-second period) = Null - Section 11.4.8	

^{*}As defined in Chapter 20 of ASCE 7-16, a Site Class D is applicable to predominantly cohesionless soils with an average standard penetration resistance of 15 to 50 within the upper 100 feet. Based on the geologic setting, our 50-foot-deep test boring (see Boring B-5 in Appendix A), taking into consideration correction factors, combining other data from the 20-foot borings, and other historical geotechnical data (see Section 1.02), the soil profile at the project site meets these criteria.

As the Site Class is D and the S_1 value is greater than 0.20g, then per ASCE 7-16 Section 11.4.8 a site-specific ground motions procedure is required with several exceptions. We assume that Exception 2 is applicable to this site, and hence the seismic parameters indicated in the table above have been calculated. If Exception 2 does not apply, the structural engineer should contact us so we develop the site-specific seismic parameters.

The above table shows that the mapped spectral response acceleration parameter for a 1-second period (S_1) is less than 0.75g and the spectral response acceleration parameter (S_{DS}) is greater than 0.50g. Therefore, the Seismic Design Category using 2022 CBC Tables 1613.2.5(1) and 1613.2.5(2) is D for all Occupancy Categories (2022 CBC Section 1613.2.5). Consequently, as required for Seismic Design Categories C through F by CBC Section 1803.5.12, slope instability, liquefaction, total and differential settlement, and surface displacement by faulting or seismically lateral spreading or lateral flow have been evaluated.

Peak earthquake ground acceleration adjusted for site class effects (PGA_M) has been calculated in accordance with ASCE 7-16 Section 11.8.3 as follows: $PGA_{M} = F_{PGA} \times PGA = 1.246 \times 0.354 = 0.441g$.

3.11 Liquefaction and Secondary Earthquake Hazards

Potential secondary seismic hazards that can affect land development projects include liquefaction, tsunamis, seiches, and seismically induced settlement.



Liquefaction

Liquefaction is a phenomenon where earthquake-induced ground vibrations increase the pore pressure in saturated, granular soils until it is equal to the confining, overburden pressure. When this occurs, the soil can completely lose its shear strength and enter a liquefied state. The possibility of liquefaction is dependent upon grain size, relative density, confining pressure, saturation of the soils, and intensity and duration of ground shaking. In order for liquefaction to occur, three criteria must be met: "low density", coarse-grained (sandy) soils, a groundwater depth of less than about 50 feet, and a potential for seismic shaking from nearby large-magnitude earthquake.

Research has shown that saturated, loose sands with a silt content less than about 25 percent are most susceptible to liquefaction, whereas other soil types are generally considered to have a low susceptibility. According to the California Geologic Survey (CGS) Special Publication SP-117A (2008), "Guidelines for Evaluating and Mitigating Seismic Hazards in California," any materials with a PI > 12 and moisture content < 85% of the liquid limit were considered not subject to liquefaction. Liquefaction susceptibility is related to numerous factors, and the following conditions must exist for liquefaction to occur:

- Sediments must be relatively young in age and must not have developed large amounts of cementation;
- Sediments must consist mainly of cohesionless sands and silts;
- The sediment must not have a high relative density;
- Free groundwater must exist in the sediment; and
- The site must be exposed to seismic events of a magnitude large enough to induce straining of soils particles.

The soils in the upper 50 feet at the project site consist primarily of silty clay, clayey sand, and poorly graded sand. A liquefaction analysis was performed using the sampler blow count and soil data from the deep boring that was performed at the project site (Boring B-5), using corrected SPT value $[(N_1)_{60}]$. The analysis was performed using LiquefyPro Version 5 (2015 edition) for two groundwater conditions: at a depth of 0.5 feet (historical high groundwater condition as required by CGS) and at a depth of 12.5 feet (representative of a recommended design "high groundwater condition" based on historical DWR data in the past 30 years). The analysis also took into account that the (PGA_M) is 0.441g and the Modal Magnitude (M_M) for the design level earthquake is 5.5 (based on the PSH Deaggregation tool on the USGS website at https://earthquake.usgs.gov/hazards/interactive/) for a 2-percent probability for exceedance in 50 years (a return period of 2,475 years). A summary of the input data and the results of this liquefaction analysis are provided in Appendix C of this report. Based on this analysis, there appears to be a risk of liquefaction occurring at the project site during a design level earthquake in a poorly graded sand layer between 10 and 33 feet below the ground surface (see Figures C-1 and C-2 Appendix C).

In accordance with California Geologic Survey (CGS) special publication 117 and 117A and Ishihara, K (1985), cyclic liquefaction may result in surface manifestation, which could lead to the development of sand boils. Due to shallow liquefiable poorly graded sand layers encountered throughout the site, bearing loss could occur during

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strong earthquake shaking. Bearing loss could result in uneven settlement, causing cracks in the foundation and the structure or partial collapse of the structure.

Seismically induced settlement due to liquefaction was evaluated to be 3.37 inches for the historical high groundwater (see Figure C-2 of Appendix C) and 0.61 inches for the recent groundwater (see Figure C-4 of Appendix C). The general guidelines of the CGS indicate the differential seismically induced settlement across a building would be about one-half the total settlement. This would result in a differential settlement of approximately 1.69 inches for the historical high and approximately 0.31 inches for the recent groundwater.

It should be noted that the California Geological Survey has not yet prepared a Seismic Hazard Zone Map of potential liquefaction hazards for the quadrangle in which the site is located. In addition, there are no liquefaction hazard zones identified near the site according to the Fresno County General Plan. Because there are no mapped liquefaction hazard zones near the site, a map depicting such a zone relative to the site has not been prepared.

Tsunamis and Seiches

Tsunamis are sea waves that are generated in response to large-magnitude earthquakes. When these waves reach shorelines, they sometimes produce coastal flooding. Seiches are the oscillation of large bodies of standing water, such as lakes, that can occur in response to ground shaking. Tsunamis and seiches do not pose hazards due to the inland location of the site and lack of nearby bodies of standing water.

Seismically Induced Settlement

Seismically induced settlement occurs most frequently in areas underlain by loose, granular sediments. Damage as a result of seismically induced settlement is most dramatic when differential settlement occurs in areas with large variations in the thickness of underlying sediments. Settlement caused by ground shaking is often non-uniformly distributed, which can result in differential settlement.

A seismic settlement analysis was performed using LiquefyPro Version 5 (2015 edition) in conjunction with the liquefaction analysis that was performed for this project as indicated above. A summary of the input data and the results of the seismic settlement analysis are provided in Appendix C of this report. Based on this analysis, a seismic settlement of approximately 1.53 inches is expected to occur at the project site during a design level earthquake (see Figure C-4 in Appendix C).

Seismically Induced Flooding

Both the City of Firebaugh and the County of Fresno General Plans indicate the site is located within the potential dam inundation areas of Fraint Dam and Pine Flat Dam (see figure below). However, the city of Firebaugh General Plan notes that in a worst case scenario of dam failure, it would take 24 to 36 hours for flooding to reach the Firebaugh area, leaving adequate time for evacuations.



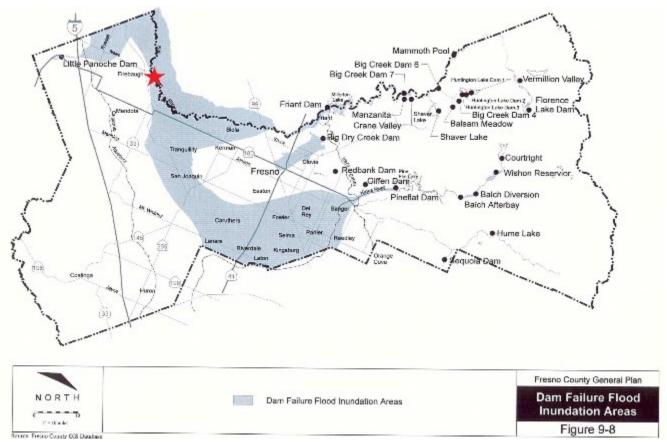


Figure 9-8 from the County of Fresno General Plan depicting Dam Inundation areas. The site is marked with a red star.

Seismically Induced Landslides

There are no cut or fill slopes that currently exist or are planned at the project site; therefore, the potential for seismically induced landslides is nil.

3.12 Specifications for Mitigating Bearing Loss and Settlement

Provided the structure can tolerate 1-inch of differential settlement, construct a reinforced earth mat on recompacted subgrade using geogrid (Tensar Triax TX160) and fill composite to minimize the potential for bearing loss. Fill may consist of either compacted on-site/select granular import fill or Caltrans Class 2 aggregate base fill. The Caltrans Standard Specifications provide the grading criteria for Class 2 aggregate base. All other import fill shall follow the recommendations in this report (Section 3.05). All imported fill materials to be used for engineered fill should be sampled and tested by a representative of the project Geotechnical Engineer prior to being transported to the site.

The earth mat comprised of geogrid and fill layers shall extend under the entire building including overhangs supported on foundations and shall extend beyond the perimeter of the outer most foundations a distance of 1



to 1.5 times the sum of the earth mat thickness plus depth of fill above the earth mat. The extension of the earth mat beyond the structure is necessary to provide adequate bearing support at the building perimeter and is consistent with recommendations provided by the geogrid manufacturer Tensar, Information Bulletin, IB Earthquake Foundation, April 5, 2013.

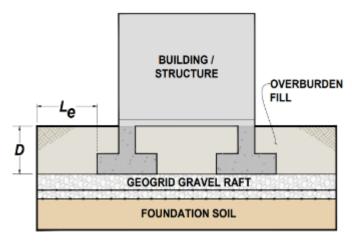


Figure depicting geogrid rigid earth mat where "D" is the footing depth and "Le" is the lateral extents beyond the footing.

The earth mat may interfere with the construction of foundations and utilities, therefore, the Structural Engineer, Civil Engineer, and Architect shall coordinate plans to insure the earth mat geogrid and fill is placed below foundations and utilities such that the grid and fill composite is not compromised by excavation of footings or utilities.

The earth mat shall consist of placing two (2) layers of Tensar Triax TX160 geogrid with 12 inches of compacted Caltrans Class 2 aggregate base fill placed on top of each geogrid for a total earth mat thickness of 2 feet. Prior to initiating the construction of the earth mat, the recommendations in Section 3.04 of this report shall be implemented. The relative compaction of subgrade, fill soil, select fill, and, or Class 2 aggregate base shall be a minimum of 95 percent. Soils and aggregate base used for engineered fill should be uniformly moisture conditioned to at, or above the optimum moisture content, placed in horizontal lifts less than 8 inches in loose thickness, and compacted to at least 95 percent relative compaction.

The first or bottom geogrid should be placed on the smoothed compacted subgrade. Adjacent panels of geogrid shall be lapped a minimum of 2 feet. The geogrids should be smooth and taught to remove all slack and adjacent geogrids should be lapped a minimum of 2 feet. The geogrid shall be covered with a minimum of 6 inches of select fill or Class 2 aggregate base to provide confinement and initial compaction. The lift thicknesses shall be adjusted based on the ability of the equipment to meet compaction. Additional select fill and, or aggregate base lifts shall be placed and compacted to achieve the recommended thickness of 12 inches over the grid. The second geogrid should be placed on top of the 12 inches compacted select fill or aggregate base and followed by an additional 12 inches of select fill or aggregate base. Engineered fill to achieve the final pad grade elevation shall be placed and compacted in accordance with Section 3.04 of this report. Fill placed above the two-layer geogrid and fill composite described above may be compacted to 90 percent relative compaction.



3.13 Foundations

Isolated spread footings and/or continuous wall footings are recommended to support the proposed new building. New footings should be embedded at least 12 inches below the lowest adjacent grade and must be constructed on properly compacted fill as recommended in Section 3.04 of this report. Continuous and isolated spread footings with a minimum width of 12 and 24 inches, respectively, may be designed using an allowable bearing capacity of 2,000 pounds per square foot (psf). This allowable bearing capacity represents an allowable net increase in soil pressure over existing soil pressure and may be increased by one-third for short-term wind or seismic loads. The maximum expected settlement of footings is expected to be less than 3/4 inch with a differential settlement of less than 1/4 inch between similarly sized and loaded footings or less than 1/4 inch over a distance of 30 feet for continuous footings. This assumes that the maximum column and wall loads (dead plus live, not including wind or seismic) associated with new building improvements will not exceed 40 kips and 2.0 kips per foot, respectively.

Our lab testing indicates that the upper 5 feet of soils at the site should have a very high expansion potential (Expansion Index \leq 130). The type and dimensions of concrete, and the size and location of reinforcing steel, used in foundations should be specified by the Project Structural Engineer. As a minimum, reinforcement for continuous footings should include at least one #4 bar located near both the top and bottom of continuous footings.

It will be very important for all footing excavations to be observed by the geotechnical engineer to verify that they have been excavated into the recommended bearing material. Where zones of relatively loose or disturbed soils are present at the bottom of foundation excavations, these soils should be properly compacted to provide a uniform bearing surface that meets the approval of the geotechnical engineer (refer to Section 3.04).

3.14 Lateral Load Resistance and Earth Pressures

Lateral loads may be resisted by soil friction and the passive resistance of the soil. The following parameters are recommended.

- Allowable Passive Earth Pressure = 300 psf (equivalent fluid weight, includes a factor of safety = 2.0)
- Allowable Coefficient of Friction (soil to footing) = 0.30 (includes a factor of safety = 1.5)
- Retaining structures should be designed to resist a lateral active earth pressure of 40 pcf (equivalent fluid weight) for a level, non-expansive granular backfill with drainage provided.

The active earth pressure provided above is only applicable if the retained earth is allowed to strain sufficiently to achieve the active state. The required minimum horizontal strain to achieve the active state is approximately 0.0025H. Retaining structures should be designed to resist an at-rest lateral earth pressure of 55 pcf (equivalent fluid weight) if this horizontal strain cannot be achieved.

3.15 Pole Type Foundations

It is anticipated that light poles, signs, or canopies may be supported on pole-type foundations or drilled piers. This type of foundation should be designed in accordance with Section 1807.3 of the 2022 CBC. It is recommended that

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an allowable lateral soil bearing pressure of 300 psf per foot of embedment be used to develop parameters S1 and S3 rather than one of the values given in Table 1806.2. This value includes a factor of safety of 2 and may be increased as indicated in Section 1806.3.4. In landscape areas, the upper 12 inches of soil should be ignored when calculating the minimum depth of embedment.

An allowable end bearing pressure of 2,000 psf (includes a factor of safety of 3.0) and an allowable average skin friction of 330 psf (includes a factor of safety of 2.0) may be used to support compressive vertical loads applied to pier foundations that are embedded at least 5 feet. The end bearing should be ignored if the drilled pier excavation is not properly cleaned out prior to installing the reinforcing steel and placing concrete. The uplift capacity of drilled piers can be calculated using an allowable skin friction of 230 psf plus the weight of the pier. In landscape areas, the skin friction within the upper 12 inches of embedded length should be ignored for compressive or uplift loads. The total settlement of pier foundations designed in accordance with these recommendations should not exceed one-half inch.

Prior to placing reinforcing steel or concrete, loose or disturbed soils should be removed from drilled pier excavations. A representative of the Geotechnical Engineer should observe the drilling and clean-out associated with the construction of pier foundations in order to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report. Therefore, for drilled piers that extend to depths of sandy soils, the contractor should be prepared to take measures to prevent caving or significant sloughing in drilled holes (such as temporary casing) from occurring during the drilling and installation of reinforcing steel and concrete. In any case, reinforcing steel and concrete should be installed in an expeditious manner after each drilled hole is cleaned out. The contractor must take responsibility for staging the installation of drilled piers so that significant amounts of sloughing or caving do not occur prior to installing the reinforcing steel and concrete. The annular space around the pole must be backfilled using approved CLSM (controlled low strength material).

3.16 Interior Slabs on Grade

Concrete floors with a minimum thickness of 4 inches are recommended for interior slabs on grade. Existing on-site soils within 5 feet of the ground surface may be considered to have a very high expansion potential for design purposes (Expansion Index of \leq 130). However, to reduce the potential for excessive cracks as a result of differential movement, consideration should be given to reinforcing concrete slab-on-grade floors with at least #3 bars spaced 24 inches on-center in both directions. Reinforcement consisting of welded or woven wire mesh should not be used, due to the difficulty of keeping it centered in the slab during the construction process. If heavy concentrated or moving loads are anticipated, slabs should be designed using a modulus of subgrade reaction (k) of 90 pci. The concrete mix, reinforcement of slabs, and the location of construction and control joints should be specified by the Design Engineer.

Special care should be taken on floors slabs to be covered with thin-set tile or other inflexible coverings. These areas should have suitable reinforcement that is placed at the mid-height of the slab, to mitigate drying shrinkage cracks. Alternatively, inflexible flooring may be installed with unbonded fabric or liners to prevent reflection of slab cracks through the flooring.

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A moisture vapor retarder/barrier is recommended beneath all slabs-on-grade that will be covered by moisture-sensitive flooring materials such as vinyl, linoleum, wood, carpet, rubber, rubber-backed carpet, tile, impermeable floor coatings, adhesives, or where moisture-sensitive equipment, products, or environments will exist. We recommend that design and construction of the moisture vapor retarder/barrier conform to Section 1805 of the 2022 California Building Code and pertinent sections of American Concrete Institute (ACI) guidance documents 302.1R-04, 302.2R-06 and 360R-10.

The moisture vapor retarder/barrier should consist of a minimum 10 mils thick polyethylene with a maximum perm rating of 0.3 in accordance with ASTM E 1745. Seams in the moisture vapor retarder/barrier should be overlapped no less than 6 inches or in accordance with the manufacturer's recommendations. Joints and penetrations should be sealed with the manufacturer's recommended adhesives, pressure-sensitive tape, or both. The contractor must avoid damaging or puncturing the moisture vapor retarder/barrier and repair any punctures with additional polyethylene properly lapped and sealed.

The moisture vapor retarder/barrier may be placed directly beneath the floor slab with no intermediate granular fill layer. The vapor barrier should be placed directly on a smooth compacted subgrade surface consistent with the recommendations provided in Section 3.02 of this report. This method of construction will provide improved curing of the slab bottom and will eliminate potential problems caused by water being trapped in a granular fill layer. However, concrete slabs poured directly on a moisture vapor retarder/barrier can experience shrinkage cracking and curling due to differential rates of curing through the thickness of the slab. Therefore, for concrete placed directly on the moisture vapor retarder/barrier, we recommend a maximum water to cement ratio of 0.45 and the use of water-reducing admixtures to increase workability and decrease bleeding.

Alternatively, the slabs may be constructed over 2 inches of sand that is placed on the moisture vapor retarder/barrier. Granular fill should consist of clean, fine-graded materials with 100% passing the No. 4 sieve, 10% to 30% passing the No. 100 sieve, and less than 5% passing the No. 200 sieve. The granular layer should be moist but not saturated and uniformly compacted by making at least one pass with a vibratory base compactor or some other mechanical method that is approved by the Project Geotechnical Engineer. If uneven, the surface of the sand should be trimmed to provide the full design thickness of the proposed slab. The granular fill layer should not be left exposed to rain or other sources of water such as wet-grinding, power washing, pipe leaks or other processes, and should be damp but not saturated at the time of concrete placement. Granular fill layers that become saturated should be removed and replaced prior to concrete placement.

3.17 Miscellaneous Concrete Flatwork

Miscellaneous concrete flatwork and walkways may be designed with a minimum thickness of 4 inches. Large slabs (greater than 6 feet in width) should be reinforced with a minimum of #3 rebar placed 24 inches on-center in both directions. The reinforcement must be placed at mid-height in the slab. Control joints should be constructed to create squares or rectangles with a maximum spacing of 12 feet. The Project Civil Engineer should



provide design details and specifications for all exterior concrete flatwork include walkways. In addition, walkways should be separated from foundations with a thick expansion joint filler.

The subgrade beneath all miscellaneous concrete flatwork and equipment pads should be constructed in accordance with Section 3.04 of this report. The geotechnical engineer should monitor the moisture conditioning and compaction of the subgrade soils in order to verify compliance with our recommendations.

3.18 Footing Excavations and Concrete Subgrade

All footing excavations should be observed by the geotechnical consultant to verify that they have been excavated into competent soils. The foundation excavations should be observed prior to the placement of forms, reinforcement steel, or concrete. These excavations should be evenly trimmed and level. Prior to concrete placement, any loose or soft soils should be removed. Excavated soils should not be placed within slab or footing areas unless properly compacted (see Section 3.04).

Prior to the placement of the moisture barrier and sand, the subgrade soils underlying the slab should be observed by the geotechnical consultant to verify that all under-slab utility trenches have been properly backfilled and compacted, that no loose or soft soils are present, and that the slab subgrade has been properly compacted to a minimum of 90 percent relative compaction within the upper 12 inches.

Footings may experience an overall loss in bearing capacity or an increased potential to settle where located in close proximity to existing or future utility trenches. Furthermore, stresses imposed by the footings on the utility lines may cause cracking, collapse and/or a loss of serviceability. To reduce this risk, footings should extend below a 1:1 plane projected upward from the closest bottom of a parallel utility trench.

The subgrade below slabs on grade and walkways should be brought to a minimum of 0% and a maximum of 4% above the optimum moisture content for a depth of 6 inches prior to the placement of concrete or a moisture barrier. The geotechnical consultant should perform insitu moisture tests to verify that the appropriate moisture content has been achieve a maximum of 72 hours prior to the placement of concrete or moisture barriers.

3.19 Drainage and Moisture Proofing

Surface drainage should be directed away from the proposed improvements into suitable drainage devices (see Section 1804.4 of the 2022 CBC). Neither excess irrigation nor rainwater should be allowed to collect or pond against building foundations or within low-lying or level areas of the lot. Surface waters should be diverted away from the tops of slopes and prevented from draining over the top of slopes and down the slope face.

Walls and portions thereof that retain soil and enclose interior spaces and floors below grade should be waterproofed and damp-proofed in accordance with Section 1805 of the 2022 CBC.

Retaining structures should be drained to prevent the accumulation of subsurface water behind the walls.



Backdrains should be installed behind all retaining walls exceeding 3 feet in height. All backdrains should be outlet to suitable drainage devices. Retaining walls less than 3 feet in height should be provided with backdrains or weep holes. Damp-proofing and/or waterproofing should also be provided on all retaining walls exceeding 3 feet in height.

3.20 Cement Type and Corrosion Potential

Soluble sulfate tests performed on a near-surface soil sample indicate soluble sulfate content of 1,560.0 to 4,640.0 mg/kg (0.156 to 0.464 percent by weight). Thus, below-grade concrete at the subject site should have a **severe** exposure to water-soluble sulfate in the soil. Our recommendations for concrete exposed to sulfate-containing soils are presented in the table below.

Recommendations for Concrete Exposed to Soils Containing Soluble Sulfate

Sulfate Exposure	(004)		Cement Type (ASTM C150)	Maximum Water-Cement Ratio (by Weight)	Minimum Compressive Strength (psi)
Negligible	0.00 - 0.10	0-150			2,500
Moderate	0.10 - 0.20	150-1,500	Ш	0.50	4,000
Severe	0.20 - 2.00	1,500- 10,000	V	0.45	4,500
Very Severe	Over 2.00	Over 10,000	V plus pozzolan or slag	0.45	4,500

Use of alternate combinations of cementitious materials may be permitted if the combinations meet design recommendations contained in American Concrete Institute guideline ACI 318-11.

Our testing also indicates that there is an <u>extremely high</u> concentration of soluble chloride (72.5 to 1,560.0 mg/kg) in the onsite soils; <u>therefore</u>, <u>special protection of reinforcing steel should be required due to soil conditions</u>.

The soils were also tested for soil reactivity (pH) and electrical resistivity (ohm-cm). The test results indicate that the on-site soils have a pH in the range of 7.23 to 7.38 and a minimum electrical resistivity in the range of 990 to 1,820 ohm-cm. A neutral or non-corrosive soil has a value ranging from 6.0 to 8.5; thus, the onsite soils can be considered pH neutral. Generally, soils that could be considered moderately corrosive to ferrous metals have minimum resistivity values of about 3,000 ohm-cm to 10,000 ohm-cm. Soils with resistivity values less than 3,000 ohm-cm can be considered corrosive and soils with resistivity values less than 1,000 ohm-cm can be considered extremely corrosive. In any case, buried metal conduits should have a protective coating in accordance with the manufacturer's specifications. A corrosion specialist should be consulted if more detailed recommendations are required.



3.21 Pavement Sections

Current plans indicate that site improvements will include constructing new asphalt concrete (AC) driveways and parking areas. A Traffic Index (TI) in the range of 5.0 to 10.0 is expected to be applicable for the traffic conditions at the project site. These traffic design assumptions should be reviewed for compatibility with the actual development, and revised pavement sections developed, as necessary. Based on the laboratory testing that has been performed (see Figure B8 in Appendix B), a subgrade R-Value of 5 considered applicable for design purposes and have been used to develop the pavement sections are given below. The asphalt concrete (AC) structural section recommendations given herein were developed using the procedures outlined in Chapter 630 of the California Highway Design Manual. The design procedure is based on the principle that the pavement structural section must be of adequate thickness to distribute the load from the design TI to the subgrade soils in such a manner that the stresses from the applied loads do not exceed the strength of the soil (R-Value). Recommended minimum structural sections the planned pavement sections are given below:

Recommended minimum structural sections for <u>Option 1: Non-expansive Import</u> (assumed R-Value of 30) are given below:

Design TI	Recommended Minimum AC Pavement Section		
≤ 5.0	2.5" AC over 6.5" Class 2 AB		
5.5	3.0" AC over 7.0" Class 2 AB		
6.0	3.0" AC over 8.5" Class 2 AB		
7.0	4.0" AC over 9.5" Class 2 AB		
8.0	4.5" AC over 11.5" Class 2 AB		

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 1: Non-expansive Import</u> (assumed R-Value of 30) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section		
≤ 5.0	6.0" PCC over 4" Class 2 AB		
5.5	6.5" PCC over 4" Class 2 AB		
6.0	6.5" PCC over 5" Class 2 AB		
7.0	7.0" PCC over 5" Class 2 AB		
8.0	7.5" PCC over 5" Class 2 AB		

Recommended minimum pavement sections for <u>Option 2: Lime Treated Subgrade</u> (assumed R-Value of 50) are provided in the table below:

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Design TI	Recommended Minimum AC Pavement Section			
≤ 5.0	2.5" AC over 3.0" Class 2 AB			
5.5	3.0" AC over 3.0" Class 2 AB			
6.0	3.0" AC over 4.0" Class 2 AB			
7.0	4.0" AC over 4.5" Class 2 AB			
8.0	4.5" AC over 6.0" Class 2 AB			

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 2: Lime Treated Subgrade</u> (assumed R-Value of 50) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section		
≤ 5.0	5.5" PCC over 3" Class 2 AB		
5.5	5.5" PCC over 4" Class 2 AB		
6.0	6.0" PCC over 4" Class 2 AB		
7.0	6.5" PCC over 4" Class 2 AB		
8.0	6.5" PCC over 4" Class 2 AB		

Recommended minimum pavement sections for Option 3: Existing On-site Soils (R-Value of 5) are provided in the table below:

Design TI	Recommended Minimum
Design 11	AC Pavement Section
≤ 5.0	2.5" AC over 11.0" Class 2 AB
5.5	3.0" AC over 11.5" Class 2 AB
6.0	3.0" AC over 13.5" Class 2 AB
7.0	4.0" AC over 15.5" Class 2 AB
8.0	4.5" AC over 18.5" Class 2 AB

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 3: Existing On-site Soils</u> (R-Value of 5) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section			
≤ 5.0	6.0" PCC over 4" Class 2 AB			
5.5	6.5" PCC over 4" Class 2 AB			
6.0	6.5" PCC over 5" Class 2 AB			
7.0	7.0" PCC over 5" Class 2 AB			
8.0	7.5" PCC over 5" Class 2 AB			

The pavement must be carefully sealed at seams and construction joints and periodically maintained in order to prevent infiltration of surface water into the underlying subgrade. Introduction of water into the lime treated subgrade soils after some time can cause hydration of the lime treated soils including minerals formed by the soil-lime mixing. This hydration process can contribute to expansion of a mineral in the lime treated mix which potentially can cause distress in the pavement structure.

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Prior to paving, the subgrade should be prepared in accordance with the Earthwork Recommendations Section of this report. At a minimum, the upper 12 inches of subgrade soils should be compacted to at least 95% relative compaction. All aggregate base (AB) courses should be moisture conditioned to within 2% of optimum moisture content and compacted to a minimum of 95% relative compaction. The AC or PCC mix design(s) and installation requirements should be specified by the Project Civil Engineer.

3.22 Plan Review

Once formal grading and foundation plans are prepared for the subject project, this office should review the plans from a geotechnical viewpoint, comment on changes from the plan used during preparation of this report and revise the recommendations of this report where necessary.

3.23 Geotechnical Observation and Testing During Grading

The geotechnical engineer should be contacted to provide observation and testing during the following stages of grading:

- During the clearing and grubbing of the site.
- During the demolition of any existing structures, buried utilities or other existing improvements.
- During excavation and over-excavation of existing subgrade.
- During all phases of grading including ground preparation and filling operations.
- When any unusual conditions are encountered during grading.

A grading and compaction report summarizing conditions encountered during grading and the in-place density testing that was performed should be submitted upon completion of the earthwork construction.

3.24 Post-Grading Geotechnical Observation and Testing

After the completion of grading the geotechnical engineer should be contacted to provide additional observation and testing during the following construction activities:

- During trenching and backfilling operations of buried improvements and utilities to verify proper backfill and compaction of the utility trenches.
- After excavation and prior to placement of reinforcing steel or concrete within footing excavations to verify that footings are properly founded in competent materials.
- During fine or precise grading involving the placement of any fills underlying driveways, sidewalks, walkways, or other miscellaneous concrete flatwork to verify proper placement, mixing and compaction of fills.
- When any unusual ground or soil conditions are encountered during construction.



4.00 CLOSURE

The findings, conclusions and recommendations in this report were prepared in accordance with generally accepted engineering and geologic principles and practices. No other warranty, either express or implied, is made. This report has been prepared for the Firebaugh-Las Deltas Unified School District and other members of the Project Design Team to be used for the design and construction of improvements at the project site. Anyone using this report for any other purpose must draw their own conclusions regarding required construction procedures and subsurface conditions.

RMA GeoScience should be retained during the earthwork and foundation phases of construction to monitor compliance with the design concepts and recommendations and to provide additional recommendations as needed. Should subsurface conditions be encountered during construction that are different from those described in this report, this office should be notified immediately so that our recommendations may be re-evaluated.



FIGURES





FIGURE 1 SITE VICINITY MAP

PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Approximate Limits of the Subject Property

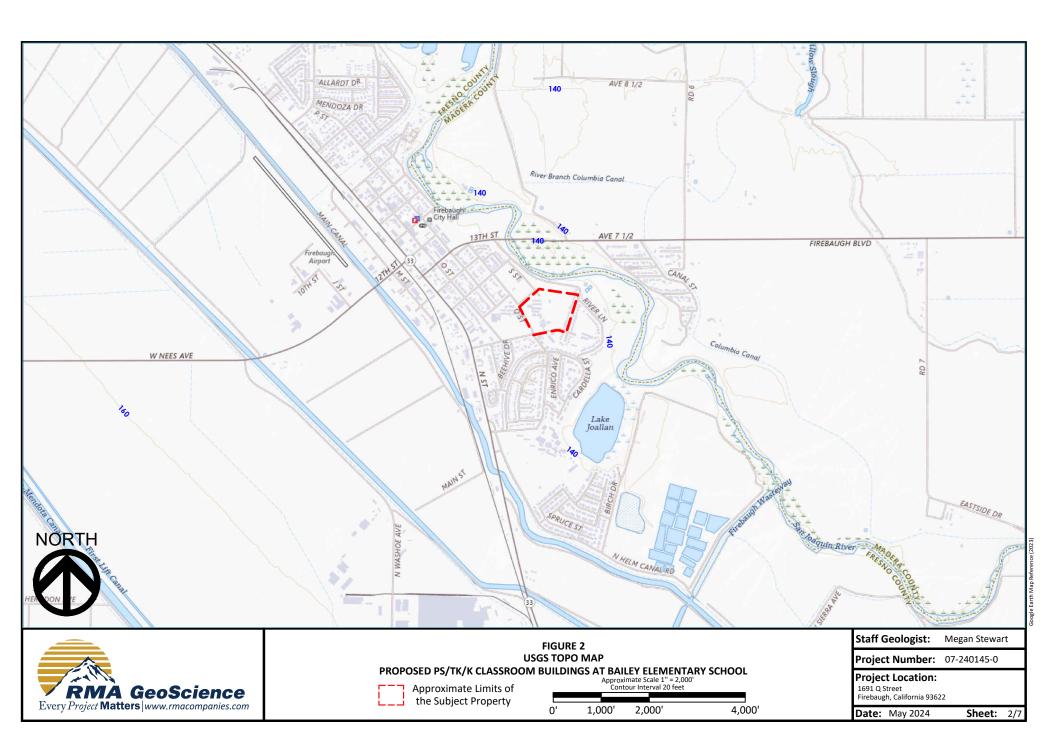
Approximate Scale 1 = 250					
0'	125'	250'		500'	

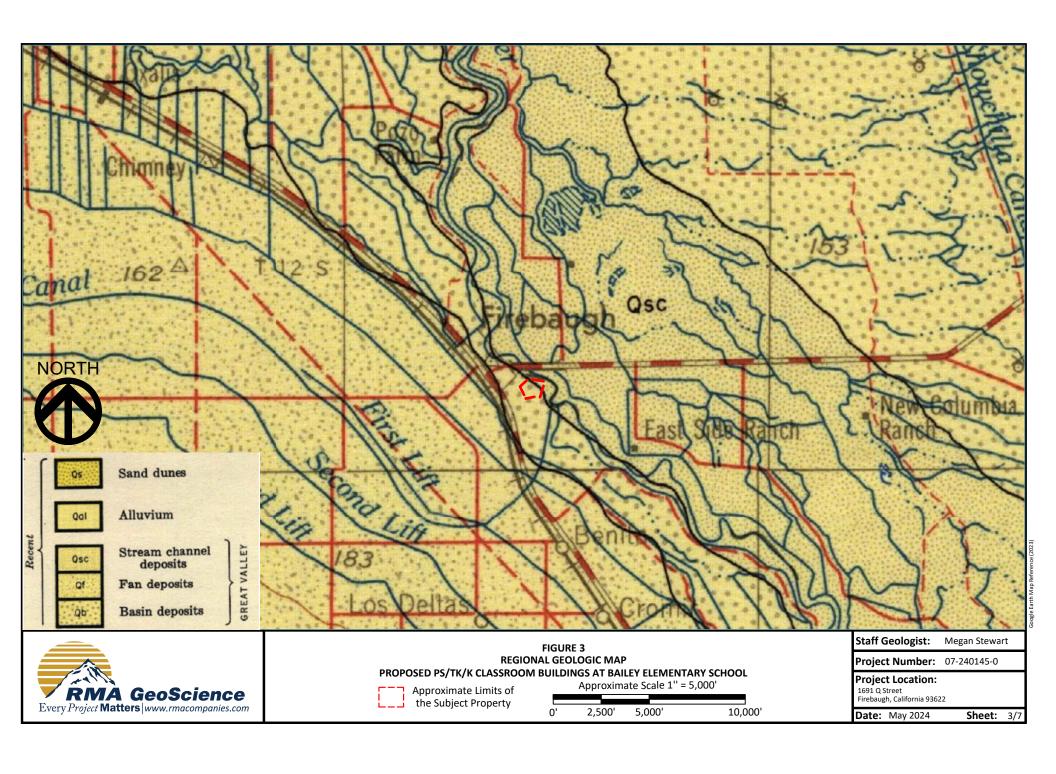
Staff Geologist: Megan Stewart

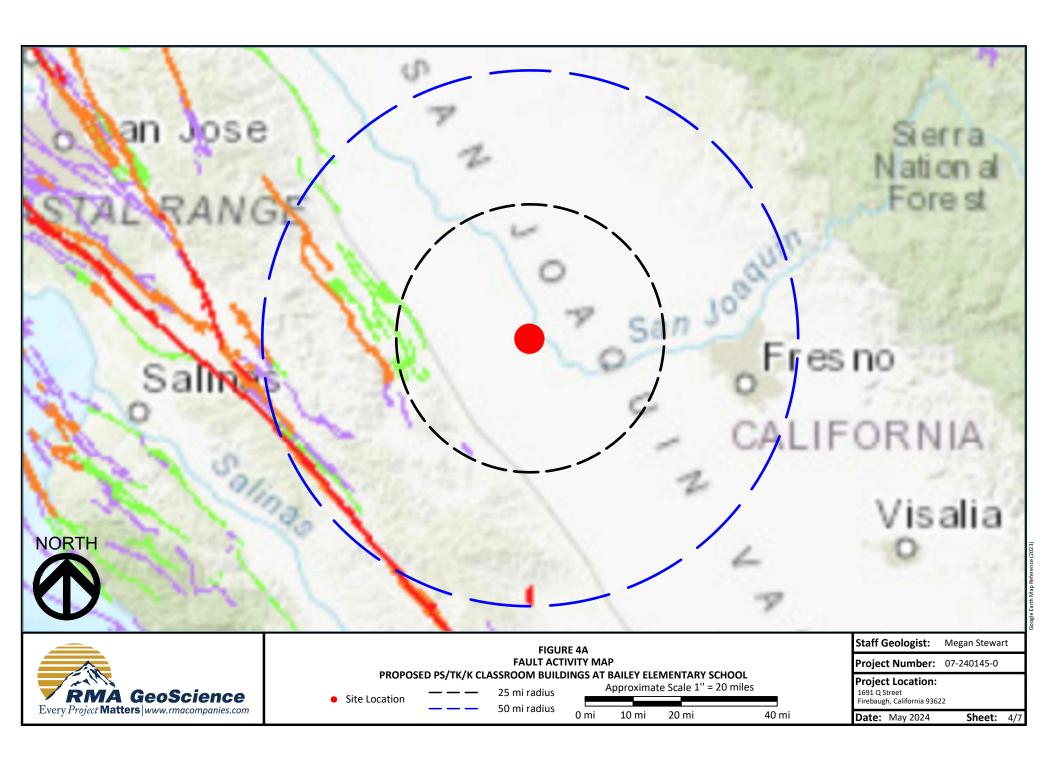
Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 Sheet: 1/7







	eologi	с	Years Before	Fault	Recency	DESCRIPTION	
	Time Scale		Present (Approx.)	Symbol	of Movement	ON LAND	OFFSHORE
	, j	Historic	200			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
	Quaternary	Holocene	— 11,700 —			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
Quaternary	Late (ne	700,000	—		Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
Qua	Early Quaternary	Pleistocene			- j.	Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary			— 1,600,000°——			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.
			(Age of Earth)				



FIGURE 4B

LEGEND FOR FAULT ACTIVITY MAP

PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Staff Geologist: Megan Stewart

Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 **Sheet:** 5/7

ogle Earth Map Refe

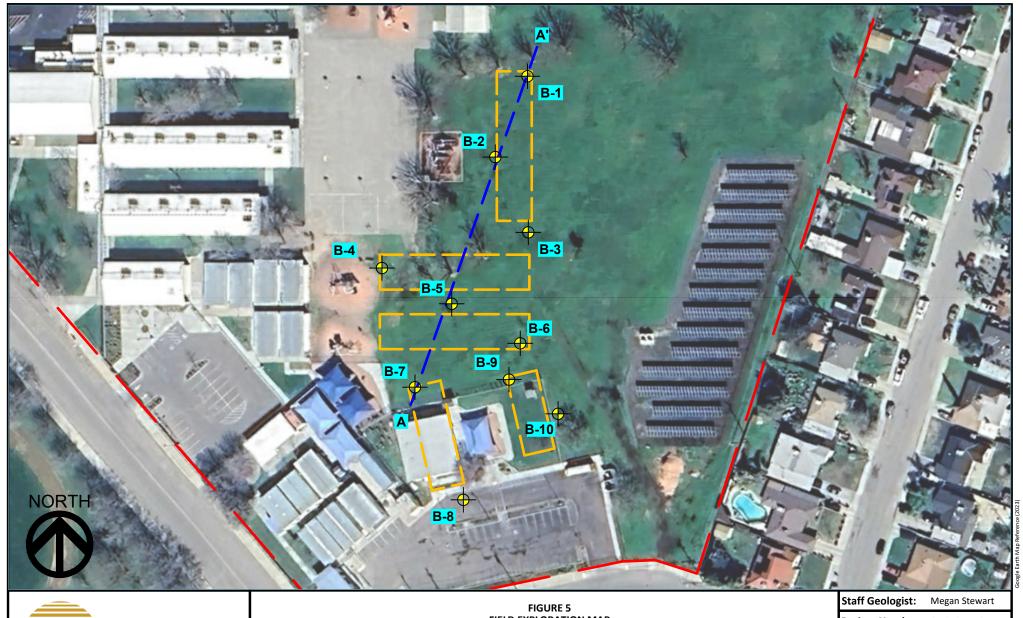




FIGURE 5 FIELD EXPLORATION MAP PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Approximate Limits of the Subject Property

Approximate Area of

Cross Section A to A'

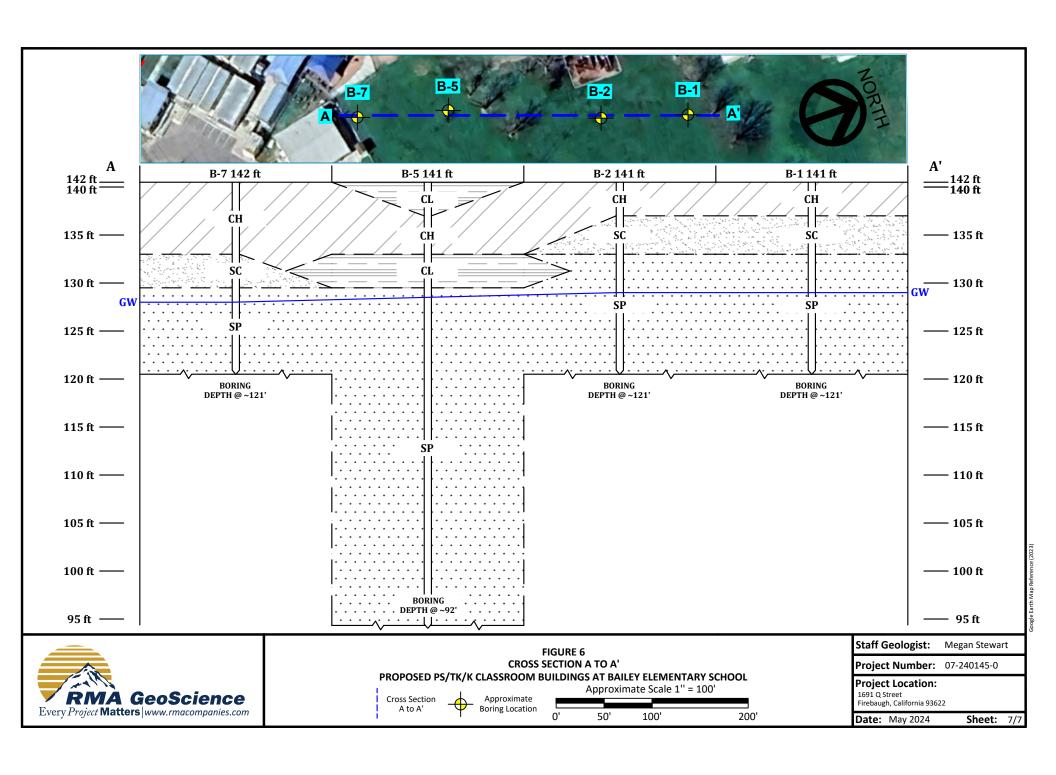
Approximate Boring Location

Approximate Scale 1" = 100'

50' 100' 200' Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 Sheet: 6/7







APPENDIX A

FIELD INVESTIGATION



APPENDIX A

FIELD INVESTIGATION

A-1.00 FIELD EXPLORATION

A-1.01 Number of Borings

Our subsurface investigation consisted of excavating ten test borings with a CME-45 drill rig equipped with a 4-inch solid stem auger, or a 7-inch hollow stem auger, and a 140-pound auto-hammer to a maximum depth of approximately 50 feet below existing grade. The test borings were excavated on April 17 and 18, 2024.

A-1.02 Location of Borings

The approximate locations of the borings are shown on Figure 5, Boring Location Map. GPS coordinates indicated on the logs are based on information provided by Google Earth Pro.

A-1.03 Logging Borings

Boring logs were prepared by one of our staff and are included in this appendix. The logs contain factual information and interpretation of subsurface conditions between samples. The stratum indicated on the boring logs represents the approximate boundary between earth units and the transition may be gradual. The logs show subsurface conditions at the dates and locations indicated and may not be representative of subsurface conditions at other locations and times.

Identification of the soils encountered during the subsurface exploration was made using the field identification procedure of the Unified Soils Classification System (ASTM D2488). A legend defining the terms used in describing the relative compaction, consistency or firmness of the soil, and moisture level is provided on the following page. Bag, ring, or tube samples of the major earth units were obtained for laboratory inspection and testing.



I. SOIL STRENGTH/DENSITY

BASED ON STANDARD PENETRATION TESTS

Compactness of sand

Consistency of clay

Penetration Resistance N. Consistency Of Consistency O

Penetration Resistance N (blows/ft)	Compactness	Penetration Resistance N (blows/ft)	Consistency
0-4	Very Loose	<2	Very Soft
4-10	Loose	2-4	Soft
10-30	Medium Dense	4-8	Medium Stiff
30-50	Dense	8-15	Stiff
>50	Very Dense	15-30	Very Stiff
		>30	Hard

N = Number of blows of 140 lb. weight falling 30 in. to drive 2-in OD sampler 1 ft. (corrected)

BASED ON RELATIVE COMPACTION

Compactness	of sand	Consistency of clay			
% Compaction	Compactness	% Compaction	Consistency		
<75	Loose	<80	Soft		
75-83	Medium Dense	80-85	Medium Stiff		
83-90	Dense	85-90	Stiff		
>90	Very Dense	>90	Very Stiff		

II. SOIL MOISTURE

Moisture of	sands	Moisture of clays			
% Moisture	Description	% Moisture	Description		
<5%	Dry	<12%	Dry		
5-12%	Moist	12-20%	Moist		
>12%	Very Moist, wet	>20%	Very Moist, wet		



IITS	COR 8155		Jin 12in
PARTICLE SIZE LIMITS	GRAVEL	ω Luc	3M in
		COARSE	Ra.4
	SAND	MEDINA	Ha.40 Ha.10 U.S. STANDARD SIEVE SIZE
	S	3183	Ho.200 Ho.
	SILTORCLAY		Ra

MAJO	R DIVISIONS		GROU SYMBO		TYPICAL NAMES
		CLEAN	000	GW	Well graded gravel, gravel-sand mixtures. little or no fines.
	GRAVELS	GRAVELS	0.0	GP	Poorly graded gravel or gravel-sand mixtures, little or no fines.
	(More than 50% of coarse fraction is LARGER than the No. 4 sleve size.	GRAVELS	0 0	GM	Sity gravels, gravel-sand-sit mixtures
COARSE GRAINED		WITH FINES (Appreciable ant. offines)	6/2	GC	Clayey gravels, gravel-sand-clay mixtures.
SOILS (More than 50% of material is LARGER		CLEAN		SW	Well graded sands, gravely sands, little or no fines.
than No. 200 ateve size)	SANDS (More than 50% of course fraction is 5MALER than the No. 4 store stre)	(Little or no fines)		SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS		SM	Sity sands, sand-sit mixtures.
		WITH FINES (Appreciable smount of fines)		sc	Clayey sands, sand-clay mixtures.
					Inorganic sits and very fine sands, rock four sity or clayey fine-sands or clayey sits with slight plasticity
	SILTS AND			CL	Inorganic days of low to medium plasticity, gravelly clays, sandy days, sity days, lean clays.
FINE GRAINED				OL	Organic sits and organic sity clays of low plasticity.
SOILS (More than 50% of material is SMALLER				МН	Inorganic sits, micaceous or distamaceous fine sandy or sity sois, elastic sits.
than No. 200 sleve size)		SILTS AND CLAYS (Liguid limit GREATER than 50)		СН	inorganic days of high plasticity, fat clays.
			ОН	Organic days of medium to high plasticity, organic sits.	
Н	IIGHLY ORGANI	C SOILS		Pt	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: So its possessing characteristics of two groups are designated by combinations of group symbols.



Exploratory Boring Log

Boring No. B-1

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.854431°, -120.445662° Drop Height: 30"

Position:	3	6.8544	31°, -1	20.44566	62°			Drop Height: 30"
	5	Sample	s		ty			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	20		26.5	100.3	СН		ALLUVIUM: black, SILTY CLAY, very moist, very stiff
5 —	R	19		13.1	123.4	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
10 —	s	9						Light gray brown, fine to coarse SAND, dry, loosewith interlayers of SILTY SAND
-						SP		groundwater encountered at 12.5 feet, wet
15 —	S	9				51		gray
20 —	s	14						medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 12.5' 3. Boring backfilled with soil cuttings
-	- -							
30 —								
35 —	-							
- - -								
	1]		1]	l		

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

 $\stackrel{=}{\checkmark}$

- Groundwater

- End of Boring



Exploratory Boring Log

Boring No. B-2

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26 9542129 120 4457709 Uaiaht

Position:	3	6.8542	13°, -1	20.44577	70°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	10		33.0	89.9	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	17		16.2	118.2	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
10 —	R	15		11.1	98.0			Light gray, fine to coarse SAND, moist, medium dense
		13		11.1	96.0	SP		groundwater encountered at 12.5 feet, wet
15 —	S	5				51		gray, loose
20 —	s	11						medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 12.5' 3. Boring backfilled with soil cuttings
- -								
30 —								
35 —								
_ _ _								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample R - Modified California Ring Sample

Symbols:

- Groundwater

- End of Boring



Exploratory Boring Log

Boring No. B-3

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.854004°, -120.445660° Drop Height: 30"

Position:	3	6.8540	04°, -1	20.44566	60°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
-	R	11		30.5	93.4	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	25		12.1	127.2	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
10 —	s	7						Light gray, fine to coarse SAND, moist, loose
- -		,				SP		groundwater encountered at 13 feet, wet
15 —	S	7				51		gray
20 —	s	10						medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
- -	-							
30 —	-							
35 —	-							
- -								
			l		l			

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

 \subseteq

- Groundwater

- End of Boring



Exploratory Boring Log

Boring No. B-4

Sheet 1 of 1

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographi Position:	c 3	6.8539	18°, -1	20.44617	79°			Drop Height: 30"
Depth (ft)	Sample Type	Blows (fl/swold)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	Material Description This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
10 — 15 — 20 — 25 — 30 — 35 —	Sample Sample Type	swold 16 16 17 11 3 3 4	Bulk Sample	26.1 29.5	Od. Ard 97.3 94.2	ML CH CL SP	Grap	units and the transition may be gradual. The log show subsurface conditions at the date and
-	- - -							

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-5

Sheet 1 of 2

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Hollow Stem Auger

Logged By: GJV Borehole Diameter: 7"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853779°, -120.445930° Drop Height: 30"

Position:	3	6.8537	79°, -1	20.44593	30°			Drop Height: 30"
	5	Samples			Material Description			
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- - -	R	24		15.9	101.5	CL		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	13		24.8	97.1	СН		Dark gray brown, SILTY CLAY, very moist, stiff
10 —	s	9				CL		Brown, fine SANDY CLAY, moist, stiff, with white mineralizationwith interlayers of SAND
-	-							Light gray, fine to coarse SAND, moist, loose
15 —	R	9		17.7	113.9			groundwater encountered at 13.5 feet, wet gray
20 —	s	7						
25 —	R	12		18.4	112.8	SP		medium denseheaving sands below 25 feet
30 —	s	10						
35 —	S	20						

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

npie

- Groundwater

T - Modified California Tube Sample

R - Modified California Ring Sample

- En

Symbols:



Exploratory Boring Log

Boring No. B-5

Sheet 2 of 2

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Hollow Stem Auger

Logged By: GJV Borehole Diameter: 7"

Drive Weights: Location: See Boring Location Map 140 lbs. (Autohammer)

Geographic 36.853779° -120.445930° Dron Height

Position:	36	.85377	79°, -12	20.44593	80°			Drop Height: 30"
	Sa	amples	s	t t	ity		Graphic Symbol	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	Dry Densi (pcf) USCS		This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
5 — 10 — 15 — 20 — 35 — 35 — 35 — — — — — — — — — — — —		22				SP		Notes: 1. Boring terminated at approximately 50' 2. Groundwater encountered at 13.5' 3. Boring backfilled with soil cuttings

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-6

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26.9526660 120.4456720 Uaiaht

Position:	3	6.8536	66°, -1	20.44567	72°			Drop Height: 30"
	S	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	nscs	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	9		32.2	87.4	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	18		18.9	111.0	CL		Black, SILTY CLAY, moist, very stiff, with white mineralization
10 —	s	11						Light gray brown, fine to coarse SAND, moist, medium dense
- -		11				SP		groundwater encountered at 13 feet, wet
15 —	S	11				51		gray
20 —	s	7						with interlayers of SILTY SAND, loose
25 —	-							Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
30 —								
35 —	-							
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-7

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853543°, -120.446068° Drop Height: 30"

Geographic Position:	3	6.8535	43°, -1	20.44606	68°			Drop Height: 30"
	S	Sample	s	9 7	ity		0 =	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	11		30.3	93.3	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	16		29.9	96.3			very stiff
10 —	R	16		24.1	98.6	SM		Light gray brown, fine to medium SILTY SAND, very moist, medium dense
_								groundwater encountered at 13 feet, wet
15 —	S	5				SP		Gray, fine to coarse SAND, wet, loose
20 —	S	7						Notes: 1. Boring terminated at approximately 21'
25 —								Groundwater encountered at 13' Boring backfilled with soil cuttings
30 —								
35 —								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

 $\stackrel{\checkmark}{=}$

- Groundwater



Exploratory Boring Log

Boring No. B-8

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26 9522429 120 4459059 Laight

Position:	3	6.8532	43°, -1	20.44589)5°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
_			В			SP		3" AC over 6" AB FILL: light gray brown, fine to medium SAND, moist, medium
-	R	13		25.5	102.9		7	dense
5—						СН		NATIVE: black, SILTY CLAY, very moist, stiff
-	R	12		26.0	94.9			
10 —	s					CL		Brown, fine SANDY CLAY, moist, stiff
	3	12						Light gray brown, fine to medium SAND, moist, medium dense
15 —								groundwater encountered at 13.5 feet, wet
-	S	9				SP		loose
_								
20 —	S	13						medium dense
_								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13.5'
25 —								Boring backfilled with soil cuttings
_								
30 —								
_								
35—								
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

R - Modified California Ring Sample

T - Modified California Tube Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-9

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853570°, -120.445728° Drop Height: 30'

Position:	3	6.8535	70°, -1	20.44572	28°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- - -	R	9		33.4	92.1	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	18		26.5	101.0			very stiff
10 —	s	7				ML/SM		Gray brown, fine SANDY SILT/SILTY SAND, moist, medium stiff
15 —	s	8				 SP		Light gray, fine to medium SAND, wet below 13 feet, loose
20 —	s	11				Si		medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
30 —	_ - -							
35—								
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

Bulk Sample

T - Modified California Tube Sample

Symbols:

<u>✓</u> - Groundwater



Exploratory Boring Log

Boring No. B-10

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853478°, -120.445573° Drop Height: 30"

Geographic Position:	3	6.8534	78°, -1	20.44557	73°			Drop Height: 30"
		Sample	s	re it	sity		c 1	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	nscs	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
-	R	10		25.1	101.0	CL	- 4 0	REWORKED/FILL: brown, fine SANDY CLAY, moist, stiff
-		10		23.1	101.0	CH		NATIVE: black, SILTY CLAY, very moist, stiff
5 —	R	21		28.4	93.0	СН		very stiff
_						SM		Brown, fine to medium SILTY SAND, moist, medium dense
10 —	R	29		6.1	117.5			Light gray, fine to medium SAND, moist, medium dense
_								
15 —	s	11				SP	<u>V</u>	groundwater encountered at 14 feet, wet
-								
20 —	s	12						
_		13						Notes:
_								Boring terminated at approximately 21' Groundwater encountered at 14'
25 —								Boring backfilled with soil cuttings
_								
_								
30 —								
_								
35 —								
_								
_								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

Bulk Sample

- Groundwater

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:



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APPENDIX B

LABORATORY TESTS



APPENDIX B

B-1.00 LABORATORY TESTS

B-1.01 Moisture Determination

The moisture content of tube and ring samples obtained from the test borings was determined in accordance with ASTM D2216, the standard method for determining the water content of soil using a drying oven. The mass of material remaining after oven drying is used as the mass of the solid particles. The results of these tests are provided on the boring logs in Appendix A.

B-1.02 Density of Split-Barrel Samples

The densities of ring and tube samples, which were obtained using a split-barrel sampler, were determined in accordance with ASTM D2937. The results of these tests are provided on the boring logs in Appendix A.

B-1.03 Soluble Sulfates and Chlorides

Tests were performed in accordance with California Test Methods 417 and 422 on two near-surface soil samples obtained during the field exploration. These tests were performed by Dellavalle Laboratory, Inc. located in Fresno, California (see Table B1 for results).

B-1.04 Soil Reactivity (pH) and Minimum Electrical Resistivity

Two near-surface soil samples were tested for soil reactivity (pH) and minimum electrical resistivity using California Test Method 643 (see Table B1). The pH measurement determines the degree of acidity or alkalinity in the soils. The minimum electrical resistivity is used as an indicator of how corrosive the soil is relative to buried metallic items.

TABLE B1: SUMMARY OF CORROSIVITY TESTS

Sample Location	Soluble Sulfates (mg/kg)	Soluble Chlorides (mg/kg)	рН	Minimum Resistivity (ohm-cm)
B-1 @ 1' - 3'	4,640.0	1,560.0	7.23	990
B-8 @ 1' – 3'	1,560.0	72.5	7.38	1,820

B-1.05 Percent Passing #200 Sieve

Five soil samples were tested in accordance with ASTM D1140 to determine the percent passing the #200 sieve (see Table B2). This represents the amount of silt and clay that is present in the soil.

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TABLE B2: PERCENT PASSING #200 SIEVE TEST RESULTS

Sample Location	Dry Weight Before Wash (grams)	Dry Weight After Wash (grams)	Percent Passing #200 Sieve
B-1 @ 5.5'	267.7	173.7	35
B-2 @ 10.5'	270.2	259.6	4
B-4 @ 1' - 3'	252.9	39.1	85
B-7 @ 10.5'	242.3	207.6	14
B-10 @ 1' - 3'	240.5	55.6	77

B-1.06 Atterberg Limits

The liquid limit, plastic limit, and the plasticity index of two near-surface soil samples were determined using the standard test methods of ASTM D4318 (See Figures B1 and B2).

B-1.07 Expansion Index

Expansion index testing was performed on a representative near-surface sample of the on-site soils in accordance with the standard test methods of ASTM D4829. The results of this test are shown on Figure B3.

B-1.08 Direct Shear

Two 3-point direct shear tests were performed on representative near-surface samples of soil using the standard test method of ASTM D3080 (consolidated and drained). The shear tests were performed on a direct shear machine of the strain-controlled type. To simulate possible adverse field conditions, the samples were saturated prior to shearing. Three soil specimens were sheared at varying normal loads for the test and the results plotted to establish the angle of the internal friction and cohesion of the tested sample. The results of this test are shown on Figures B4 and B5.

B-1.09 One-Dimensional Consolidation Properties

The magnitude and rate of consolidation of soils obtained from the test borings, when it is restrained laterally and drained axially while subjected to incrementally applied controlled-stress loading, was determined using the standard test methods of ASTM D2435. The results of these tests are shown on Figures B6 and B7.

B-1.10 Resistance Value

One Resistance Value (R-Value) test was performed on representative samples of subgrade obtained from the planned paved areas using test methods outlined in ASTM D2844 (see Figure B8).



Figure B1 Laboratory Test Form | ASTM D4318

Plasticity Index (PI) of Soils

Project Number: 07-240145-0/02 Lab ID: 24-015873

Project Name: New Classroom Buildings at Bailey ES Date Tested: 4/29/2024

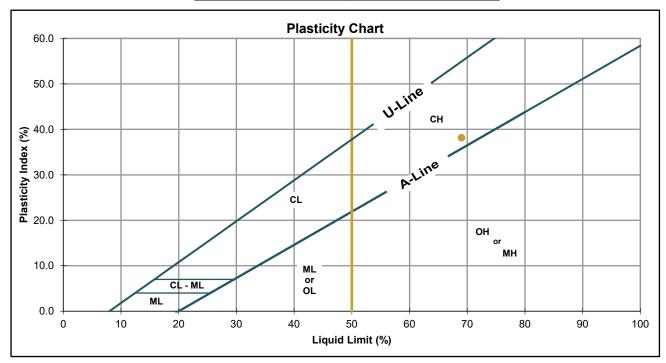
Sampled By: Gabe V. Tested By: Jason M.

Sample Date: 4/18/2024
Sample Location: B-2 @ 1ft - 3ft

Sample Description: Silty CLAY, high plasticity, black

Plasticity Index Results

Liquid Limit:	69
Average Plastic Limit :	31
Plasticity Index:	38



Liquid Limit Data Trial 1 Trial 2 Trial 3 Wet Weight (gm.) 16.58 17.02 17.64 Dry Weight (gm.) 13.45 13.65 13.94 Tare Weight (gm.) 8.67 8.75 8.79 Number of Blows 33 26 20 Moisture Content (%) 65.5 68.8 71.8

Plastic Limit Data Trial 1 Trial 2 Wet Weight (gm.) 25.11 26.3 Dry Weight (gm.) 23.86 24.75 Tare Weight (gm.) 19.73 19.82 Moisture Content (%) 30.3 31.4

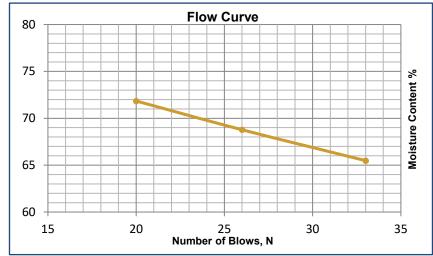




Figure B2 Laboratory Test Form | ASTM D4318

Plasticity Index (PI) of Soils

Project Number: 07-240145-0/02 Lab ID: 24-015890

Project Name: New Classroom Buildings at Bailey ES Date Tested: 4/29/2024

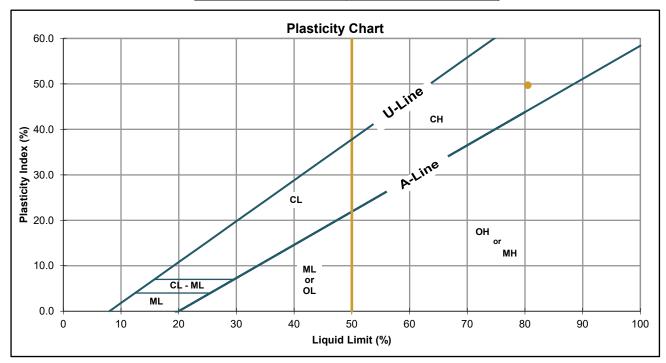
Sampled By: Gabe V. Tested By: Jason M.

Sample Date: 4/18/2024
Sample Location: B-9 @ 1ft - 3ft

Sample Description: Silty CLAY, high plasticity, black

Plasticity Index Results

Liquid Limit:	81
Average Plastic Limit :	31
Plasticity Index:	50



		quia Ellilli Di	atu
·	Trial 1	Trial 2	Trial 3
Wet Weight (gm.)	16.66	17.44	16.51
Dry Weight (gm.)		13.52	12.97
Tare Weight (gm.)	8.74	8.68	8.71
Number of Blows	33	24	19
Moisture Content (%)	77.6	81.0	83.1
		•	

Liquid Limit Data

	Plastic Limit Data				
	Trial 1 Trial 2				
Wet Weight (gm.)	25.37	26.26			
Dry Weight (gm.)	24.05	24.72			
Tare Weight (gm.)	19.73	19.75			
Moisture Content (%)	30.6	31.0			

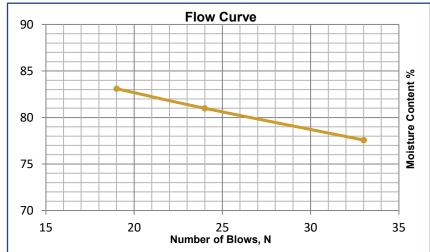




Figure B3

Laboratory Test Form | ASTM D4829 Expansion Index of Soils

Project Number: <u>07-240145-0/02</u>	Lab ID:	24-015860
Project Name: New Classroom Buildings at Bailey Elementary School	Date Sampled:	4/17/2024
Sampled By: Gabe V.	Date Tested:	4/25/2024
Tested By: Jason M.		
Sample Location: B-5 @ 1ft - 3ft		

Sample Description: Silty CLAY with interlayers of Sandy SILT, fine grained, black

Expansion Readings

Initial Sample Height (in):	0.0176
Final Sample Height (in):	0.0699
Expansion (in):	0.0523
Expansion Index. El:	52

Classification of Expansive Soil

El	Potential Expansion
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

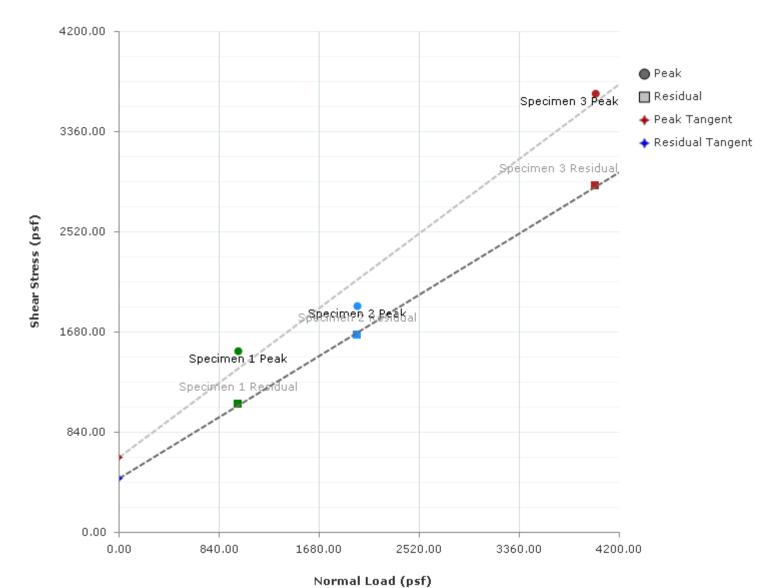
Expansion Index Data

	Expans	sion Index Data			
Initial Set-Up Data		Final Data			
Sample + Tare Weight (gm):	771.4	Sample + Tare Weight (gm):	792.4		
Tare Weight (gm):	365.6	Tare Weight (gm):	365.6		
Initial Gauge Reading (in): _	0.0051	Final Gauge Reading (in):	0.0552		
	Moisture Cor	itent And Density Data			
Wet Weight + Tare (gm):	100.0	Wet Weight + Tare (gm):	792.4		
Dry Weight + Tare (gm): _	91.4	Dry Weight + Tare (gm):	700.6		
Tare Weight (gm):	0	Tare Weight (gm):	365.6		
Moisture Content:	9.4%	Moisture Content:	27.4%		
Initial Volume (ft³):	0.007345	Final Volume (ft ³):	0.007653		
Remolded Wet Density (pcf):	121.8	Final Wet Density (pcf):	123.0		
Remolded Dry Density (pcf):	111.3	Final Dry Density (pcf):	96.5		
Degree of Saturation:	49	Assumed Specific Gravity:	2.7		
_					



Figure B4a - Direct Shear Test Shear Stress Vs. Normal Stress

ASTM D3080



gent Results	C (psf)	Phi (°)
ak Tangent:	627.68	36.7

 Peak Tangent:
 627.68
 36.7

 Residual Tangent:
 452.46
 31.4



Figure B4b - Direct Shear Test

ASTM D3080

Project: New Classroom Buildings at Bailey Elementary School

Project Number: 07-240145-0/02 Sampling Date: 4/18/2024

Sample Number: 6
Sample Depth: 5.5 ft
Location: B-3 @ 5.5ft

Client Name: Firebaugh-Las Deltas Unified School District

Soil: Clayey SAND, fine to coarse grained, gray brown

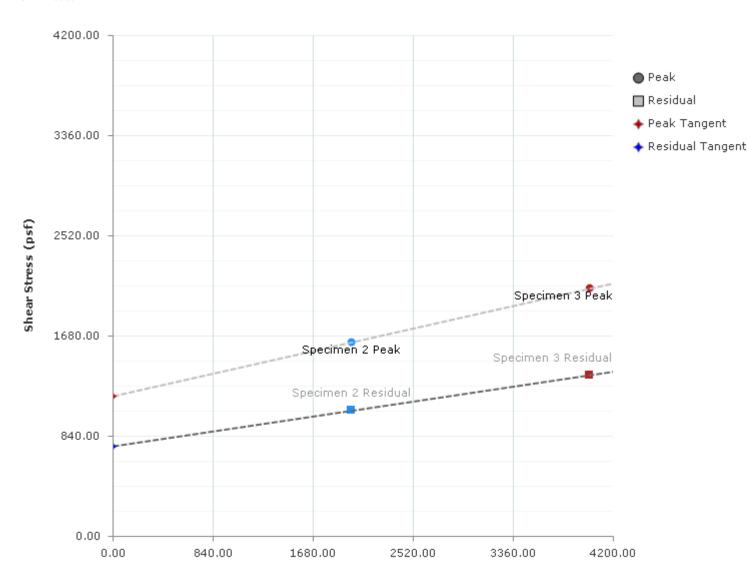
I. C. west's a Demonstrate			5	Specimen	Number			
Information Parameters	1	2	3	4	5	6	7	8
Liquid Limit:	0	0	0					
Plastic Limit:	0	0	0					
Specific Gravity:	2.66	2.66	2.66					
Specific Gravity Method:	ASSUMED	ASSUMED	ASSUMED					
Initial Parameters	1	2	3	4	5	6	7	8
Test Temperature (°C):	23.3	27.2	30.3					
Sample Shape:	ROUND	ROUND	ROUND					
Height (in):	1.0000	1.0000	1.0000					
Diameter (in):	2.4200	2.4200	2.4200					
Area (in²):	4.600	4.600	4.600					
Volume (in³):	4.5996	4.5996	4.5996					
Moisture (%):	12.8	11.4	13.1					
Dry Density (pcf):	116.7	119.9	116.0					
Wet Density (pcf):	131.7	133.6	131.2					
Saturation (%):	80.8	78.8	80.6					
Void Ratio:	0.423	0.385	0.431					
Porosity (%):	29.7	27.8	30.1					
Consolidation Parameters	1	2	3	4	5	6	7	8
Initial Reference Height (in):	1.0000	1.0000	1.0000					
Final Reference Height (in):	0.9893	0.9867	0.9804					
Height (in):	1.0000	0.9867	0.9804					
Final Parameters	1	2	3	4	5	6	7	8
Moisture Content (%)	16.9	14.3	14.8					
Dry Density (pcf):	116.7	121.5	118.4					
Wet Density (pcf):	136.4	138.9	135.9					
Saturation (%):	106.2	103.8	98.0					
Void Ratio:	0.423	0.366	0.403					
Porosity (%):	29.7	26.8	28.7					

(559) 228-9488 fax



Figure B5a - Direct Shear Test Shear Stress Vs. Normal Stress

ASTM D3080



Normal	Load	(pst)
--------	------	-------

Tangent Results	C (psf)	Phi (°)
Peak Tangent:	1176.21	12.7
Residual Tangent:	758.19	8.5



Figure B5b - Direct Shear Test

ASTM D3080

Project: New Classroom Buildings at Baliey Elementary School

Project Number: 07-240145-0/02 Sampling Date: 4/18/2024

Sample Number: 20
Sample Depth: 5.5 ft
Location: B-8 @ 5.5ft

Client Name: Firebaugh-Las Deltas Unified School District

Soil: Silty CLAY, gray brown

To Comment's an Demonstrate				Specimen	Number			
Information Parameters	1	2	3	4	5	6	7	8
Liquid Limit:	81	81	81					
Plastic Limit:	31	31	31					
Specific Gravity:	2.7	2.7	2.7					
Specific Gravity Method:	ASSUMED	ASSUMED	ASSUMED					
Initial Parameters	1	2	3	4	5	6	7	8
Test Temperature (°C):	31.5	31.4	32.7					
Sample Shape:	ROUND	ROUND	ROUND					
Height (in):	1.0000	1.0000	1.0000					
Diameter (in):	2.4200	2.4200	2.4200					
Area (in²):	4.600	4.600	4.600					
Volume (in³):	4.5996	4.5996	4.5996					
Moisture (%):	28.3	28.8	30.1					
Dry Density (pcf):	90.1	88.7	89.9					
Wet Density (pcf):	115.6	114.2	116.9					
Saturation (%):	87.8	86.3	92.9					
Void Ratio:	0.870	0.900	0.876					
Porosity (%):	46.5	47.4	46.7					
Consolidation Parameters	1	2	3	4	5	6	7	8
Initial Reference Height (in):	1.0000	1.0000	1.0000					
Final Reference Height (in):	0.9951	0.9884	0.9804					
Height (in):	0.9951	0.9884	0.9804					
Final Parameters	1	2	3	4	5	6	7	8
Moisture Content (%)	31.3	30.6	31.3					
Dry Density (pcf):	90.6	89.7	91.7					
Wet Density (pcf):	118.9	117.2	120.4					
Saturation (%):	98.2	94.2	100.8					
Void Ratio:	0.861	0.878	0.839					
Porosity (%):	46.3	46.8	45.6					



Figure B6a

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate

Project Number: _	07-240145-0/02	Lab ID:	24-015879
Project Name:	New Classroom Buildings at Bailey ES	Date Sampled:	4/18/2024
Sampled By:	Gabe V.	Date Tested:	4/22/24 - 5/6/24
Tested By:	Jennifer K.		
Sample Location:	B-3 @ 5.5ft		
Sample Description:	Clayey SAND, fine to coarse grained, gray brown	า	
Sample Preparation:	In-Situ Ring Sample		

Consolidation Test Data

Consolidation Test Data				
Initial Data		Final D)ata	
Initial Sample Height (in):	1.0000	Final Sample Height (in):	0.9748	
Intial Void Ratio:	0.24	Final Void Ratio:	0.21	
Initial Gauge Reading (in):	0.2474	Final Gauge Reading (in):	0.2726	
	Moisture Conter	nt and Density Data		
Intial Wet Weight + Tare (gm):	205.30	Final Wet Weight + Tare (gm):	207.60	
Intial Dry Weight + Tare (gm):	197.00	Final Dry Weight + Tare (gm):	197.00	
Tare Weight (gm):	43.70	Tare Weight (gm):	43.70	
Initial Moisture Content:	5.41%	Final Moisture Content:	6.91%	
Initial Volume (ft ³):	0.002531	Final Volume (ft ³):	0.002468	
Initial Wet Density (pcf):	140.74	Final Wet Density (pcf):	146.43	
Initial Dry Density (pcf):	133.51	Final Dry Density (pcf):	136.96	
Initial Degree of Saturation:	55.8	Final Degree of Saturation:	81.1	

Moisture Condition	Load (nef)	Dial Reading (in)	Sample Height (in)	Axial Strain (%)
Moisture Condition	Loau (psi)	Dial Reading (III)	Sample Height (III)	Axiai Straiii (/0)
In Situ	0	0.2474	1.0000	0.00
	100	0.2475	0.9999	0.01
	250	0.2475	0.9999	0.01
Saturated	250	0.2474	1.0000	0.00
	500	0.2475	0.9999	0.01
	1000	0.2485	0.9989	0.11
	2000	0.2554	0.9920	0.80
	4000	0.2656	0.9818	1.82
	8000	0.2794	0.9680	3.20
	4000	0.2783	0.9691	3.09
	2000	0.2761	0.9713	2.87
	1000	0.2726	0.9748	2.52

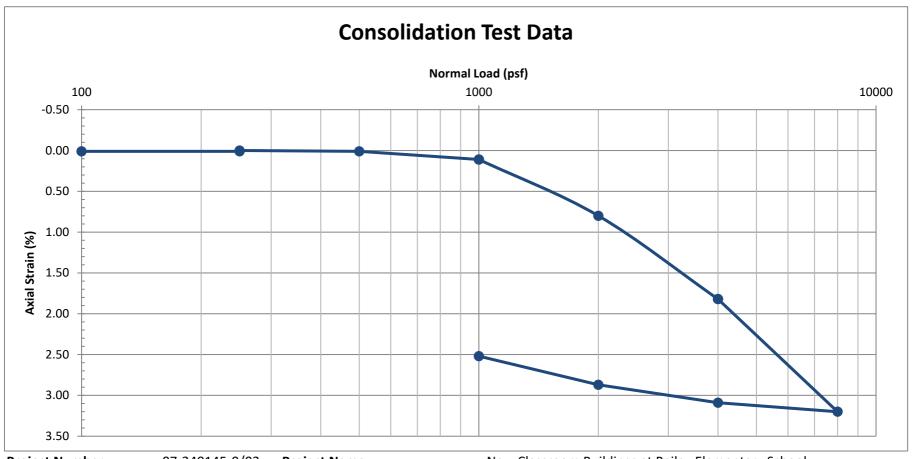
 $Results \ relate \ only \ to \ the \ items \ inspected \ or \ tested. \ Report \ shall \ not \ be \ reproduced, \ expect \ in \ full, \ without \ written \ approval \ of \ the \ agency.$

(As required by ASTM E-329-23)



Figure B6b

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate



Project Number:

07-240145-0/02

Project Name:

New Classroom Buildings at Bailey Elementary School

Date Tested:

4/22/24 - 5/6/24

Lab ID:

24-015879 SC

Sample Location: Sampled By:

B-3 @ 5.5ft Gabe V.

Tested By: Jennifer K. **Description:**



Figure B7a

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate

Project Number: _	07-240145-0/02	_ Lab ID:	24-015895
Project Name:	New Classroom Buildings at Bailey ES	Date Sampled:	4/18/2024
Sampled By:	Gabe V.	Date Tested:	4/22/24 - 5/6/24
Tested By:	Jennifer K.		
Sample Location:	B-10 @ 5.5ft		
Sample Description:	Silty CLAY, black		
Sample Preparation:	In-Situ Ring Sample		

Consolidation Test Data

Consolidation Test Data				
	Final D)ata		
1.0000	Final Sample Height (in):	0.9814		
0.46	Final Void Ratio:	0.43		
0.2460	Final Gauge Reading (in):	0.2646		
Moisture Content and Density Data				
185.40	Final Wet Weight + Tare (gm):	192.40		
174.10	Final Dry Weight + Tare (gm):	174.10		
43.70	Tare Weight (gm):	43.70		
8.67%	Final Moisture Content:	14.03%		
0.002531	Final Volume (ft ³):	0.002484		
123.41	Final Wet Density (pcf):	131.96		
113.56	Final Dry Density (pcf):	115.72		
48.4	Final Degree of Saturation:	83.1		
	1.0000 0.46 0.2460 Moisture Conter 185.40 174.10 43.70 8.67% 0.002531 123.41 113.56	Final End of End		

Moisture Condition	Load (psf)	Dial Reading (in)	Sample Height (in)	Axial Strain (%)
In Situ	0	0.2460	1.0000	0.00
	100	0.2460	1.0000	0.00
	250	0.2448	1.0012	-0.12
Saturated	250	0.2444	1.0016	-0.16
	500	0.2444	1.0016	-0.16
	1000	0.2444	1.0016	-0.16
	2000	0.2444	1.0016	-0.16
	4000	0.2574	0.9886	1.14
	8000	0.2907	0.9553	4.47
	4000	0.2819	0.9641	3.59
	2000	0.2691	0.9769	2.31
	1000	0.2646	0.9814	1.86

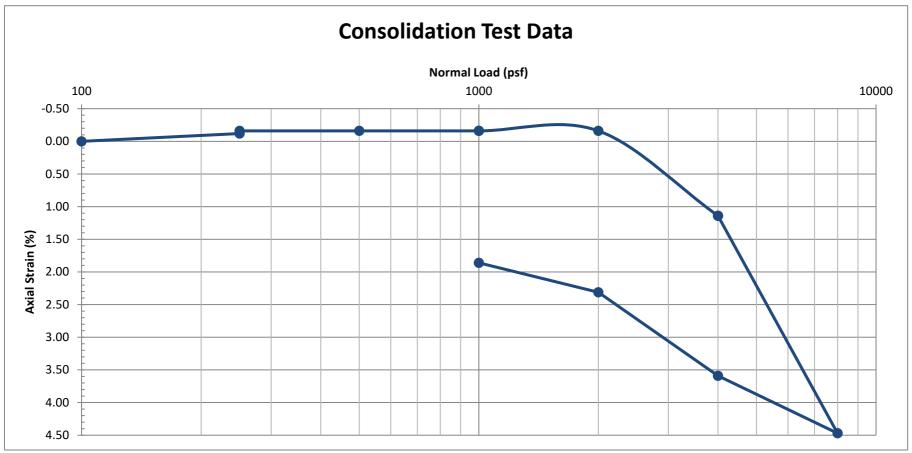
 $Results \ relate \ only \ to \ the \ items \ inspected \ or \ tested. \ Report \ shall \ not \ be \ reproduced, \ expect \ in \ full, \ without \ written \ approval \ of \ the \ agency.$

(As required by ASTM E-329-23)



Figure B7b

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate



Project Number:

07-240145-0/02

Project Name:

New Clasroom Buildings at Bailey Elementary School

Date Tested:

4/22/24 - 5/6/24

Lab ID:

24-015895

Sample Location:

B-10 @ 5.5ft

Tested By:

Jennifer K.

Description:

CL

Sampled By:

Gabe V.



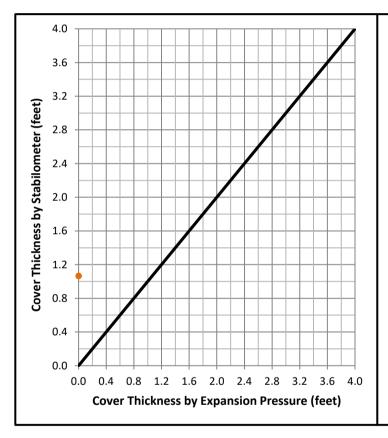
Figure B8 Laboratory Test Form | ASTM D2844

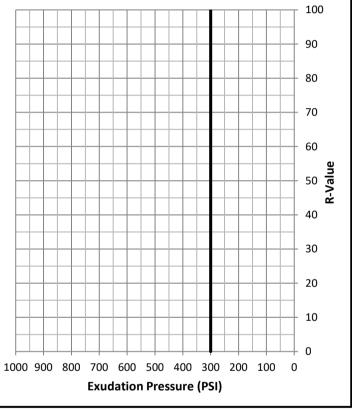
Resistance "R-Value" and Expansion Pressure of Compacted Soil

Project Number: 07-240145-0/02

New Classroom Buildings at Bailey ES Lab ID: Project Name: 24-015897 Sampled By: 4/18/2024 Gabe V. Date Sampled: Tested By: Jason M. Date Tested: 4/25/2024 Sample Location: RV-1 @ 0.5ft - 3ft Description: Silty CLAY, high plasticity, black

"R" Value at 300psi Exudation Pressure: < 5
"R" Value by Expansion Pressure: N/A





Specimen:	1	2	3
Exudation Pressure Load (lbs):			
Exudation Pressure (psi):			
Expansion * (0.0001 in):			
Expansion Pressure (psf):			
Stabilometer Value at 2000 lbs:		R-Value <	5
Displacement:		N-value >	3
Resistance "R" Value:			
"R" Value Corrected for Height:			
Percent Moisture at Test:			
Dry Density at Test (pcf):			





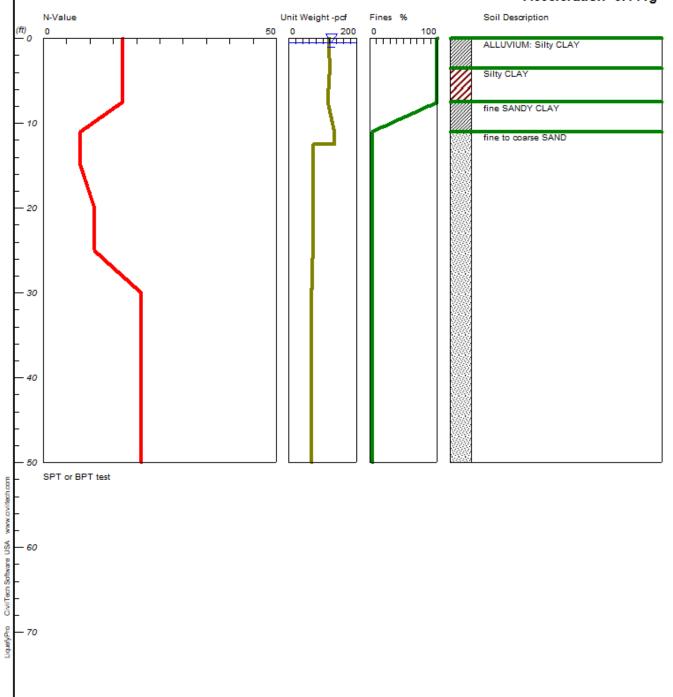
APPENDIX C

LIQUIFACTION AND SEISMIC SETTLEMENT ANALYSIS (Figures and Analysis Summary)

Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=0.5 ft Surface Elev.=141

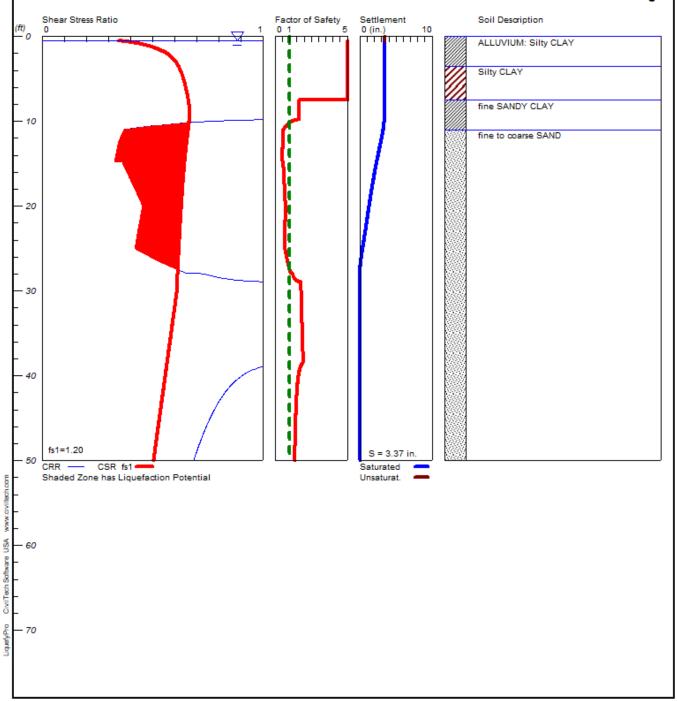
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=0.5 ft Surface Elev.=141

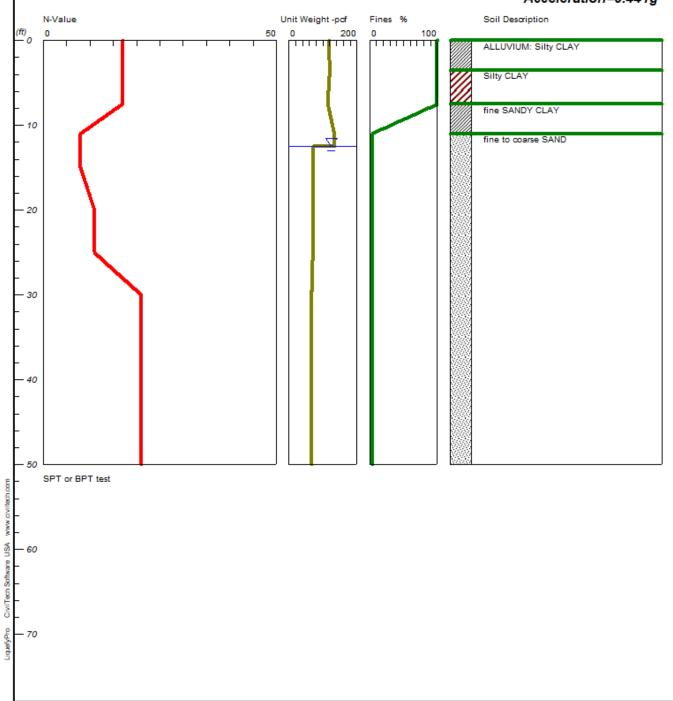
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=12.5 ft Surface Elev.=141

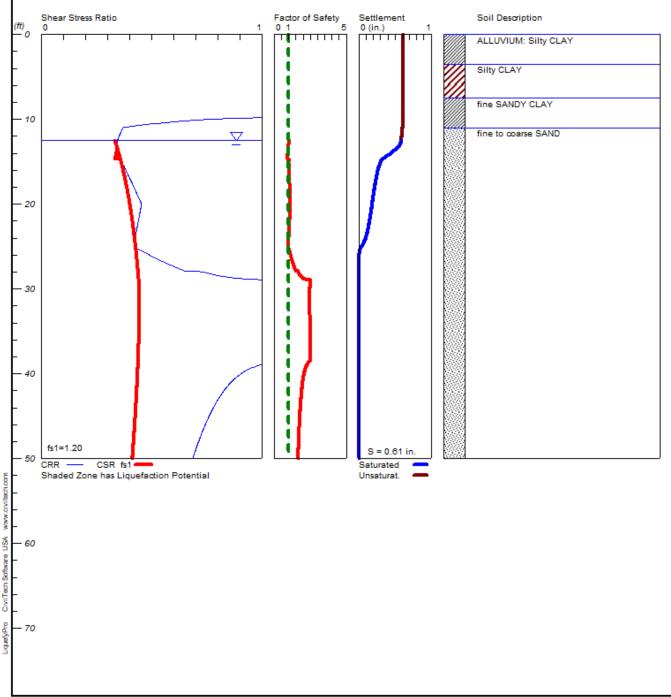
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=12.5 ft Surface Elev.=141

Magnitude=5.5 Acceleration=0.441g



LIQUEFACTION ANALYSIS SUMMARY Copyright by CivilTech Software

www.civiltech.com

Font: Courier New, Regular, Size 8 is recommended for this report.

Licensed to , 6/27/2024 2:49:44 PM

Input File Name: C:\Users\Engineering\Desktop\07-240145-0.liq

Title: Proposed Classroom Buildings at Bailey Elementary

Subtitle: 07-240145-0

Surface Elev.=141

Hole No.=B-5

Depth of Hole= 50.00 ft

Water Table during Earthquake= 0.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration= 0.44 g

Earthquake Magnitude= 5.50

Input Data:

Surface Elev.=141

Hole No.=B-5

Depth of Hole=50.00 ft

Water Table during Earthquake= 0.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration=0.44 g

Earthquake Magnitude=5.50

No-Liquefiable Soils: Based on Analysis

- 1. SPT or BPT Calculation.
- 2. Settlement Analysis Method: Tokimatsu, M-correction
- 3. Fines Correction for Liquefaction: Stark/Olson et al.*
- 4. Fine Correction for Settlement: During Liquefaction*
- 5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.5

7. Borehole Diameter,

Cb=1

8. Sampling Method,

 $C_{S} = 1.2$

9. User request factor of safety (apply to CSR), User= 1.2 Plot one CSR curve (fs1=User)

10. Use Curve Smoothing: Yes*

* Recommended Options

In-Situ Test Data:

Depth SPT gamma Fines

ft pcf %

0.00 17.00 117.70 NoLiq 3.50 17.00 121.10 NoLiq

7.50 17.0	0 115.	.00	NoL	iq	
11.00	8.00 134.	10	4.00		
15.00	8.00 134.	10	4.00		
20.00	11.00	133.	60	4.00	
25.00	11.00	133.	60	4.00	
30.00	21.00	130.	00	4.00	
35.00	21.00	130.	00	4.00	
40.00	21.00	130.	00	4.00	
45.00	21.00	130.	00	4.00	

Output Results:

Settlement of Saturated Sands=3.37 in.

Settlement of Unsaturated Sands=0.00 in.

Total Settlement of Saturated and Unsaturated Sands=3.37 in.

Differential Settlement=1.685 to 2.225 in.

```
Depth
          CRRm
                    CSRfs
                              F.S. S sat.
                                             S dry
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ft
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0.00 2.00 0.34 5.00 3.37 0.00 3.37
0.05 2.00 0.34 5.00 3.37 0.00 3.37
0.10 2.00 0.34 5.00 3.37 0.00 3.37
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0.55 2.00 0.36 5.00 3.37 0.00 3.37
0.60 2.00 0.38 5.00 3.37 0.00 3.37
0.65 2.00 0.39 5.00 3.37 0.00 3.37
0.70 2.00 0.40 5.00 3.37 0.00 3.37
0.75 2.00 0.42 5.00 3.37 0.00 3.37
0.80 2.00 0.43 5.00 3.37 0.00 3.37
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0.95 2.00 0.46 5.00 3.37 0.00 3.37
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1.10 2.00 0.48 5.00 3.37 0.00 3.37
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1.60 2.00 0.54 5.00 3.37 0.00 3.37
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1.70 2.00 0.55 5.00 3.37 0.00 3.37 1.75 2.00 0.55 5.00 3.37 0.00 3.37 1.80 2.00 0.55 5.00 3.37 0.00 3.37 1.85 2.00 0.56 5.00 3.37 0.00 3.37 1.90 2.00 0.56 5.00 3.37 0.00 3.37 1.95 2.00 0.56 5.00 3.37 0.00 3.37 2.00 2.00 0.57 5.00 3.37 0.00 3.37 2.05 2.00 0.57 5.00 3.37 0.00 3.37 2.10 2.00 0.57 5.00 3.37 0.00 3.37 2.15 2.00 0.57 5.00 3.37 0.00 3.37 2.20 2.00 0.58 5.00 3.37 0.00 3.37 2.25 2.00 0.58 5.00 3.37 0.00 3.37 2.30 2.00 0.58 5.00 3.37 0.00 3.37 2.35 2.00 0.58 5.00 3.37 0.00 3.37 2.40 2.00 0.59 5.00 3.37 0.00 3.37 2.45 2.00 0.59 5.00 3.37 0.00 3.37 2.50 2.00 0.59 5.00 3.37 0.00 3.37 2.55 2.00 0.59 5.00 3.37 0.00 3.37 2.60 2.00 0.59 5.00 3.37 0.00 3.37 2.65 2.00 0.60 5.00 3.37 0.00 3.37 2.70 2.00 0.60 5.00 3.37 0.00 3.37 2.75 2.00 0.60 5.00 3.37 0.00 3.37 2.80 2.00 0.60 5.00 3.37 0.00 3.37 2.85 2.00 0.60 5.00 3.37 0.00 3.37 2.90 2.00 0.60 5.00 3.37 0.00 3.37 2.95 2.00 0.60 5.00 3.37 0.00 3.37 3.00 2.00 0.61 5.00 3.37 0.00 3.37 3.05 2.00 0.61 5.00 3.37 0.00 3.37 3.10 2.00 0.61 5.00 3.37 0.00 3.37 3.15 2.00 0.61 5.00 3.37 0.00 3.37 3.20 2.00 0.61 5.00 3.37 0.00 3.37 3.25 2.00 0.61 5.00 3.37 0.00 3.37 3.30 2.00 0.61 5.00 3.37 0.00 3.37 3.35 2.00 0.61 5.00 3.37 0.00 3.37 3.40 2.00 0.62 5.00 3.37 0.00 3.37 3.45 2.00 0.62 5.00 3.37 0.00 3.37 3.50 2.00 0.62 5.00 3.37 0.00 3.37 3.55 2.00 0.62 5.00 3.37 0.00 3.37 3.60 2.00 0.62 5.00 3.37 0.00 3.37 3.65 2.00 0.62 5.00 3.37 0.00 3.37 3.70 2.00 0.62 5.00 3.37 0.00 3.37 3.75 2.00 0.62 5.00 3.37 0.00 3.37 3.80 2.00 0.62 5.00 3.37 0.00 3.37 3.85 2.00 0.62 5.00 3.37 0.00 3.37 3.90 2.00 0.63 5.00 3.37 0.00 3.37 3.95 2.00 0.63 5.00 3.37 0.00 3.37 4.00 2.00 0.63 5.00 3.37 0.00 3.37 4.05 2.00 0.63 5.00 3.37 0.00 3.37 4.10 2.00 0.63 5.00 3.37 0.00 3.37 4.15 2.00 0.63 5.00 3.37 0.00 3.37 4.20 2.00 0.63 5.00 3.37 0.00 3.37 4.25 2.00 0.63 5.00 3.37 0.00 3.37 4.30 2.00 0.63 5.00 3.37 0.00 3.37 4.35 2.00 0.63 5.00 3.37 0.00 3.37 4.40 2.00 0.63 5.00 3.37 0.00 3.37 4.45 2.00 0.63 5.00 3.37 0.00 3.37 4.50 2.00 0.63 5.00 3.37 0.00 3.37 4.55 2.00 0.64 5.00 3.37 0.00 3.37 4.60 2.00 0.64 5.00 3.37 0.00 3.37 4.65 2.00 0.64 5.00 3.37 0.00 3.37 4.70 2.00 0.64 5.00 3.37 0.00 3.37 4.75 2.00 0.64 5.00 3.37 0.00 3.37 4.80 2.00 0.64 5.00 3.37 0.00 3.37 4.85 2.00 0.64 5.00 3.37 0.00 3.37 4.90 2.00 0.64 5.00 3.37 0.00 3.37 4.95 2.00 0.64 5.00 3.37 0.00 3.37 5.00 2.00 0.64 5.00 3.37 0.00 3.37 5.05 2.00 0.64 5.00 3.37 0.00 3.37 5.10 2.00 0.64 5.00 3.37 0.00 3.37 5.15 2.00 0.64 5.00 3.37 0.00 3.37 5.20 2.00 0.64 5.00 3.37 0.00 3.37 5.25 2.00 0.64 5.00 3.37 0.00 3.37 5.30 2.00 0.64 5.00 3.37 0.00 3.37 5.35 2.00 0.65 5.00 3.37 0.00 3.37 5.40 2.00 0.65 5.00 3.37 0.00 3.37 5.45 2.00 0.65 5.00 3.37 0.00 3.37 5.50 2.00 0.65 5.00 3.37 0.00 3.37 5.55 2.00 0.65 5.00 3.37 0.00 3.37 5.60 2.00 0.65 5.00 3.37 0.00 3.37 5.65 2.00 0.65 5.00 3.37 0.00 3.37 5.70 2.00 0.65 5.00 3.37 0.00 3.37 5.75 2.00 0.65 5.00 3.37 0.00 3.37 5.80 2.00 0.65 5.00 3.37 0.00 3.37 5.85 2.00 0.65 5.00 3.37 0.00 3.37 5.90 2.00 0.65 5.00 3.37 0.00 3.37 5.95 2.00 0.65 5.00 3.37 0.00 3.37 6.00 2.00 0.65 5.00 3.37 0.00 3.37 6.05 2.00 0.65 5.00 3.37 0.00 3.37 6.10 2.00 0.65 5.00 3.37 0.00 3.37 6.15 2.00 0.65 5.00 3.37 0.00 3.37 6.20 2.00 0.65 5.00 3.37 0.00 3.37 6.25 2.00 0.65 5.00 3.37 0.00 3.37 6.30 2.00 0.65 5.00 3.37 0.00 3.37 6.35 2.00 0.65 5.00 3.37 0.00 3.37 6.40 2.00 0.66 5.00 3.37 0.00 3.37 6.45 2.00 0.66 5.00 3.37 0.00 3.37 6.50 2.00 0.66 5.00 3.37 0.00 3.37 6.55 2.00 0.66 5.00 3.37 0.00 3.37 6.60 2.00 0.66 5.00 3.37 0.00 3.37 6.65 2.00 0.66 5.00 3.37 0.00 3.37 6.70 2.00 0.66 5.00 3.37 0.00 3.37 6.75 2.00 0.66 5.00 3.37 0.00 3.37 6.80 2.00 0.66 5.00 3.37 0.00 3.37 6.85 2.00 0.66 5.00 3.37 0.00 3.37 6.90 2.00 0.66 5.00 3.37 0.00 3.37 6.95 2.00 0.66 5.00 3.37 0.00 3.37 7.00 2.00 0.66 5.00 3.37 0.00 3.37 7.05 2.00 0.66 5.00 3.37 0.00 3.37 7.10 2.00 0.66 5.00 3.37 0.00 3.37 7.15 2.00 0.66 5.00 3.37 0.00 3.37 7.20 2.00 0.66 5.00 3.37 0.00 3.37 7.25 2.00 0.66 5.00 3.37 0.00 3.37 7.30 2.00 0.66 5.00 3.37 0.00 3.37 7.35 2.00 0.66 5.00 3.37 0.00 3.37 7.40 2.00 0.66 5.00 3.37 0.00 3.37 7.45 2.00 0.66 5.00 3.37 0.00 3.37 7.50 1.11 0.66 1.67 3.37 0.00 3.37 7.55 1.11 0.66 1.67 3.37 0.00 3.37 7.60 1.11 0.66 1.66 3.37 0.00 3.37 7.65 1.11 0.66 1.66 3.37 0.00 3.37 7.70 1.11 0.66 1.66 3.37 0.00 3.37 7.75 1.11 0.67 1.66 3.37 0.00 3.37 7.80 1.11 0.67 1.66 3.37 0.00 3.37 7.85 1.11 0.67 1.66 3.37 0.00 3.37 7.90 1.11 0.67 1.66 3.37 0.00 3.37 7.95 1.11 0.67 1.66 3.37 0.00 3.37 8.00 1.11 0.67 1.66 3.37 0.00 3.37 8.05 1.11 0.67 1.66 3.37 0.00 3.37 8.10 1.11 0.67 1.66 3.37 0.00 3.37 8.15 1.11 0.67 1.66 3.37 0.00 3.37 8.20 1.11 0.67 1.66 3.37 0.00 3.37 8.25 1.11 0.67 1.66 3.37 0.00 3.37 8.30 1.11 0.67 1.66 3.37 0.00 3.37 8.35 1.11 0.67 1.66 3.37 0.00 3.37 8.40 1.11 0.67 1.66 3.37 0.00 3.37 8.45 1.11 0.67 1.66 3.37 0.00 3.37 8.50 1.11 0.67 1.65 3.37 0.00 3.37 8.55 1.11 0.67 1.65 3.37 0.00 3.37 8.60 1.11 0.67 1.65 3.37 0.00 3.37 8.65 1.11 0.67 1.65 3.37 0.00 3.37 8.70 1.11 0.67 1.65 3.37 0.00 3.37 8.75 1.11 0.67 1.65 3.37 0.00 3.37 8.80 1.11 0.67 1.65 3.37 0.00 3.37 8.85 1.11 0.67 1.65 3.37 0.00 3.37 8.90 1.11 0.67 1.65 3.37 0.00 3.37 8.95 1.11 0.67 1.65 3.37 0.00 3.37 9.00 1.11 0.67 1.65 3.37 0.00 3.37 9.05 1.11 0.67 1.65 3.37 0.00 3.37 9.10 1.11 0.67 1.65 3.37 0.00 3.37 9.15 1.11 0.67 1.65 3.37 0.00 3.37 9.20 1.11 0.67 1.65 3.37 0.00 3.37 9.25 1.11 0.67 1.65 3.37 0.00 3.37 9.30 1.11 0.67 1.65 3.37 0.00 3.37 9.35 1.11 0.67 1.65 3.37 0.00 3.37 9.40 1.11 0.67 1.65 3.37 0.00 3.37 9.45 1.11 0.67 1.65 3.37 0.00 3.37 9.50 1.11 0.67 1.65 3.37 0.00 3.37 9.55 1.11 0.67 1.65 3.37 0.00 3.37 9.60 1.11 0.67 1.66 3.37 0.00 3.37 9.65 1.11 0.67 1.66 3.37 0.00 3.37 9.70 1.11 0.67 1.66 3.37 0.00 3.37 9.75 1.11 0.67 1.66 3.37 0.00 3.37 9.80 1.03 0.67 1.54 3.37 0.00 3.37 9.85 0.92 0.67 1.38 3.37 0.00 3.37 9.90 0.85 0.67 1.28 3.37 0.00 3.37 9.95 0.80 0.67 1.19 3.37 0.00 3.37 10.00 0.76 0.67 1.13 3.37 0.00 3.37 10.05 0.72 0.67 1.08 3.37 0.00 3.37 10.10 0.69 0.67 1.04 3.37 0.00 3.37 10.15 0.66 0.67 0.99* 3.37 0.00 3.37 10.20 0.64 0.67 0.96* 3.36 0.00 3.36 10.25 0.61 0.67 0.92* 3.36 0.00 3.36 10.30 0.59 0.67 0.89* 3.35 0.00 3.35 10.35 0.57 0.67 0.86* 3.35 0.00 3.35 10.40 0.55 0.67 0.83* 3.34 0.00 3.34 10.45 0.53 0.67 0.80* 3.34 0.00 3.34 10.50 0.52 0.67 0.78* 3.33 0.00 3.33 10.55 0.50 0.66 0.75* 3.32 0.00 3.32 10.60 0.48 0.66 0.73* 3.31 0.00 3.31 10.65 0.47 0.66 0.70* 3.30 0.00 3.30 10.70 0.45 0.66 0.68* 3.30 0.00 3.30 10.75 0.44 0.66 0.66* 3.29 0.00 3.29 10.80 0.42 0.66 0.64* 3.28 0.00 3.28 10.85 0.41 0.66 0.61* 3.27 0.00 3.27 10.90 0.39 0.66 0.59* 3.26 0.00 3.26 10.95 0.38 0.66 0.57* 3.25 0.00 3.25 11.00 0.37 0.66 0.56* 3.24 0.00 3.24 11.05 0.37 0.66 0.56* 3.22 0.00 3.22 3.21 0.00 3.21 11.10 0.37 0.66 0.56* 11.15 0.37 0.66 0.55* 3.20 0.00 3.20 11.20 0.37 0.66 0.55* 3.19 0.00 3.19 11.25 0.37 0.66 0.55* 3.18 0.00 3.18 11.30 0.36 0.66 0.55* 3.17 0.00 3.17 11.35 0.36 0.66 0.55* 3.16 0.00 3.16 11.40 0.36 0.66 0.55* 3.14 0.00 3.14 11.45 0.36 0.66 0.55* 3.13 0.00 3.13 11.50 0.36 0.66 0.55* 3.12 0.00 3.12 11.55 0.36 0.66 0.55* 3.11 0.00 3.11 11.60 0.36 0.66 0.54* 3.10 0.00 3.10 11.65 0.36 0.66 0.54* 3.09 0.00 3.09 11.70 0.36 0.66 0.54* 3.08 0.00 3.08 11.75 0.36 0.66 0.54* 3.06 0.00 3.06 11.80 0.36 0.66 0.54* 3.05 0.00 3.05 11.85 0.35 0.66 0.54* 3.04 0.00 3.04 11.90 0.35 0.66 0.54* 3.03 0.00 3.03 11.95 0.35 0.66 0.54* 3.02 0.00 3.02 12.00 0.35 0.66 0.54* 3.01 0.00 3.01 12.05 0.35 0.66 0.53* 2.99 0.00 2.99 12.10 2.98 0.00 2.98 0.35 0.66 0.53* 12.15 0.35 0.66 0.53* 2.97 0.00 2.97 12.20 0.35 0.66 0.53* 2.96 0.00 2.96 12.25 0.35 0.66 0.53* 2.95 0.00 2.95 12.30 0.35 0.66 0.53* 2.93 0.00 2.93 12.35 0.35 0.66 0.53* 2.92 0.00 2.92 12.40 0.35 0.66 0.53* 2.91 0.00 2.91 12.45 0.35 0.66 0.53* 2.90 0.00 2.90

10.50	0.24.0.66.0.72*	2 00 0 00 2 00
12.50	0.34 0.66 0.53*	2.89 0.00 2.89
12.55	0.34 0.66 0.53*	2.87 0.00 2.87
12.60	0.34 0.65 0.53*	2.86 0.00 2.86
12.65	0.34 0.65 0.52*	2.85 0.00 2.85
12.70	0.34 0.65 0.52*	2.84 0.00 2.84
12.75	0.34 0.65 0.52*	2.83 0.00 2.83
12.80	0.34 0.65 0.52*	2.81 0.00 2.81
12.85	0.34 0.65 0.52*	2.80 0.00 2.80
12.90	0.34 0.65 0.52*	2.79 0.00 2.79
12.95	0.34 0.65 0.52*	2.78 0.00 2.78
13.00	0.34 0.65 0.52*	2.77 0.00 2.77
13.05	0.34 0.65 0.52*	2.75 0.00 2.75
13.10	0.34 0.65 0.52*	2.74 0.00 2.74
13.15	0.34 0.65 0.52*	2.73 0.00 2.73
13.20	0.34 0.65 0.52*	2.72 0.00 2.72
13.25	0.34 0.65 0.52*	2.70 0.00 2.70
13.30	0.34 0.65 0.52*	2.69 0.00 2.69
	0.34 0.65 0.52*	2.68 0.00 2.68
13.35		
13.40	0.34 0.65 0.52*	2.67 0.00 2.67
13.45	0.34 0.65 0.52*	2.66 0.00 2.66
13.50	0.34 0.65 0.52*	2.64 0.00 2.64
13.55	0.34 0.65 0.52*	2.63 0.00 2.63
13.60	0.34 0.65 0.52*	2.62 0.00 2.62
13.65	0.34 0.65 0.52*	2.61 0.00 2.61
13.70	0.34 0.65 0.52*	2.59 0.00 2.59
13.75	0.34 0.65 0.52*	2.58 0.00 2.58
13.80	0.33 0.65 0.52*	2.57 0.00 2.57
13.85	0.33 0.65 0.51*	2.56 0.00 2.56
13.90	0.33 0.65 0.51*	2.54 0.00 2.54
13.95	0.33 0.65 0.51*	2.53 0.00 2.53
14.00	0.33 0.65 0.51*	2.52 0.00 2.52
14.05	0.33 0.65 0.51*	2.51 0.00 2.51
14.10	0.33 0.65 0.51*	2.50 0.00 2.50
14.15	0.33 0.65 0.51*	2.48 0.00 2.48
14.20	0.33 0.65 0.51*	2.47 0.00 2.47
14.25	0.33 0.65 0.51*	2.46 0.00 2.46
14.30	0.33 0.65 0.51*	2.45 0.00 2.45
14.35	0.33 0.65 0.51*	2.43 0.00 2.43
14.40	0.33 0.65 0.51*	2.42 0.00 2.42
14.45	0.33 0.65 0.51*	2.41 0.00 2.41
14.50	0.33 0.65 0.51*	2.40 0.00 2.40
14.55	0.33 0.65 0.51*	2.38 0.00 2.38
14.60	0.33 0.65 0.51*	2.37 0.00 2.37
14.65	0.33 0.65 0.51*	2.36 0.00 2.36
14.70	0.33 0.65 0.51*	2.35 0.00 2.35
14.75	0.33 0.65 0.51*	2.33 0.00 2.33
14.80	0.37 0.65 0.57*	2.32 0.00 2.32
14.85	0.37 0.65 0.57*	2.31 0.00 2.31
14.90	0.37 0.65 0.57*	2.30 0.00 2.31
14.95	0.36 0.65 0.56*	2.29 0.00 2.29
15.00	0.36 0.65 0.56*	2.28 0.00 2.28
15.05	0.37 0.65 0.57*	2.26 0.00 2.26
15.10	0.37 0.65 0.57*	2.25 0.00 2.25
15.15	0.37 0.65 0.57*	2.24 0.00 2.24

4	0.000 0.000 0.000	
15.20	0.37 0.65 0.57*	2.23 0.00 2.23
15.25	0.37 0.64 0.57*	2.22 0.00 2.22
15.30	0.37 0.64 0.57*	2.21 0.00 2.21
15.35	0.37 0.64 0.58*	2.20 0.00 2.20
15.40	0.37 0.64 0.58*	2.18 0.00 2.18
15.45	0.37 0.64 0.58*	2.17 0.00 2.17
15.50	0.37 0.64 0.58*	2.16 0.00 2.17
15.55	0.37 0.64 0.58*	2.15 0.00 2.15
15.60	0.38 0.64 0.58*	2.14 0.00 2.14
15.65	0.38 0.64 0.59*	2.13 0.00 2.13
15.70	0.38 0.64 0.59*	2.12 0.00 2.12
15.75	0.38 0.64 0.59*	2.11 0.00 2.11
15.80	0.38 0.64 0.59*	2.10 0.00 2.10
15.85	0.38 0.64 0.59*	2.08 0.00 2.08
15.90	0.38 0.64 0.59*	2.07 0.00 2.07
15.95	0.38 0.64 0.60*	2.06 0.00 2.06
16.00	0.38 0.64 0.60*	2.05 0.00 2.05
16.05	0.38 0.64 0.60*	2.04 0.00 2.04
16.10	0.39 0.64 0.60*	2.03 0.00 2.03
16.15	0.39 0.64 0.60*	2.02 0.00 2.02
16.20	0.39 0.64 0.60*	2.01 0.00 2.01
16.25	0.39 0.64 0.60*	2.00 0.00 2.00
16.30	0.39 0.64 0.61*	1.99 0.00 1.99
16.35	0.39 0.64 0.61*	1.98 0.00 1.98
16.40	0.39 0.64 0.61*	1.97 0.00 1.97
16.45	0.39 0.64 0.61*	1.96 0.00 1.96
16.50	0.39 0.64 0.61*	1.95 0.00 1.95
16.55	0.39 0.64 0.61*	1.93 0.00 1.93
16.60	0.39 0.64 0.62*	1.92 0.00 1.92
16.65	0.40 0.64 0.62*	1.91 0.00 1.91
16.70	0.40 0.64 0.62*	1.90 0.00 1.90
16.75	0.40 0.64 0.62*	1.89 0.00 1.89
16.80	0.40 0.64 0.62*	1.88 0.00 1.88
16.85	0.40 0.64 0.62*	1.87 0.00 1.87
	0.40 0.64 0.63*	1.86 0.00 1.86
16.90		
16.95	0.40 0.64 0.63*	1.85 0.00 1.85
17.00	0.40 0.64 0.63*	1.84 0.00 1.84
17.05	0.40 0.64 0.63*	1.83 0.00 1.83
17.10	0.40 0.64 0.63*	1.82 0.00 1.82
	0.40 0.64 0.63*	1.81 0.00 1.81
17.15		
17.20	0.41 0.64 0.63*	1.80 0.00 1.80
17.25	0.41 0.64 0.64*	1.79 0.00 1.79
17.30	0.41 0.64 0.64*	1.78 0.00 1.78
17.35	0.41 0.64 0.64*	1.77 0.00 1.77
17.40	0.41 0.64 0.64*	1.76 0.00 1.76
17.45	0.41 0.64 0.64*	1.75 0.00 1.75
17.50	0.41 0.64 0.64*	1.74 0.00 1.74
17.55	0.41 0.64 0.65*	1.73 0.00 1.73
17.60	0.41 0.64 0.65*	1.72 0.00 1.72
17.65	0.41 0.64 0.65*	1.71 0.00 1.71
17.70	0.41 0.64 0.65*	1.70 0.00 1.70
17.75	0.42 0.64 0.65*	1.69 0.00 1.69
17.80	0.42 0.64 0.65*	1.68 0.00 1.68
17.85	0.42 0.64 0.65*	1.67 0.00 1.67
17.00	0.12 0.07 0.03	1.07 0.00 1.07

17.90	0.42 0.64 0.66*	1.66 0.00 1.66
17.95	0.42 0.64 0.66*	1.65 0.00 1.65
18.00	0.42 0.64 0.66*	1.64 0.00 1.64
18.05	0.42 0.64 0.66*	1.63 0.00 1.63
18.10	0.42 0.64 0.66*	1.62 0.00 1.62
18.15	0.42 0.64 0.66*	1.61 0.00 1.61
18.20	0.42 0.64 0.67*	1.60 0.00 1.60
18.25	0.42 0.64 0.67*	1.59 0.00 1.59
18.30	0.42 0.64 0.67*	1.58 0.00 1.58
18.35	0.43 0.64 0.67*	1.57 0.00 1.57
18.40	0.43 0.64 0.67*	1.56 0.00 1.56
18.45	0.43 0.64 0.67*	1.56 0.00 1.56
18.50	0.43 0.64 0.67*	1.55 0.00 1.55
18.55	0.43 0.64 0.68*	1.54 0.00 1.54
18.60	0.43 0.64 0.68*	1.53 0.00 1.53
18.65	0.43 0.63 0.68*	1.52 0.00 1.53
18.70	0.43 0.63 0.68*	1.51 0.00 1.51
18.75	0.43 0.63 0.68*	1.50 0.00 1.50
18.80	0.43 0.63 0.68*	1.49 0.00 1.49
18.85	0.43 0.63 0.69*	1.48 0.00 1.48
18.90	0.44 0.63 0.69*	1.47 0.00 1.47
18.95	0.44 0.63 0.69*	1.46 0.00 1.46
19.00	0.44 0.63 0.69*	1.45 0.00 1.45
19.05	0.44 0.63 0.69*	1.44 0.00 1.44
19.10	0.44 0.63 0.69*	1.44 0.00 1.44
19.15	0.44 0.63 0.69*	1.43 0.00 1.43
19.20	0.44 0.63 0.70*	1.42 0.00 1.42
19.25	0.44 0.63 0.70*	1.41 0.00 1.41
19.30	0.44 0.63 0.70*	1.40 0.00 1.40
19.35	0.44 0.63 0.70*	1.39 0.00 1.39
19.40	0.44 0.63 0.70*	1.38 0.00 1.38
19.45	0.45 0.63 0.70*	1.37 0.00 1.37
19.50	0.45 0.63 0.70*	1.36 0.00 1.36
19.55	0.45 0.63 0.71*	1.35 0.00 1.35
19.60	0.45 0.63 0.71*	1.35 0.00 1.35
19.65	0.45 0.63 0.71*	1.34 0.00 1.34
19.70	0.45 0.63 0.71*	1.33 0.00 1.33
19.75	0.45 0.63 0.71*	1.32 0.00 1.32
19.80	0.45 0.63 0.71*	1.31 0.00 1.31
19.85	0.45 0.63 0.71	1.30 0.00 1.31
19.90	0.45 0.63 0.72*	1.29 0.00 1.29
19.95	0.45 0.63 0.72*	1.28 0.00 1.28
20.00	0.45 0.63 0.72*	1.28 0.00 1.28
20.05	0.45 0.63 0.72*	1.27 0.00 1.27
20.10	0.45 0.63 0.72*	1.26 0.00 1.26
20.15	0.45 0.63 0.72*	1.25 0.00 1.25
20.20	0.45 0.63 0.72*	1.24 0.00 1.24
20.25	0.45 0.63 0.72*	1.23 0.00 1.24
20.30	0.45 0.63 0.72*	1.22 0.00 1.22
20.35	0.45 0.63 0.72*	1.22 0.00 1.22
20.40	0.45 0.63 0.72*	1.21 0.00 1.21
20.45	0.45 0.63 0.72*	1.20 0.00 1.20
20.50	0.45 0.63 0.72*	1.19 0.00 1.19
20.55	0.45 0.63 0.71*	1.18 0.00 1.18
		_

20.60	0.45.0.62.0.71*	1 17 0 00 1 17
20.60	0.45 0.63 0.71*	1.17 0.00 1.17
20.65	0.45 0.63 0.71*	1.16 0.00 1.16
20.70	0.45 0.63 0.71*	1.15 0.00 1.15
20.75	0.45 0.63 0.71*	1.15 0.00 1.15
20.80	0.45 0.63 0.71*	1.14 0.00 1.14
20.85	0.45 0.63 0.71*	1.13 0.00 1.13
20.90	0.45 0.63 0.71*	1.12 0.00 1.12
20.95	0.45 0.63 0.71*	1.11 0.00 1.11
21.00	0.45 0.63 0.71*	1.10 0.00 1.10
21.05	0.45 0.63 0.71*	1.09 0.00 1.10
21.10	0.45 0.63 0.71*	1.08 0.00 1.08
21.15	0.45 0.63 0.71*	1.07 0.00 1.07
21.20	0.45 0.63 0.71*	1.07 0.00 1.07
21.25	0.45 0.63 0.71*	1.06 0.00 1.06
21.30	0.44 0.63 0.71*	1.05 0.00 1.05
21.35	0.44 0.63 0.71*	1.04 0.00 1.04
21.40	0.44 0.63 0.71*	1.03 0.00 1.03
21.45	0.44 0.63 0.71*	1.02 0.00 1.02
21.50	0.44 0.63 0.71*	1.01 0.00 1.01
21.55	0.44 0.63 0.71*	1.00 0.00 1.00
21.60	0.44 0.63 0.70*	1.00 0.00 1.00
21.65	0.44 0.63 0.70*	0.99 0.00 0.99
21.70	0.44 0.63 0.70*	$0.98\ 0.00\ 0.98$
21.75	0.44 0.63 0.70*	0.97 0.00 0.97
21.80	0.44 0.63 0.70*	0.96 0.00 0.96
21.85	0.44 0.63 0.70*	0.95 0.00 0.95
21.90	0.44 0.63 0.70*	0.94 0.00 0.94
21.95	0.44 0.63 0.70*	0.93 0.00 0.93
22.00	0.44 0.63 0.70*	0.92 0.00 0.92
22.05	0.44 0.63 0.70*	0.91 0.00 0.91
22.10	0.44 0.63 0.70*	0.91 0.00 0.91
22.15	0.44 0.63 0.70*	0.90 0.00 0.90
22.20	0.44 0.63 0.70*	$0.89\ 0.00\ 0.89$
22.25	0.44 0.63 0.70*	$0.88\ 0.00\ 0.88$
22.30	0.44 0.63 0.70*	$0.87\ 0.00\ 0.87$
22.35	0.44 0.63 0.70*	$0.86\ 0.00\ 0.86$
22.40	0.44 0.63 0.70*	0.85 0.00 0.85
22.45	0.44 0.63 0.70*	0.84 0.00 0.84
22.50	0.44 0.63 0.70*	0.83 0.00 0.83
22.55	0.44 0.63 0.70*	0.82 0.00 0.82
22.60	0.44 0.63 0.70*	$0.82\ 0.00\ 0.82$
22.65	0.43 0.63 0.70*	0.81 0.00 0.81
22.70	0.43 0.63 0.70*	0.80 0.00 0.80
22.75	0.43 0.63 0.69*	0.79 0.00 0.79
22.80	0.43 0.63 0.69*	$0.78\ 0.00\ 0.78$
22.85	0.43 0.62 0.69*	$0.77\ 0.00\ 0.77$
22.90	0.43 0.62 0.69*	$0.76\ 0.00\ 0.76$
22.95	0.43 0.62 0.69*	0.75 0.00 0.75
23.00	0.43 0.62 0.69*	0.74 0.00 0.74
23.05	0.43 0.62 0.69*	0.73 0.00 0.73
23.10	0.43 0.62 0.69*	0.72 0.00 0.72
23.15	0.43 0.62 0.69*	0.71 0.00 0.71
23.20	0.43 0.62 0.69*	0.71 0.00 0.71
23.25	0.43 0.62 0.69*	0.70 0.00 0.70
23.23	0.15 0.02 0.07	0.70 0.00 0.70

22.20	0.42.0.62.0.60*	0.60.0.00.0.60
23.30	0.43 0.62 0.69*	0.69 0.00 0.69
23.35	0.43 0.62 0.69*	$0.68\ 0.00\ 0.68$
23.40	0.43 0.62 0.69*	$0.67\ 0.00\ 0.67$
23.45	0.43 0.62 0.69*	$0.66\ 0.00\ 0.66$
23.50	0.43 0.62 0.69*	0.65 0.00 0.65
23.55	0.43 0.62 0.69*	0.64 0.00 0.64
23.60	0.43 0.62 0.69*	0.63 0.00 0.63
23.65	0.43 0.62 0.69*	0.62 0.00 0.62
23.70	0.43 0.62 0.69*	0.61 0.00 0.61
23.75	0.43 0.62 0.69*	$0.60\ 0.00\ 0.60$
23.80	0.43 0.62 0.69*	0.59 0.00 0.59
23.85	0.43 0.62 0.69*	0.58 0.00 0.58
23.90	0.43 0.62 0.69*	0.58 0.00 0.58
23.95	0.43 0.62 0.68*	0.57 0.00 0.57
24.00	0.43 0.62 0.68*	0.56 0.00 0.56
24.05	0.43 0.62 0.68*	0.55 0.00 0.55
		0.54 0.00 0.54
24.10	0.43 0.62 0.68*	
24.15	0.43 0.62 0.68*	0.53 0.00 0.53
24.20	0.42 0.62 0.68*	0.52 0.00 0.52
24.25	0.42 0.62 0.68*	0.51 0.00 0.51
24.30	0.42 0.62 0.68*	0.50 0.00 0.50
24.35	0.42 0.62 0.68*	0.49 0.00 0.49
24.40	0.42 0.62 0.68*	0.48 0.00 0.48
24.45	0.42 0.62 0.68*	0.47 0.00 0.47
24.50	0.42 0.62 0.68*	0.46 0.00 0.47
24.55	0.42 0.62 0.68*	0.45 0.00 0.45
24.60	0.42 0.62 0.68*	0.44 0.00 0.44
24.65	0.42 0.62 0.68*	0.43 0.00 0.43
24.70	0.42 0.62 0.68*	0.42 0.00 0.42
24.75	0.42 0.62 0.68*	0.42 0.00 0.42
24.80	0.42 0.62 0.68*	0.41 0.00 0.41
24.85	0.42 0.62 0.68*	0.40 0.00 0.40
24.90	0.42 0.62 0.68*	0.39 0.00 0.39
24.95	0.42 0.62 0.68*	0.38 0.00 0.38
25.00	0.42 0.62 0.68*	0.37 0.00 0.37
25.05	0.42 0.62 0.68*	0.36 0.00 0.36
25.10	0.43 0.62 0.69*	0.35 0.00 0.35
25.15	0.43 0.62 0.69*	0.34 0.00 0.34
25.20	0.43 0.62 0.70*	0.33 0.00 0.33
25.25	0.44 0.62 0.71*	0.32 0.00 0.32
25.30	0.44 0.62 0.71*	0.31 0.00 0.31
25.35	0.44 0.62 0.72*	0.30 0.00 0.30
25.40	0.45 0.62 0.72*	0.29 0.00 0.29
25.45	0.45 0.62 0.72	0.29 0.00 0.29
25.50	0.45 0.62 0.73*	0.28 0.00 0.28
25.55	0.46 0.62 0.74*	0.27 0.00 0.27
25.60	0.46 0.62 0.75*	0.26 0.00 0.26
25.65	0.47 0.62 0.75*	0.25 0.00 0.25
25.70	0.47 0.62 0.76*	0.24 0.00 0.24
25.75	0.47 0.62 0.76*	0.23 0.00 0.23
25.80	0.48 0.62 0.77*	0.23 0.00 0.23
25.85	0.48 0.62 0.78*	0.22 0.00 0.22
25.90	0.48 0.62 0.78*	0.21 0.00 0.21
25.95	0.49 0.62 0.79*	0.20 0.00 0.21
43.73	U.47 U.U∠ U./Y	0.20 0.00 0.20

26.00	0.49 0.62 0.79*	0.19 0.00 0.19
26.05	0.49 0.62 0.80*	0.19 0.00 0.19
26.10	0.50 0.62 0.81*	0.18 0.00 0.18
26.15	0.50 0.62 0.81*	0.17 0.00 0.17
26.20	0.51 0.62 0.82*	0.16 0.00 0.16
26.25	0.51 0.62 0.82*	0.16 0.00 0.16
26.30	0.51 0.62 0.82*	0.15 0.00 0.15
26.35	0.52 0.62 0.84*	0.14 0.00 0.14
26.40	0.52 0.62 0.84*	0.14 0.00 0.14
26.45	0.52 0.62 0.85*	0.13 0.00 0.14
26.50	0.53 0.62 0.86*	0.12 0.00 0.13
26.55	0.53 0.62 0.86*	0.11 0.00 0.12
26.60	0.54 0.62 0.87*	0.11 0.00 0.11
26.65	0.54 0.62 0.88*	0.10 0.00 0.10
26.70	0.54 0.62 0.88*	0.09 0.00 0.09
26.75	0.55 0.62 0.89*	0.09 0.00 0.09
26.80	0.55 0.62 0.90*	0.08 0.00 0.08
26.85	0.56 0.62 0.90*	0.08 0.00 0.08
26.90	0.56 0.62 0.91*	0.07 0.00 0.07
26.95	0.57 0.62 0.92*	0.06 0.00 0.06
27.00	0.57 0.62 0.92*	0.06 0.00 0.06
27.05	0.57 0.62 0.93*	0.05 0.00 0.05
27.10	0.58 0.62 0.94*	0.04 0.00 0.04
27.15	0.58 0.62 0.95*	0.04 0.00 0.04
27.20	0.59 0.62 0.95*	0.03 0.00 0.03
27.25	0.59 0.62 0.96*	0.03 0.00 0.03
27.30	0.60 0.62 0.97*	0.03 0.00 0.03
27.35	0.60 0.62 0.98*	0.02 0.00 0.02
27.40	0.61 0.62 0.98*	0.02 0.00 0.02
27.45	0.61 0.62 0.99*	0.02 0.00 0.02
27.50	0.61 0.62 1.00*	0.01 0.00 0.01
27.55	0.62 0.62 1.01 0.01	$0.00\ 0.01$
27.60	0.62 0.62 1.01 0.01	$0.00\ 0.01$
27.65	0.63 0.62 1.02 0.01	0.00 0.01
27.70	0.63 0.62 1.03 0.01	0.00 0.01
27.75	0.64 0.62 1.04 0.01	
27.80	0.64 0.62 1.05 0.00	
27.85	0.65 0.62 1.06 0.00	
27.90	0.71 0.62 1.16 0.00	
27.95	0.72 0.61 1.17 0.00	
28.00	0.73 0.61 1.18 0.00	
28.05	0.74 0.61 1.20 0.00	
28.10	0.74 0.61 1.21 0.00	
28.15	0.75 0.61 1.22 0.00	
28.20	0.76 0.61 1.24 0.00	
28.25	0.77 0.61 1.25 0.00	
28.30	0.78 0.61 1.27 0.00	
28.35	0.79 0.61 1.27 0.00	
28.40	0.80 0.61 1.30 0.00	
28.45	0.81 0.61 1.31 0.00	
28.50	0.82 0.61 1.33 0.00	
28.55	0.83 0.61 1.35 0.00	
28.60	0.84 0.61 1.38 0.00	
28.65	0.86 0.61 1.40 0.00	0.00 0.00

28.70	$0.88\ 0.61$	1.43 0.00 0.00 0.00
28.75	0.90.0.61	1.46 0.00 0.00 0.00
28.80		1.51 0.00 0.00 0.00
28.85	0.96 0.61	1.57 0.00 0.00 0.00
28.90	1.02 0.61	1.66 0.00 0.00 0.00
28.95		1.80 0.00 0.00 0.00
29.00	1.11 0.61	1.80 0.00 0.00 0.00
29.05	1.11 0.61	1.80 0.00 0.00 0.00
29.10		1.80 0.00 0.00 0.00
29.15	1.11 0.61	1.80 0.00 0.00 0.00
29.20	1.11 0.61	1.80 0.00 0.00 0.00
29.25	1.11 0.61	1.80 0.00 0.00 0.00
29.30		1.80 0.00 0.00 0.00
29.35	1.11 0.61	1.80 0.00 0.00 0.00
29.40	1.11 0.61	1.80 0.00 0.00 0.00
29.45		1.80 0.00 0.00 0.00
29.50		1.81 0.00 0.00 0.00
29.55	1.11 0.61	1.81 0.00 0.00 0.00
29.60	1.11 0.61	1.81 0.00 0.00 0.00
29.65		1.81 0.00 0.00 0.00
29.70	1.11 0.61	1.81 0.00 0.00 0.00
29.75	1.11 0.61	1.81 0.00 0.00 0.00
29.80		1.81 0.00 0.00 0.00
29.85		1.81 0.00 0.00 0.00
29.90	1.11 0.61	1.81 0.00 0.00 0.00
29.95	1.11 0.61	1.81 0.00 0.00 0.00
30.00		1.81 0.00 0.00 0.00
30.05	1.11 0.61	1.81 0.00 0.00 0.00
30.10	1.11 0.61	1.81 0.00 0.00 0.00
30.15		1.81 0.00 0.00 0.00
30.20		1.81 0.00 0.00 0.00
30.25	1.11 0.61	1.81 0.00 0.00 0.00
30.30	1.11 0.61	1.81 0.00 0.00 0.00
30.35		1.81 0.00 0.00 0.00
30.40		1.81 0.00 0.00 0.00
30.45	1.11 0.61	1.81 0.00 0.00 0.00
30.50	1 11 0 61	1.82 0.00 0.00 0.00
		1.82 0.00 0.00 0.00
30.55		
30.60	1.11 0.61	1.82 0.00 0.00 0.00
30.65	1.11 0.61	1.82 0.00 0.00 0.00
30.70	1.11 0.61	1.82 0.00 0.00 0.00
30.75		1.82 0.00 0.00 0.00
30.80	1.11 0.61	1.82 0.00 0.00 0.00
30.85	1.11 0.61	1.82 0.00 0.00 0.00
30.90		1.82 0.00 0.00 0.00
30.95		1.82 0.00 0.00 0.00
31.00	1.11 0.61	1.82 0.00 0.00 0.00
31.05	1.11 0.61	1.82 0.00 0.00 0.00
31.10		1.82 0.00 0.00 0.00
31.15		1.83 0.00 0.00 0.00
31.20	1.11 0.61	1.83 0.00 0.00 0.00
31.25		1.83 0.00 0.00 0.00
		1.83 0.00 0.00 0.00
31.30		
31.35	1.11 0.60	1.83 0.00 0.00 0.00

31.45	31.40	1.11 0.60 1.83 0.00 0.00 0.00
31.55 1.11 0.60 1.83 0.00 0.00 0.00 31.60 1.11 0.60 1.83 0.00 0.00 0.00 31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.01 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.11 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.23 1.11 0.60 1.84 0.00 0.00 0.00 32.24 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.84 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.15 1.11 0.60 1.85 0.00 0.00 0.00 33.25 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.31 1.10 0.60 1.85 0.00 0.00 0.00 33.35 1.11 0.60 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.38 1.11 0.59 1.86 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	31.45	1.11 0.60 1.83 0.00 0.00 0.00
31.60	31.50	1.11 0.60 1.83 0.00 0.00 0.00
31.65 1.11 0.60 1.83 0.00 0.00 0.00 31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.10 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.76 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00	31.55	1.11 0.60 1.83 0.00 0.00 0.00
31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.01 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.36 1.11 0.60 1.85 0.00 0.00 0.00 32.35 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 <td>31.60</td> <td>1.11 0.60 1.83 0.00 0.00 0.00</td>	31.60	1.11 0.60 1.83 0.00 0.00 0.00
31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.060 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.33 1.11 0.60 1.84 0.00 0.00 0.00 32.34 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00	31.65	1.11 0.60 1.83 0.00 0.00 0.00
31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.33 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.10 0.60 1.85 0.00 0.00 0.00	31.70	1.11 0.60 1.83 0.00 0.00 0.00
31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.060 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.74 1.10 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.86 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00	31.75	1.11 0.60 1.84 0.00 0.00 0.00
31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.41 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 <td>31.80</td> <td>1.11 0.60 1.84 0.00 0.00 0.00</td>	31.80	1.11 0.60 1.84 0.00 0.00 0.00
31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.59 1.86 0.00 0.00 0.00 <td>31.85</td> <td>1.11 0.60 1.84 0.00 0.00 0.00</td>	31.85	1.11 0.60 1.84 0.00 0.00 0.00
32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00	31.90	1.11 0.60 1.84 0.00 0.00 0.00
32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.10 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00	31.95	1.11 0.60 1.84 0.00 0.00 0.00
32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.11 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.21 1.10 0.60 1.85 0.00 0.00 0.00 33.22 1.11 0.50 1.86 0.00 0.00 0.00 33.30 1.11 0.60 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00	32.00	1.11 0.60 1.84 0.00 0.00 0.00
32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.11 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.50 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00	32.05	1.11 0.60 1.84 0.00 0.00 0.00
32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00	32.10	1.11 0.60 1.84 0.00 0.00 0.00
32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00	32.15	1.11 0.60 1.84 0.00 0.00 0.00
32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.82 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.060 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.050 1.86 0.00 0.00 0.00 33.15 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.10.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.87 0.00 0.00 0.00	32.20	1.11 0.60 1.84 0.00 0.00 0.00
32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.10 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.87 0.00 0.00 0.00	32.25	1.11 0.60 1.84 0.00 0.00 0.00
32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.21 1.10 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.10 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00	32.30	1.11 0.60 1.84 0.00 0.00 0.00
32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.22 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.10 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.71 1.10 0.59 1.87 0.00 0.00 0.00	32.35	1.11 0.60 1.84 0.00 0.00 0.00
32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.10 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.10 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00	32.40	1.11 0.60 1.85 0.00 0.00 0.00
32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.59 1.86 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.85 1.11 0.59 1.87 0.00 0.00 0.00	32.45	1.11 0.60 1.85 0.00 0.00 0.00
32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.87 0.00 0.00 0.00 33.37 1.11 0.59 1.87 0.00 0.00 0.00 33.65 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.90 1.11 0.59 1.87 0.00 0.00 0.00	32.50	1.11 0.60 1.85 0.00 0.00 0.00
32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.55 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	32.55	1.11 0.60 1.85 0.00 0.00 0.00
32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00	32.60	1.11 0.60 1.85 0.00 0.00 0.00
32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.55 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00	32.65	1.11 0.60 1.85 0.00 0.00 0.00
32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.65 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00	32.70	1.11 0.60 1.85 0.00 0.00 0.00
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35.55	1.11 0.58 1.90 0.00 0.00 0.00
35.60	1.11 0.58 1.90 0.00 0.00 0.00
35.65	1.11 0.58 1.90 0.00 0.00 0.00
35.70	1.11 0.58 1.90 0.00 0.00 0.00
35.75	1.11 0.58 1.90 0.00 0.00 0.00
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36.60	1.11 0.58 1.92 0.00 0.00 0.00
36.65	1.11 0.58 1.92 0.00 0.00 0.00
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37.05	1.11 0.57 1.92 0.00 0.00 0.00
37.10	1.11 0.57 1.93 0.00 0.00 0.00
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37.35	1.11 0.57 1.94 0.00 0.00 0.00
37.40	1.11 0.57 1.94 0.00 0.00 0.00
37.45	1.11 0.57 1.94 0.00 0.00 0.00
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37.55	1.11 0.57 1.94 0.00 0.00 0.00
37.60	1.11 0.57 1.94 0.00 0.00 0.00
37.65	1.11 0.57 1.94 0.00 0.00 0.00
37.70	1.11 0.57 1.95 0.00 0.00 0.00
37.75	1.11 0.57 1.95 0.00 0.00 0.00
37.80	1.11 0.57 1.95 0.00 0.00 0.00
37.85	1.11 0.57 1.95 0.00 0.00 0.00
37.90	1.11 0.57 1.95 0.00 0.00 0.00
37.95	1.11 0.57 1.95 0.00 0.00 0.00
38.00	1.11 0.57 1.95 0.00 0.00 0.00
38.05	1.11 0.57 1.95 0.00 0.00 0.00
38.10	1.11 0.57 1.95 0.00 0.00 0.00
38.15	1.11 0.57 1.95 0.00 0.00 0.00
38.20	1.11 0.57 1.95 0.00 0.00 0.00
38.25	1.11 0.57 1.95 0.00 0.00 0.00
38.30	1.11 0.57 1.95 0.00 0.00 0.00
38.35	1.11 0.57 1.95 0.00 0.00 0.00
38.40	1.09 0.57 1.93 0.00 0.00 0.00
38.45	1.08 0.57 1.91 0.00 0.00 0.00
38.50	1.07 0.57 1.88 0.00 0.00 0.00
38.55	1.06 0.57 1.87 0.00 0.00 0.00
38.60	1.05 0.57 1.85 0.00 0.00 0.00
	1.04 0.57 1.83 0.00 0.00 0.00
38.65	
38.70	1.03 0.57 1.82 0.00 0.00 0.00
38.75	1.02 0.57 1.80 0.00 0.00 0.00
38.80	1.01 0.57 1.79 0.00 0.00 0.00
38.85	1.00 0.57 1.78 0.00 0.00 0.00
38.90	1.00 0.56 1.77 0.00 0.00 0.00
38.95	0.99 0.56 1.76 0.00 0.00 0.00
39.00	0.99 0.56 1.75 0.00 0.00 0.00
39.05	0.98 0.56 1.74 0.00 0.00 0.00
39.10	0.97 0.56 1.73 0.00 0.00 0.00
39.15	0.97 0.56 1.72 0.00 0.00 0.00
39.20	0.96 0.56 1.71 0.00 0.00 0.00
39.25	0.96 0.56 1.70 0.00 0.00 0.00
39.30	0.95 0.56 1.70 0.00 0.00 0.00
39.35	0.95 0.56 1.69 0.00 0.00 0.00
39.40	0.95 0.56 1.68 0.00 0.00 0.00
39.45	0.94 0.56 1.68 0.00 0.00 0.00
JJ. T J	0.77 0.30 1.00 0.00 0.00 0.00

39.50 0.94 0.56 1.67 0.00 0.00 0.00 39.55 0.93 0.56 1.66 0.00 0.00 0.00 39.60 0.93 0.56 1.66 0.00 0.00 0.00 39.65 0.93 0.56 1.65 0.00 0.00 0.00 39.70 0.92 0.56 1.65 0.00 0.00 0.00 39.75 0.92 0.56 1.64 0.00 0.00 0.00 39.80 0.92 0.56 1.64 0.00 0.00 0.00 39.85 0.91 0.56 1.63 0.00 0.00 0.00 39.90 0.91 0.56 1.63 0.00 0.00 0.00 39.95 0.91 0.56 1.62 0.00 0.00 0.00 40.00 0.90 0.56 1.62 0.00 0.00 0.00 40.05 0.90 0.56 1.61 0.00 0.00 0.00 40.10 0.90 0.56 1.61 0.00 0.00 0.00 40.15 0.90 0.56 1.61 0.00 0.00 0.00 40.20 0.89 0.56 1.60 0.00 0.00 0.00 40.25 0.89 0.56 1.60 0.00 0.00 0.00 40.30 0.89 0.56 1.60 0.00 0.00 0.00 40.35 0.89 0.56 1.59 0.00 0.00 0.00 40.40 0.88 0.56 1.59 0.00 0.00 0.00 40.45 0.88 0.56 1.59 0.00 0.00 0.00 40.50 0.88 0.56 1.58 0.00 0.00 0.00 40.55 0.88 0.56 1.58 0.00 0.00 0.00 40.60 0.88 0.56 1.58 0.00 0.00 0.00 40.65 0.87 0.56 1.57 0.00 0.00 0.00 40.70 0.87 0.56 1.57 0.00 0.00 0.00 40.75 0.87 0.55 1.57 0.00 0.00 0.00 40.80 0.87 0.55 1.56 0.00 0.00 0.00 40.85 0.87 0.55 1.56 0.00 0.00 0.00 40.90 0.86 0.55 1.56 0.00 0.00 0.00 40.95 0.86 0.55 1.56 0.00 0.00 0.00 41.00 0.86 0.55 1.55 0.00 0.00 0.00 41.05 0.86 0.55 1.55 0.00 0.00 0.00 41.10 0.86 0.55 1.55 0.00 0.00 0.00 41.15 0.85 0.55 1.55 0.00 0.00 0.00 41.20 0.85 0.55 1.54 0.00 0.00 0.00 41.25 0.85 0.55 1.54 0.00 0.00 0.00 41.30 0.85 0.55 1.54 0.00 0.00 0.00 41.35 0.85 0.55 1.54 0.00 0.00 0.00 41.40 0.85 0.55 1.53 0.00 0.00 0.00 41.45 0.84 0.55 1.53 0.00 0.00 0.00 41.50 0.84 0.55 1.53 0.00 0.00 0.00 41.55 0.84 0.55 1.53 0.00 0.00 0.00 41.60 0.84 0.55 1.53 0.00 0.00 0.00 41.65 0.84 0.55 1.52 0.00 0.00 0.00 41.70 0.84 0.55 1.52 0.00 0.00 0.00 41.75 0.84 0.55 1.52 0.00 0.00 0.00 41.80 0.83 0.55 1.52 0.00 0.00 0.00 41.85 0.83 0.55 1.52 0.00 0.00 0.00 41.90 0.83 0.55 1.51 0.00 0.00 0.00 41.95 0.83 0.55 1.51 0.00 0.00 0.00 42.00 0.83 0.55 1.51 0.00 0.00 0.00 42.05 0.83 0.55 1.51 0.00 0.00 0.00 42.10 0.82 0.55 1.51 0.00 0.00 0.00 42.15 0.82 0.55 1.50 0.00 0.00 0.00

42.20 0.82 0.55 1.50 0.00 0.00 0.00 42.25 0.82 0.55 1.50 0.00 0.00 0.00 42.30 0.82 0.55 1.50 0.00 0.00 0.00 42.35 0.82 0.55 1.50 0.00 0.00 0.00 42.40 0.82 0.55 1.50 0.00 0.00 0.00 42.45 0.82 0.55 1.49 0.00 0.00 0.00 42.50 0.81 0.55 1.49 0.00 0.00 0.00 42.55 0.81 0.55 1.49 0.00 0.00 0.00 42.60 0.81 0.55 1.49 0.00 0.00 0.00 42.65 0.81 0.54 1.49 0.00 0.00 0.00 42.70 0.81 0.54 1.49 0.00 0.00 0.00 42.75 0.81 0.54 1.48 0.00 0.00 0.00 42.80 0.81 0.54 1.48 0.00 0.00 0.00 42.85 0.81 0.54 1.48 0.00 0.00 0.00 42.90 0.80 0.54 1.48 0.00 0.00 0.00 42.95 0.80 0.54 1.48 0.00 0.00 0.00 43.00 0.80 0.54 1.48 0.00 0.00 0.00 43.05 0.80 0.54 1.48 0.00 0.00 0.00 43.10 0.80 0.54 1.47 0.00 0.00 0.00 43.15 0.80 0.54 1.47 0.00 0.00 0.00 43.20 0.80 0.54 1.47 0.00 0.00 0.00 43.25 0.80 0.54 1.47 0.00 0.00 0.00 43.30 0.80 0.54 1.47 0.00 0.00 0.00 43.35 0.79 0.54 1.47 0.00 0.00 0.00 43.40 0.79 0.54 1.47 0.00 0.00 0.00 43.45 0.79 0.54 1.46 0.00 0.00 0.00 43.50 0.79 0.54 1.46 0.00 0.00 0.00 43.55 0.79 0.54 1.46 0.00 0.00 0.00 43.60 0.79 0.54 1.46 0.00 0.00 0.00 43.65 0.79 0.54 1.46 0.00 0.00 0.00 43.70 0.79 0.54 1.46 0.00 0.00 0.00 43.75 0.79 0.54 1.46 0.00 0.00 0.00 43.80 0.78 0.54 1.46 0.00 0.00 0.00 43.85 0.78 0.54 1.45 0.00 0.00 0.00 43.90 0.78 0.54 1.45 0.00 0.00 0.00 43.95 0.78 0.54 1.45 0.00 0.00 0.00 44.00 0.78 0.54 1.45 0.00 0.00 0.00 44.05 0.78 0.54 1.45 0.00 0.00 0.00 44.10 0.78 0.54 1.45 0.00 0.00 0.00 44.15 0.78 0.54 1.45 0.00 0.00 0.00 44.20 0.78 0.54 1.45 0.00 0.00 0.00 44.25 0.78 0.54 1.45 0.00 0.00 0.00 44.30 0.77 0.54 1.44 0.00 0.00 0.00 44.35 0.77 0.54 1.44 0.00 0.00 0.00 44.40 0.77 0.54 1.44 0.00 0.00 0.00 44.45 0.77 0.54 1.44 0.00 0.00 0.00 44.50 0.77 0.54 1.44 0.00 0.00 0.00 44.55 0.77 0.53 1.44 0.00 0.00 0.00 44.60 0.77 0.53 1.44 0.00 0.00 0.00 44.65 0.77 0.53 1.44 0.00 0.00 0.00 44.70 0.77 0.53 1.44 0.00 0.00 0.00 44.75 0.77 0.53 1.43 0.00 0.00 0.00 44.80 0.76 0.53 1.43 0.00 0.00 0.00 44.85 0.76 0.53 1.43 0.00 0.00 0.00 44.90 0.76 0.53 1.43 0.00 0.00 0.00 44.95 0.76 0.53 1.43 0.00 0.00 0.00 45.00 0.76 0.53 1.43 0.00 0.00 0.00 45.05 0.76 0.53 1.43 0.00 0.00 0.00 45.10 0.76 0.53 1.43 0.00 0.00 0.00 45.15 0.76 0.53 1.43 0.00 0.00 0.00 45.20 0.76 0.53 1.43 0.00 0.00 0.00 45.25 0.76 0.53 1.42 0.00 0.00 0.00 45.30 0.76 0.53 1.42 0.00 0.00 0.00 45.35 0.75 0.53 1.42 0.00 0.00 0.00 45.40 0.75 0.53 1.42 0.00 0.00 0.00 45.45 0.75 0.53 1.42 0.00 0.00 0.00 45.50 0.75 0.53 1.42 0.00 0.00 0.00 45.55 0.75 0.53 1.42 0.00 0.00 0.00 45.60 0.75 0.53 1.42 0.00 0.00 0.00 45.65 0.75 0.53 1.42 0.00 0.00 0.00 45.70 0.75 0.53 1.42 0.00 0.00 0.00 45.75 0.75 0.53 1.42 0.00 0.00 0.00 45.80 0.75 0.53 1.41 0.00 0.00 0.00 45.85 0.75 0.53 1.41 0.00 0.00 0.00 45.90 0.75 0.53 1.41 0.00 0.00 0.00 45.95 0.74 0.53 1.41 0.00 0.00 0.00 46.00 0.74 0.53 1.41 0.00 0.00 0.00 46.05 0.74 0.53 1.41 0.00 0.00 0.00 46.10 0.74 0.53 1.41 0.00 0.00 0.00 46.15 0.74 0.53 1.41 0.00 0.00 0.00 46.20 0.74 0.53 1.41 0.00 0.00 0.00 46.25 0.74 0.53 1.41 0.00 0.00 0.00 46.30 0.74 0.53 1.41 0.00 0.00 0.00 46.35 0.74 0.53 1.40 0.00 0.00 0.00 $0.74\ 0.52\ 1.40\ 0.00\ 0.00\ 0.00$ 46.40 46.45 0.74 0.52 1.40 0.00 0.00 0.00 46.50 0.74 0.52 1.40 0.00 0.00 0.00 46.55 0.73 0.52 1.40 0.00 0.00 0.00 46.60 0.73 0.52 1.40 0.00 0.00 0.00 46.65 0.73 0.52 1.40 0.00 0.00 0.00 46.70 0.73 0.52 1.40 0.00 0.00 0.00 46.75 0.73 0.52 1.40 0.00 0.00 0.00 46.80 0.73 0.52 1.40 0.00 0.00 0.00 0.73 0.52 1.40 0.00 0.00 0.00 46.85 46.90 0.73 0.52 1.40 0.00 0.00 0.00 46.95 0.73 0.52 1.40 0.00 0.00 0.00 47.00 0.73 0.52 1.39 0.00 0.00 0.00 47.05 0.73 0.52 1.39 0.00 0.00 0.00 47.10 0.73 0.52 1.39 0.00 0.00 0.00 47.15 0.73 0.52 1.39 0.00 0.00 0.00 47.20 0.72 0.52 1.39 0.00 0.00 0.00 47.25 0.72 0.52 1.39 0.00 0.00 0.00 $0.72\ 0.52\ 1.39\ 0.00\ 0.00\ 0.00$ 47.30 47.35 0.72 0.52 1.39 0.00 0.00 0.00 $0.72\ 0.52\ 1.39\ 0.00\ 0.00\ 0.00$ 47.40 0.72 0.52 1.39 0.00 0.00 0.00 47.45 47.50 0.72 0.52 1.39 0.00 0.00 0.00 47.55 0.72 0.52 1.39 0.00 0.00 0.00

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47.60
          0.72 0.52 1.39 0.00 0.00 0.00
          0.72\ 0.52\ 1.39\ 0.00\ 0.00\ 0.00
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          0.72 0.52 1.38 0.00 0.00 0.00
47.75
          0.72\ 0.52\ 1.38\ 0.00\ 0.00\ 0.00
47.80
          0.72 0.52 1.38 0.00 0.00 0.00
47.85
          0.72 0.52 1.38 0.00 0.00 0.00
47.90
          0.71 0.52 1.38 0.00 0.00 0.00
47.95
          0.71 0.52 1.38 0.00 0.00 0.00
48.00
          0.71 0.52 1.38 0.00 0.00 0.00
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          0.71 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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48.85
          0.70 0.51 1.37 0.00 0.00 0.00
48.90
          0.70 0.51 1.37 0.00 0.00 0.00
48.95
          0.70 0.51 1.37 0.00 0.00 0.00
49.00
          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
49.20
          0.70 0.51 1.37 0.00 0.00 0.00
49.25
          0.70 0.51 1.37 0.00 0.00 0.00
49.30
          0.70 0.51 1.37 0.00 0.00 0.00
49.35
          0.69 0.51 1.36 0.00 0.00 0.00
49.40
          0.69 0.51 1.36 0.00 0.00 0.00
49.45
          0.69 0.51 1.36 0.00 0.00 0.00
49.50
          0.69 0.51 1.36 0.00 0.00 0.00
49.55
          0.69 0.51 1.36 0.00 0.00 0.00
49.60
          0.69 0.51 1.36 0.00 0.00 0.00
49.65
          0.69 0.51 1.36 0.00 0.00 0.00
49.70
          0.69 0.51 1.36 0.00 0.00 0.00
49.75
          0.69 0.51 1.36 0.00 0.00 0.00
49.80
          0.69 0.51 1.36 0.00 0.00 0.00
49.85
          0.69 0.51 1.36 0.00 0.00 0.00
49.90
          0.69 0.51 1.36 0.00 0.00 0.00
49.95
          0.69 0.51 1.36 0.00 0.00 0.00
50.00
          0.69 0.51 1.36 0.00 0.00 0.00
```

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

^{*} F.S.<1, Liquefaction Potential Zone (F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

1 atm (atmosphere) = 1 tsf (ton/ft2)

CRRm Cyclic resistance ratio from soils

CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)

F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf

S_sat Settlement from saturated sands S_dry Settlement from Unsaturated Sands

S_all Total Settlement from Saturated and Unsaturated Sands

No-Liquefy Soils

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Input File Name: C:\Users\Engineering\Desktop\07-240145-0.liq

Title: Proposed Classroom Buildings at Bailey Elementary

Subtitle: 07-240145-0

Surface Elev.=141

Hole No.=B-5

Depth of Hole= 50.00 ft

Water Table during Earthquake= 12.50 ft Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration= 0.44 g Earthquake Magnitude= 5.50

Input Data:

Surface Elev.=141

Hole No.=B-5

Depth of Hole=50.00 ft

Water Table during Earthquake= 12.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration=0.44 g

Earthquake Magnitude=5.50

No-Liquefiable Soils: Based on Analysis

- 1. SPT or BPT Calculation.
- 2. Settlement Analysis Method: Tokimatsu, M-correction
- 3. Fines Correction for Liquefaction: Stark/Olson et al.*
- 4. Fine Correction for Settlement: During Liquefaction*
- 5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.5

7. Borehole Diameter,

Cb=1

8. Sampling Method,

 $C_{S} = 1.2$

9. User request factor of safety (apply to CSR), User= 1.2 Plot one CSR curve (fs1=User)

10. Use Curve Smoothing: Yes*

* Recommended Options

In-Situ Test Data:

Depth SPT gamma Fines

ft pcf %

0.00 17.00 117.70 NoLiq 3.50 17.00 121.10 NoLiq

7.50 17.0	00 115	5.00	NoL	iq	
11.00	8.00 134	4.10	4.00	_	
15.00	8.00 134	4.10	4.00		
20.00	11.00	133.6	0	4.00	
25.00	11.00	133.6	50	4.00	
30.00	21.00	130.0	00	4.00	
35.00	21.00	130.0	00	4.00	
40.00	21.00	130.0	00	4.00	
45.00	21.00	130.0	00	4.00	

Output Results:

Settlement of Saturated Sands=0.59 in.

Settlement of Unsaturated Sands=0.03 in.

Total Settlement of Saturated and Unsaturated Sands=0.61 in.

Differential Settlement=0.307 to 0.405 in.

Depth ft	CRRm	CSR in.	fs in.	F.S. in.	S_sat.	S_dry	S_all
	0.34 5.00						
	0.34 5.00						
) 0.34 5.00) 0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
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	0.34 5.00						
	0.34 5.00 0.34 5.00						
) 0.34 5.00) 0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
0.90 2.00	0.34 5.00	0.59	0.03	0.61			
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
) 0.34 5.00) 0.34 5.00						
) 0.34 5.00) 0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
1.65 2.00	0.34 5.00	0.59	0.03	0.61			

1.70 2.00 0.34 5.00 0.59 0.03 0.61 1.75 2.00 0.34 5.00 0.59 0.03 0.61 1.80 2.00 0.34 5.00 0.59 0.03 0.61 1.85 2.00 0.34 5.00 0.59 0.03 0.61 1.90 2.00 0.34 5.00 0.59 0.03 0.61 1.95 2.00 0.34 5.00 0.59 0.03 0.61 2.00 2.00 0.34 5.00 0.59 0.03 0.61 2.05 2.00 0.34 5.00 0.59 0.03 0.61 2.10 2.00 0.34 5.00 0.59 0.03 0.61 2.15 2.00 0.34 5.00 0.59 0.03 0.61 2.20 2.00 0.34 5.00 0.59 0.03 0.61 2.25 2.00 0.34 5.00 0.59 0.03 0.61 2.30 2.00 0.34 5.00 0.59 0.03 0.61 2.35 2.00 0.34 5.00 0.59 0.03 0.61 2.40 2.00 0.34 5.00 0.59 0.03 0.61 2.45 2.00 0.34 5.00 0.59 0.03 0.61 2.50 2.00 0.34 5.00 0.59 0.03 0.61 2.55 2.00 0.34 5.00 0.59 0.03 0.61 2.60 2.00 0.34 5.00 0.59 0.03 0.61 2.65 2.00 0.34 5.00 0.59 0.03 0.61 2.70 2.00 0.34 5.00 0.59 0.03 0.61 2.75 2.00 0.34 5.00 0.59 0.03 0.61 2.80 2.00 0.34 5.00 0.59 0.03 0.61 2.85 2.00 0.34 5.00 0.59 0.03 0.61 2.90 2.00 0.34 5.00 0.59 0.03 0.61 2.95 2.00 0.34 5.00 0.59 0.03 0.61 3.00 2.00 0.34 5.00 0.59 0.03 0.61 3.05 2.00 0.34 5.00 0.59 0.03 0.61 3.10 2.00 0.34 5.00 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20.60 0.45 0.41 1.11 0.17 0.00 0.17 20.65 0.45 0.41 1.11 0.17 0.00 0.17 20.70 0.45 0.41 1.10 0.17 0.00 0.17 20.75 0.45 0.41 1.10 0.17 0.00 0.17 20.80 0.45 0.41 1.10 0.17 0.00 0.17 20.85 0.45 0.41 1.10 0.17 0.00 0.17 20.90 0.45 0.41 1.10 0.17 0.00 0.17 20.95 0.45 0.41 1.10 0.17 0.00 0.17 21.00 0.45 0.41 1.09 0.17 0.00 0.17 21.05 0.45 0.41 1.09 0.17 0.00 0.17 21.10 0.45 0.41 1.09 0.16 0.00 0.16 21.15 0.45 0.41 1.09 0.16 0.00 0.16 21.20 0.45 0.41 1.09 0.16 0.00 0.16 21.25 0.45 0.41 1.09 0.16 0.00 0.16 21.30 0.44 0.41 1.08 0.16 0.00 0.16 0.44 0.41 1.08 0.16 0.00 0.16 21.35 21.40 0.44 0.41 1.08 0.16 0.00 0.16 21.45 0.44 0.41 1.08 0.16 0.00 0.16 21.50 0.44 0.41 1.08 0.16 0.00 0.16 21.55 0.44 0.41 1.08 0.16 0.00 0.16 21.60 0.44 0.41 1.07 0.16 0.00 0.16 21.65 0.44 0.41 1.07 0.15 0.00 0.15 21.70 0.44 0.41 1.07 0.15 0.00 0.15 21.75 0.44 0.41 1.07 0.15 0.00 0.15 21.80 0.44 0.41 1.07 0.15 0.00 0.15 21.85 0.44 0.41 1.07 0.15 0.00 0.15 21.90 0.44 0.41 1.06 0.15 0.00 0.15 21.95 0.44 0.41 1.06 0.15 0.00 0.15 22.00 0.44 0.41 1.06 0.15 0.00 0.15 22.05 0.44 0.41 1.06 0.15 0.00 0.15 22.10 0.44 0.41 1.06 0.14 0.00 0.14 22.15 0.44 0.41 1.06 0.14 0.00 0.14 22.20 0.44 0.42 1.06 0.14 0.00 0.14 22.25 0.44 0.42 1.05 0.14 0.00 0.14 22.30 0.44 0.42 1.05 0.14 0.00 0.14 22.35 0.44 0.42 1.05 0.14 0.00 0.14 22.40 0.44 0.42 1.05 0.14 0.00 0.14 22.45 0.44 0.42 1.05 0.14 0.00 0.14 22.50 0.44 0.42 1.05 0.14 0.00 0.14 22.55 0.44 0.42 1.04 0.13 0.00 0.13 22.60 0.44 0.42 1.04 0.13 0.00 0.13 22.65 0.43 0.42 1.04 0.13 0.00 0.13 22.70 0.43 0.42 1.04 0.13 0.00 0.13 22.75 0.43 0.42 1.04 0.13 0.00 0.13 22.80 0.43 0.42 1.04 0.13 0.00 0.13 22.85 0.43 0.42 1.04 0.13 0.00 0.13 22.90 0.43 0.42 1.03 0.13 0.00 0.13 22.95 0.43 0.42 1.03 0.13 0.00 0.13 23.00 0.43 0.42 1.03 0.12 0.00 0.12 23.05 0.43 0.42 1.03 0.12 0.00 0.12 23.10 0.43 0.42 1.03 0.12 0.00 0.12 23.15 0.43 0.42 1.03 0.12 0.00 0.12 23.20 0.43 0.42 1.03 0.12 0.00 0.12 23.25 0.43 0.42 1.02 0.12 0.00 0.12 23.30 0.43 0.42 1.02 0.12 0.00 0.12 23.35 0.43 0.42 1.02 0.12 0.00 0.12 23.40 0.43 0.42 1.02 0.11 0.00 0.11 23.45 0.43 0.42 1.02 0.11 0.00 0.11 23.50 0.43 0.42 1.02 0.11 0.00 0.11 23.55 0.43 0.42 1.02 0.11 0.00 0.11 23.60 0.43 0.42 1.02 0.11 0.00 0.11 23.65 0.43 0.42 1.01 0.11 0.00 0.11 23.70 0.43 0.42 1.01 0.10 0.00 0.10 23.75 0.43 0.42 1.01 0.10 0.00 0.10 23.80 0.43 0.42 1.01 0.10 0.00 0.10 23.85 0.43 0.42 1.01 0.10 0.00 0.10 23.90 0.43 0.42 1.01 0.10 0.00 0.10 23.95 0.43 0.42 1.01 0.09 0.00 0.09 24.00 0.43 0.42 1.00 0.09 0.00 0.09 24.05 0.43 0.42 1.00 0.09 0.00 0.09 24.10 0.43 0.42 1.00 0.09 0.00 0.09 24.15 0.43 0.42 1.00 0.09 0.00 0.09 24.20 0.42 0.42 1.00* $0.08 \ 0.00 \ 0.08$ 24.25 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.30 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.35 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.40 0.42 0.43 0.99* 0.07 0.00 0.07 24.45 0.42 0.43 0.99* 0.07 0.00 0.07 24.50 0.42 0.43 0.99* 0.07 0.00 0.07 24.55 0.42 0.43 0.99* 0.07 0.00 0.07 24.60 0.42 0.43 0.99* $0.06 \ 0.00 \ 0.06$ 24.65 0.42 0.43 0.99* $0.06\ 0.00\ 0.06$ 24.70 0.42 0.43 0.99* $0.06\ 0.00\ 0.06$ 24.75 0.42 0.43 0.99* 0.05 0.00 0.05 24.80 0.42 0.43 0.98* 0.05 0.00 0.05 24.85 0.42 0.43 0.98* 0.05 0.00 0.05 24.90 $0.05\ 0.00\ 0.05$ 0.42 0.43 0.98* 24.95 0.42 0.43 0.98* 0.04 0.00 0.04 25.00 0.42 0.43 0.98* 0.03 0.00 0.03 25.05 0.42 0.43 0.99* 0.03 0.00 0.03 25.10 0.43 0.43 1.00* 0.02 0.00 0.02 25.15 0.43 0.43 1.00 0.02 0.00 0.02 25.20 0.43 0.43 1.01 0.02 0.00 0.02 25.25 0.44 0.43 1.02 0.02 0.00 0.02 25.30 0.44 0.43 1.03 0.02 0.00 0.02 25.35 0.44 0.43 1.03 0.02 0.00 0.02 25.40 0.45 0.43 1.04 0.01 0.00 0.01 25.45 0.45 0.43 1.05 0.01 0.00 0.01 25.50 0.45 0.43 1.06 0.01 0.00 0.01 0.46 0.43 1.06 0.01 0.00 0.01 25.55 25.60 0.46 0.43 1.07 0.01 0.00 0.01 25.65 0.47 0.43 1.08 0.01 0.00 0.01 25.70 0.47 0.43 1.09 0.01 0.00 0.01 25.75 0.47 0.43 1.10 0.01 0.00 0.01 25.80 0.48 0.43 1.10 0.01 0.00 0.01 25.85 0.48 0.43 1.11 0.01 0.00 0.01 25.90 0.48 0.43 1.12 0.00 0.00 0.00 25.95 0.49 0.43 1.13 0.00 0.00 0.00

26.00 0.49 0.43 1.13 0.00 0.00 0.00 26.05 0.49 0.43 1.14 0.00 0.00 0.00 26.10 0.50 0.43 1.15 0.00 0.00 0.00 26.15 0.50 0.43 1.16 0.00 0.00 0.00 26.20 0.51 0.43 1.17 0.00 0.00 0.00 26.25 0.51 0.43 1.18 0.00 0.00 0.00 26.30 0.51 0.43 1.18 0.00 0.00 0.00 26.35 0.52 0.43 1.19 0.00 0.00 0.00 26.40 0.52 0.43 1.20 0.00 0.00 0.00 26.45 0.52 0.43 1.21 0.00 0.00 0.00 26.50 0.53 0.43 1.22 0.00 0.00 0.00 26.55 0.53 0.43 1.23 0.00 0.00 0.00 26.60 0.54 0.43 1.23 0.00 0.00 0.00 26.65 0.54 0.43 1.24 0.00 0.00 0.00 26.70 0.54 0.44 1.25 0.00 0.00 0.00 26.75 0.55 0.44 1.26 0.00 0.00 0.00 26.80 0.55 0.44 1.27 0.00 0.00 0.00 26.85 0.56 0.44 1.28 0.00 0.00 0.00 26.90 0.56 0.44 1.29 0.00 0.00 0.00 26.95 0.57 0.44 1.30 0.00 0.00 0.00 27.00 0.57 0.44 1.31 0.00 0.00 0.00 27.05 0.57 0.44 1.31 0.00 0.00 0.00 27.10 0.58 0.44 1.32 0.00 0.00 0.00 27.15 0.58 0.44 1.33 0.00 0.00 0.00 27.20 0.59 0.44 1.34 0.00 0.00 0.00 27.25 0.59 0.44 1.35 0.00 0.00 0.00 27.30 0.60 0.44 1.36 0.00 0.00 0.00 27.35 0.60 0.44 1.37 0.00 0.00 0.00 27.40 0.61 0.44 1.38 0.00 0.00 0.00 27.45 0.61 0.44 1.39 0.00 0.00 0.00 27.50 0.61 0.44 1.40 0.00 0.00 0.00 27.55 0.62 0.44 1.41 0.00 0.00 0.00 27.60 0.62 0.44 1.42 0.00 0.00 0.00 27.65 0.63 0.44 1.44 0.00 0.00 0.00 27.70 0.63 0.44 1.45 0.00 0.00 0.00 27.75 0.64 0.44 1.46 0.00 0.00 0.00 27.80 0.64 0.44 1.47 0.00 0.00 0.00 27.85 0.65 0.44 1.48 0.00 0.00 0.00 27.90 0.71 0.44 1.63 0.00 0.00 0.00 27.95 0.72 0.44 1.64 0.00 0.00 0.00 28.00 0.73 0.44 1.66 0.00 0.00 0.00 28.05 0.74 0.44 1.67 0.00 0.00 0.00 28.10 0.74 0.44 1.69 0.00 0.00 0.00 28.15 0.75 0.44 1.71 0.00 0.00 0.00 28.20 0.76 0.44 1.72 0.00 0.00 0.00 28.25 0.77 0.44 1.74 0.00 0.00 0.00 28.30 0.78 0.44 1.76 0.00 0.00 0.00 28.35 0.79 0.44 1.78 0.00 0.00 0.00 28.40 0.80 0.44 1.81 0.00 0.00 0.00 28.45 0.81 0.44 1.83 0.00 0.00 0.00 28.50 0.82 0.44 1.85 0.00 0.00 0.00 28.55 0.83 0.44 1.88 0.00 0.00 0.00 28.60 0.84 0.44 1.91 0.00 0.00 0.00 28.65 0.86 0.44 1.94 0.00 0.00 0.00

28.70	0.88 0.44 1.98 0.00 0.00 0.00
28.75	0.90 0.44 2.03 0.00 0.00 0.00
28.80	0.92 0.44 2.09 0.00 0.00 0.00
28.85	0.96 0.44 2.17 0.00 0.00 0.00
28.90	1.02 0.44 2.30 0.00 0.00 0.00
28.95	1.11 0.44 2.50 0.00 0.00 0.00
29.00	1.11 0.44 2.50 0.00 0.00 0.00
29.05	1.11 0.44 2.49 0.00 0.00 0.00
29.10	1.11 0.44 2.49 0.00 0.00 0.00
29.15	1.11 0.44 2.49 0.00 0.00 0.00
29.20	1.11 0.44 2.49 0.00 0.00 0.00
29.25	1.11 0.44 2.49 0.00 0.00 0.00
29.30	1.11 0.44 2.49 0.00 0.00 0.00
29.35	1.11 0.44 2.49 0.00 0.00 0.00
29.40	1.11 0.44 2.49 0.00 0.00 0.00
29.45	1.11 0.44 2.49 0.00 0.00 0.00
29.50	1.11 0.44 2.49 0.00 0.00 0.00
29.55	1.11 0.44 2.49 0.00 0.00 0.00
29.60	1.11 0.44 2.48 0.00 0.00 0.00
29.65	1.11 0.45 2.48 0.00 0.00 0.00
29.70	1.11 0.45 2.48 0.00 0.00 0.00
29.75	1.11 0.45 2.48 0.00 0.00 0.00
29.80	1.11 0.45 2.48 0.00 0.00 0.00
29.85	1.11 0.45 2.48 0.00 0.00 0.00
29.90	1.11 0.45 2.48 0.00 0.00 0.00
29.95	1.11 0.45 2.48 0.00 0.00 0.00
30.00	1.11 0.45 2.48 0.00 0.00 0.00
30.05	1.11 0.45 2.48 0.00 0.00 0.00
30.10	1.11 0.45 2.48 0.00 0.00 0.00
30.15	1.11 0.45 2.48 0.00 0.00 0.00
30.20	1.11 0.45 2.48 0.00 0.00 0.00
30.25	1.11 0.45 2.48 0.00 0.00 0.00
30.30	1.11 0.45 2.48 0.00 0.00 0.00
30.35	1.11 0.45 2.48 0.00 0.00 0.00
30.40	1.11 0.45 2.48 0.00 0.00 0.00
30.45	1.11 0.45 2.48 0.00 0.00 0.00
30.50	1.11 0.45 2.48 0.00 0.00 0.00
30.55	1.11 0.45 2.48 0.00 0.00 0.00
30.60	1.11 0.45 2.48 0.00 0.00 0.00
30.65	1.11 0.45 2.48 0.00 0.00 0.00
30.70	1.11 0.45 2.48 0.00 0.00 0.00
30.75	1.11 0.45 2.48 0.00 0.00 0.00
30.80	1.11 0.45 2.48 0.00 0.00 0.00
30.85	1.11 0.45 2.48 0.00 0.00 0.00
30.90	1.11 0.45 2.48 0.00 0.00 0.00
30.95	1.11 0.45 2.48 0.00 0.00 0.00
31.00	1.11 0.45 2.48 0.00 0.00 0.00
31.05	1.11 0.45 2.48 0.00 0.00 0.00
31.10	1.11 0.45 2.48 0.00 0.00 0.00
31.15	1.11 0.45 2.48 0.00 0.00 0.00
31.20	1.11 0.45 2.48 0.00 0.00 0.00
31.25	1.11 0.45 2.48 0.00 0.00 0.00
31.30	1.11 0.45 2.48 0.00 0.00 0.00
31.35	1.11 0.45 2.48 0.00 0.00 0.00

31.40	1.11 0.45 2.48 0.00 0.00 0.00
31.45	1.11 0.45 2.48 0.00 0.00 0.00
31.50	1.11 0.45 2.48 0.00 0.00 0.00
	1.11 0.45 2.48 0.00 0.00 0.00
31.55	
31.60	1.11 0.45 2.48 0.00 0.00 0.00
31.65	1.11 0.45 2.48 0.00 0.00 0.00
31.70	1.11 0.45 2.48 0.00 0.00 0.00
31.75	1.11 0.45 2.48 0.00 0.00 0.00
31.80	1.11 0.45 2.48 0.00 0.00 0.00
31.85	1.11 0.45 2.48 0.00 0.00 0.00
31.90	1.11 0.45 2.48 0.00 0.00 0.00
31.95	1.11 0.45 2.48 0.00 0.00 0.00
32.00	1.11 0.45 2.48 0.00 0.00 0.00
32.05	1.11 0.45 2.48 0.00 0.00 0.00
32.10	1.11 0.45 2.48 0.00 0.00 0.00
32.15	1.11 0.45 2.48 0.00 0.00 0.00
32.20	1.11 0.45 2.48 0.00 0.00 0.00
32.25	1.11 0.45 2.48 0.00 0.00 0.00
32.30	1.11 0.45 2.48 0.00 0.00 0.00
32.35	1.11 0.45 2.48 0.00 0.00 0.00
32.40	1.11 0.45 2.48 0.00 0.00 0.00
32.45	1.11 0.45 2.48 0.00 0.00 0.00
32.50	1.11 0.45 2.48 0.00 0.00 0.00
32.55	1.11 0.45 2.48 0.00 0.00 0.00
32.60	1.11 0.45 2.48 0.00 0.00 0.00
32.65	1.11 0.45 2.48 0.00 0.00 0.00
32.70	1.11 0.45 2.48 0.00 0.00 0.00
32.75	1.11 0.45 2.48 0.00 0.00 0.00
32.80	1.11 0.45 2.48 0.00 0.00 0.00
32.85	1.11 0.45 2.48 0.00 0.00 0.00
32.90	1.11 0.45 2.48 0.00 0.00 0.00
32.95	1.11 0.45 2.48 0.00 0.00 0.00
33.00	1.11 0.45 2.48 0.00 0.00 0.00
33.05	1.11 0.45 2.48 0.00 0.00 0.00
33.10	1.11 0.45 2.48 0.00 0.00 0.00
33.15	1.11 0.45 2.48 0.00 0.00 0.00
33.20	1.11 0.45 2.48 0.00 0.00 0.00
33.25	1.11 0.45 2.48 0.00 0.00 0.00
33.30	1.11 0.45 2.48 0.00 0.00 0.00
33.35	1.11 0.45 2.48 0.00 0.00 0.00
33.40	1.11 0.45 2.48 0.00 0.00 0.00
33.45	1.11 0.45 2.48 0.00 0.00 0.00
33.50	1.11 0.45 2.48 0.00 0.00 0.00
33.55	1.11 0.45 2.48 0.00 0.00 0.00
33.60	1.11 0.45 2.48 0.00 0.00 0.00
33.65	1.11 0.45 2.48 0.00 0.00 0.00
33.70	1.11 0.45 2.48 0.00 0.00 0.00
33.75	1.11 0.45 2.48 0.00 0.00 0.00
33.80	1.11 0.45 2.48 0.00 0.00 0.00
33.85	1.11 0.45 2.48 0.00 0.00 0.00
33.90	1.11 0.45 2.48 0.00 0.00 0.00
33.95	1.11 0.45 2.48 0.00 0.00 0.00
34.00	1.11 0.45 2.48 0.00 0.00 0.00
34.05	1.11 0.44 2.48 0.00 0.00 0.00
34.03	1.11 0.44 2.46 0.00 0.00 0.00

34.10	1.11 0.44 2.49 0.00 0.00 0.00
34.15	1.11 0.44 2.49 0.00 0.00 0.00
34.20	1.11 0.44 2.49 0.00 0.00 0.00
34.25	1.11 0.44 2.49 0.00 0.00 0.00
34.30	1.11 0.44 2.49 0.00 0.00 0.00
34.35	1.11 0.44 2.49 0.00 0.00 0.00
34.40	1.11 0.44 2.49 0.00 0.00 0.00
34.45	1.11 0.44 2.49 0.00 0.00 0.00
34.50	1.11 0.44 2.49 0.00 0.00 0.00
34.55	1.11 0.44 2.49 0.00 0.00 0.00
34.60	1.11 0.44 2.49 0.00 0.00 0.00
34.65	1.11 0.44 2.49 0.00 0.00 0.00
34.70	1.11 0.44 2.49 0.00 0.00 0.00
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35.00	1.11 0.44 2.49 0.00 0.00 0.00
35.05	1.11 0.44 2.49 0.00 0.00 0.00
35.10	1.11 0.44 2.49 0.00 0.00 0.00
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35.55	1.11 0.44 2.49 0.00 0.00 0.00
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36.70	1.11 0.44 2.50 0.00 0.00 0.00
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36.80	1.11 0.44 2.50 0.00 0.00 0.00
36.85	1.11 0.44 2.50 0.00 0.00 0.00
36.90	1.11 0.44 2.50 0.00 0.00 0.00
36.95	1.11 0.44 2.50 0.00 0.00 0.00
37.00	1.11 0.44 2.50 0.00 0.00 0.00
37.05	1.11 0.44 2.50 0.00 0.00 0.00
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37.20	1.11 0.44 2.50 0.00 0.00 0.00
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37.30	1.11 0.44 2.52 0.00 0.00 0.00
37.35	1.11 0.44 2.52 0.00 0.00 0.00
37.40	1.11 0.44 2.52 0.00 0.00 0.00
37.45	1.11 0.44 2.52 0.00 0.00 0.00
37.50	1.11 0.44 2.52 0.00 0.00 0.00
37.55	1.11 0.44 2.52 0.00 0.00 0.00
37.60	1.11 0.44 2.52 0.00 0.00 0.00
37.65	1.11 0.44 2.52 0.00 0.00 0.00
37.70	1.11 0.44 2.52 0.00 0.00 0.00
37.75	1.11 0.44 2.52 0.00 0.00 0.00
37.80	1.11 0.44 2.52 0.00 0.00 0.00
37.85	1.11 0.44 2.52 0.00 0.00 0.00
37.90	1.11 0.44 2.52 0.00 0.00 0.00
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37.95	
38.00	1.11 0.44 2.52 0.00 0.00 0.00
38.05	1.11 0.44 2.52 0.00 0.00 0.00
38.10	1.11 0.44 2.52 0.00 0.00 0.00
38.15	1.11 0.44 2.52 0.00 0.00 0.00
38.20	1.11 0.44 2.52 0.00 0.00 0.00
38.25	1.11 0.44 2.52 0.00 0.00 0.00
38.30	1.11 0.44 2.52 0.00 0.00 0.00
38.35	1.11 0.44 2.52 0.00 0.00 0.00
38.40	1.09 0.44 2.49 0.00 0.00 0.00
38.45	1.08 0.44 2.46 0.00 0.00 0.00
38.50	1.07 0.44 2.43 0.00 0.00 0.00
38.55	1.06 0.44 2.40 0.00 0.00 0.00
38.60	1.05 0.44 2.38 0.00 0.00 0.00
38.65	1.04 0.44 2.36 0.00 0.00 0.00
38.70	1.03 0.44 2.34 0.00 0.00 0.00
38.75	1.02 0.44 2.32 0.00 0.00 0.00
38.80	1.01 0.44 2.30 0.00 0.00 0.00
38.85	1.00 0.44 2.29 0.00 0.00 0.00
38.90	1.00 0.44 2.27 0.00 0.00 0.00
38.95	0.99 0.44 2.26 0.00 0.00 0.00
	0.99 0.44 2.24 0.00 0.00 0.00
39.00	
39.05	0.98 0.44 2.23 0.00 0.00 0.00
39.10	0.97 0.44 2.22 0.00 0.00 0.00
39.15	0.97 0.44 2.21 0.00 0.00 0.00
39.20	0.96 0.44 2.20 0.00 0.00 0.00
39.25	0.96 0.44 2.19 0.00 0.00 0.00
39.30	0.95 0.44 2.18 0.00 0.00 0.00
39.35	0.95 0.44 2.17 0.00 0.00 0.00
39.40	0.95 0.44 2.16 0.00 0.00 0.00
39.45	0.94 0.44 2.15 0.00 0.00 0.00

39.50 0.94 0.44 2.14 0.00 0.00 0.00 39.55 0.93 0.44 2.13 0.00 0.00 0.00 39.60 0.93 0.44 2.12 0.00 0.00 0.00 39.65 0.93 0.44 2.12 0.00 0.00 0.00 39.70 0.92 0.44 2.11 0.00 0.00 0.00 39.75 0.92 0.44 2.10 0.00 0.00 0.00 39.80 0.92 0.44 2.09 0.00 0.00 0.00 39.85 0.91 0.44 2.09 0.00 0.00 0.00 39.90 0.91 0.44 2.08 0.00 0.00 0.00 39.95 0.91 0.44 2.08 0.00 0.00 0.00 40.00 0.90 0.44 2.07 0.00 0.00 0.00 40.05 0.90 0.44 2.06 0.00 0.00 0.00 40.10 0.90 0.44 2.06 0.00 0.00 0.00 40.15 0.90 0.44 2.05 0.00 0.00 0.00 40.20 0.89 0.44 2.05 0.00 0.00 0.00 40.25 0.89 0.44 2.04 0.00 0.00 0.00 40.30 0.89 0.44 2.04 0.00 0.00 0.00 40.35 0.89 0.44 2.03 0.00 0.00 0.00 40.40 0.88 0.44 2.03 0.00 0.00 0.00 40.45 0.88 0.44 2.02 0.00 0.00 0.00 40.50 0.88 0.44 2.02 0.00 0.00 0.00 40.55 0.88 0.44 2.01 0.00 0.00 0.00 40.60 0.88 0.44 2.01 0.00 0.00 0.00 40.65 0.87 0.44 2.00 0.00 0.00 0.00 40.70 0.87 0.44 2.00 0.00 0.00 0.00 40.75 0.87 0.44 1.99 0.00 0.00 0.00 40.80 0.87 0.44 1.99 0.00 0.00 0.00 40.85 0.87 0.44 1.99 0.00 0.00 0.00 40.90 0.86 0.44 1.98 0.00 0.00 0.00 40.95 0.86 0.44 1.98 0.00 0.00 0.00 41.00 0.86 0.44 1.97 0.00 0.00 0.00 41.05 0.86 0.44 1.97 0.00 0.00 0.00 41.10 0.86 0.44 1.97 0.00 0.00 0.00 41.15 0.85 0.44 1.96 0.00 0.00 0.00 41.20 0.85 0.44 1.96 0.00 0.00 0.00 41.25 0.85 0.44 1.96 0.00 0.00 0.00 41.30 0.85 0.43 1.95 0.00 0.00 0.00 41.35 0.85 0.43 1.95 0.00 0.00 0.00 41.40 0.85 0.43 1.95 0.00 0.00 0.00 41.45 0.84 0.43 1.94 0.00 0.00 0.00 41.50 0.84 0.43 1.94 0.00 0.00 0.00 41.55 0.84 0.43 1.94 0.00 0.00 0.00 41.60 0.84 0.43 1.93 0.00 0.00 0.00 41.65 0.84 0.43 1.93 0.00 0.00 0.00 41.70 0.84 0.43 1.93 0.00 0.00 0.00 41.75 0.84 0.43 1.92 0.00 0.00 0.00 41.80 0.83 0.43 1.92 0.00 0.00 0.00 41.85 0.83 0.43 1.92 0.00 0.00 0.00 41.90 0.83 0.43 1.92 0.00 0.00 0.00 41.95 0.83 0.43 1.91 0.00 0.00 0.00 42.00 0.83 0.43 1.91 0.00 0.00 0.00 42.05 0.83 0.43 1.91 0.00 0.00 0.00 42.10 0.82 0.43 1.90 0.00 0.00 0.00 42.15 0.82 0.43 1.90 0.00 0.00 0.00

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48.45
          0.71 0.42 1.69 0.00 0.00 0.00
48.50
          0.71 0.42 1.69 0.00 0.00 0.00
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          0.71 0.42 1.69 0.00 0.00 0.00
48.60
          0.70 0.42 1.69 0.00 0.00 0.00
48.65
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          0.69 0.41 1.67 0.00 0.00 0.00
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          0.69 0.41 1.67 0.00 0.00 0.00
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          0.69 0.41 1.67 0.00 0.00 0.00
49.75
          0.69 0.41 1.66 0.00 0.00 0.00
49.80
          0.69 0.41 1.66 0.00 0.00 0.00
49.85
          0.69 0.41 1.66 0.00 0.00 0.00
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          0.69 0.41 1.66 0.00 0.00 0.00
49.95
          0.69 0.41 1.66 0.00 0.00 0.00
50.00
          0.69 0.41 1.66 0.00 0.00 0.00
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* F.S.<1, Liquefaction Potential Zone (F.S. is limited to 5, CRR is limited to 2,

CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

1 atm (atmosphere) = 1 tsf (ton/ft2)

CRRm Cyclic resistance ratio from soils

CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)

F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf

S_sat Settlement from saturated sands S_dry Settlement from Unsaturated Sands

S_all Total Settlement from Saturated and Unsaturated Sands

No-Liquefy Soils



GEOTECHNICAL CONSULTANTS

APPENDIX D

REFERENCES



GEOTECHNICAL CONSULTANTS

APPENDIX D

REFERENCES

- 1. ASCE/SEI 7-16, 2019, Minimum Design Loads for Buildings and Other Structures.
- 2. Bartow, J. A., 1991, The Cenozoic Evolution of the San Joaquin Valley, California, USGS Professional Paper 1501.
- 3. Borches, J. W. and Carpenter, M., 2014, Land Subsidence from Groundwater Use in California: Luhdorff and Scalimanni Consulting Engineers.
- 4. Bailey, E. H., Irwin, W. P., and Jones, D. L. (1964). *Franciscan and related rocks and their significance in the geology of western California* (Vol. 183). California Division of Mines and Geology.
- 5. Branum, D. and others, 2008, Earthquake Shaking Potential for California: California Geological Survey Map Sheet 48.
- 6. Bryant, W. A. and Hart, E. W., 2007, Fault-Rupture Hazard Zones in California: California Department of Conservation, Division of Mines and Geology Special Publication 42, Interim Revision 2007 and online updates.
- 7. California Building Standards Commission, 2022 California Building Code.
- 8. California Department of Conservation, Division of Mines and Geology, 2008, Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication, 117.
- 9. California Department of Water Resources, Sustainable Groundwater Management Act (SGMA) Data Viewer https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels and Groundwater Level Monitoring Website: http://www.water.ca.gov/groundwater/data_and_monitoring/levels.cfm
- 10. California Geologic Survey, California Earthquake History and Catalogs (https://www.conservation.ca.gov/cgs/Pages/Earthquakes/Earthquakes-Significant.aspx)
- 11. California Geological Survey, November 2022, Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings, Note 48.
- 12. Churchill, R. K. and Hill, R. L., 2000, A General Location Guide for Ultramfic Rocks in California Areas More Likely to Contain Naturally Occurring Asbestos: Department of Conservation, Division of Mines and Geology Open-File Report 2000-19.
- 13. City of Fresno Master Environmental Impact Report, December 5, 2014, Chapter 5.6, Geology and Soils (https://www.fresno.gov/darm/wp-content/uploads/sites/10/2016/11/Sec-05-06-Geo-Fresno-MEIR.pdf).
- 14. Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM) #06019C1430H Effective on February 18, 2009 (https://msc.fema.gove/portal).
- 15. Fresno County, October 3, 2000, General Plan Background Report.



GEOTECHNICAL CONSULTANTS

- 16. Galloway, D. L., Hudnut, K. W., Ingebritsen, S. E., Phillips, S. P., Peltzer, G., Rogez, F., & Rosen, P. A. (1998). Detection of aquifer system compaction and land subsidence using interferometric synthetic aperture radar, Antelope Valley, Mojave Desert, California. *Water Resources Research*, 34(10), 2573-2585.
- 17. Gutierrez, C. and others, 2010, Geologic Map of California: California Geological Survey Map No. 2.
- 18. Harden, D. R. 2004. California Geology. 2nd ed. Pearson-Prentice Hall.
- 19. Hammond, W. C., Blewitt, G., Li, Z., Plag, H. P., & Kreemer, C. (2012). Contemporary uplift of the Sierra Nevada, western United States, from GPS and InSAR measurements. *Geology*, *40*(7), 667-670.
- 20. Irwin, W. P. (1990). Geology and plate-tectonic development. *The San Andreas Fault System, California*, 1515, 61-80.
- 21. Jennings, C. W., and Bryant, W. A., 2010, Fault Activity Map of California, California Geological Survey, Geologic Data Map No. 6.
- 22. Martin, G. R. and Lew, M., 1999, Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction Hazards in California, Southern California Earthquake Center publication.
- 23. Miller, D. C., 1989, Potential Hazards from Future Volcanic Eruptions in California: U.S. Geological Survey Bulletin 1847.
- 24. Page, R. W. (1986). *Geology of the fresh ground-water basin of the Central Valley, California: with texture maps and sections*. US Government Printing Office.
- 25. Seed, H.B. and Whitman, R.V., 1970, "Design of Earth Retaining Structures for Dynamic Loads" Proceedings, ASCE Specialty Conference on lateral stresses in the ground and design of earth retaining structures, ASCE, pp 103-147
- 26. Structural Engineers Association of California and California Office of Statewide Planning and Development, 2022, Seismic Design Maps, ASCE 7-16 Standard, https://seismicmaps.org/
- 27. Structural Engineers Association of California Seismology Committee (2019), "Seismically Induced Lateral Earth Pressures on Retaining Structures and Basement Walls," August 2019, *The SEAOC Blue Book: Seismic Design Recommendations*, Structural Engineers Association of California, Sacramento, CA.
- 28. Wakabayashi, J. (1992). Nappes, tectonics of oblique plate convergence, and metamorphic evolution related to 140 million years of continuous subduction, Franciscan Complex, California. *The Journal of Geology*, 100(1), 19-40.
- 29. Wakabayashi, J. (2011). Mélanges of the Franciscan Complex, California: Diverse structural settings, evidence for sedimentary mixing, and their connection to subduction processes. *Geological Society of America Special Papers*, 480, 117-141.

Proposed PS/TK/K Classroom Buildings at Bailey Elementary School Firebaugh, California

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Appendix D

Phase I Environmental Site Assessment



Phase I Environmental Site Assessment

Hazel M. Bailey Primary School Classroom Expansion
Project
1691 Q Street
Firebaugh, California

prepared for

Firebaugh-Las Deltas Unified School District 1976 Morris Kyle Drive

Firebaugh, California 93622

prepared by

Rincon Consultants, Inc.

Report Date – October 23, 2024 Date of First Research – April 10, 2024



Rincon Consultants, Inc.



7080 North Whitney Avenue, Suite 101 Fresno, California 93720 805-644-4455

October 23, 2024 Project No.: 23-15573

Terry Bradley, District Consultant
Firebaugh-Las Deltas Unified School District
1976 Morris Kyle Drive
Firebaugh, California 93622
Via email: tbradley@sbcons.com

Subject: Phase I Environmental Site Assessment, Hazel M. Bailey Primary School Classroom Expansion

Project, 1691 Q Street, Firebaugh, California

Dear Mr. Bradley:

This report presents the findings of a Phase I Environmental Site Assessment (ESA) completed by Rincon Consultants, Inc. (Rincon) for the Hazel M. Bailey Primary School Classroom Expansion Project located at 1691 Q Street in Firebaugh, California. The Phase I ESA was performed in accordance with our proposal dated March 15, 2024 and contract dated April 4, 2024. In addition, the report meets the requirements of California Code of Regulations Title 22 Section 69100 and California Education Code Sections 17210(g) and 17213.1(a)(1) through (4).

The accompanying report presents our findings and provides an opinion regarding the presence of recognized environmental conditions in connection with the subject property. Our work program for this project, as referenced in our contract, is intended to meet the guidelines outlined in the ASTM International (ASTM) Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* (ASTM Standard E1527-21). Our scope of services, pursuant to ASTM practice, did not include any inquiries with respect to asbestos-containing building materials unrelated to releases into the environment; biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint unrelated to releases into the environment; lead in drinking water; mold or microbial growth conditions; polychlorinated biphenyl-containing building materials (e.g., interior fluorescent light ballasts, paint, and caulk); naturally-occurring radon; regulatory compliance; substances not defined as hazardous substances (including some substances sometimes generally referred to as emerging contaminants) unless or until such substances are classified as a Comprehensive Environmental Response, Compensation, and Liability Act hazardous substance; and wetlands.

Thank you for selecting Rincon for this project. If you have any questions, or if we can be of any future assistance, please contact us.

Sincerely,

Rincon Consultants, Inc.

Savanna Vrevich

Environmental Scientist

Ryan Thacher, PhD, PE

Director of Site Assessment and Remediation

Senior Environmental Scientist

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Appendices

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 Appendix B Historical Research Documentation
 Appendix C Regulatory Records Database Search
 Appendix D Regulatory Documentation

1 Executive Summary

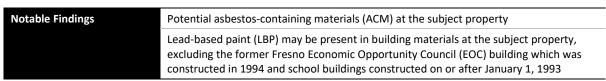
This report presents the findings of a Phase I Environmental Site Assessment (ESA) for the property located at 1691 Q Street in Firebaugh, California (subject property). The Phase I ESA was performed for Firebaugh-Las Deltas Unified School District by Rincon Consultants, Inc. (Rincon). Firebaugh-Las Deltas Unified School District has requested this assessment and will use the information for the purpose of constructing additional classrooms and updating existing portable buildings at the subject property. The subject property is currently developed with an elementary school and preschool. It is our understanding that the proposed future use of the subject property remains unchanged.

The research completed as part of this Phase I ESA is listed below:

Task	Completed	Date Reviewed	Concern Identified?
User-Provided – Title Report	Requested	Not Applicable (N/A)	N/A
User-Provided – Lien Search Report	Requested	N/A	N/A
User-Provided – Additional Documents	Yes	07/18/2024	No
Historical Research – Aerial Photographs	Yes	04/11/2024	No
Historical – Topographic Maps	Yes	04/11/2024	No
Historical – Fire Insurance Maps	Yes, none available	04/10/2024	N/A
Historical – City Directories	Yes	04/15/2024	No
Physical Setting	Yes	04/10/2024	No
Agency Database Report	Yes	04/12/2024	No
Agency File Reviews	Yes	04/12/2024	No
Interviews – User Questionnaire	Yes	07/12/2024	No
Interviews – Owner Questionnaire	Yes	07/12/2024	No
Interviews – Other	No	N/A	N/A
Site Reconnaissance	Yes	05/22/2024	No
Vapor Migration Research	Yes	04/16/2024	No
DTSC Information Requirements	Yes	06/14/2024	Yes

Rincon completed additional research and evaluation as part of this Phase I ESA to assist Firebaugh-Las Deltas Unified School District with California Department of Toxic Substances Control (DTSC) information requirements per California Code of Regulations (CCR) Title 22 Section 69104(d) and California Education Code (CEC) Sections 17210(g) and 17213.1(a)(1) through (4).

Based on the findings of this Phase I ESA, it is our opinion that no recognized environmental conditions, historical recognized environmental conditions, or controlled recognized environmental conditions were identified for the subject property. However, Notable Findings were identified in connection with the subject property as follows.





Organochlorine pesticides (OCPs) may have been used as termiticides in soil surrounding the buildings at the subject property, excluding the former Fresno EOC building, which was constructed in 1994, and school buildings constructed on or after January 1, 1989.

To evaluate the potential subject property impact associated with potential ACM, LBP, and OCPs that may have been used as termiticides for the onsite structures based on their age, we recommend:

- ACM and LBP surveys be performed for structures proposed for demolition or renovation
- LBP surveys be performed for buildings constructed prior to January 1, 1993 within proposed construction areas that would involve soil disturbance or perform a subsurface investigation in accordance with the DTSC's Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC 2006)
- A subsurface investigation be performed for impacts from termiticides for structures with wooden components built prior to January 1, 1989 in accordance with the DTSC's Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC 2006), unless Firebaugh-Las Deltas Unified School District can provide documentation that termiticides have not been applied to soil at the subject property.

Additionally, we recommend that Firebaugh-Las Deltas Unified School District submit this Phase I ESA to the DTSC for review if required per CCR Title 22 Section 69104 and CEC Section 17213.

2 Introduction

This report presents the findings of a Phase I Environmental Site Assessment (ESA) conducted for the property located at 1691 Q Street in Firebaugh, California (subject property; Figure 1). The Phase I ESA was performed by Rincon Consultants, Inc. (Rincon) for Firebaugh-Las Deltas Unified School District in general conformance with ASTM International (ASTM) Standard E1527-21, California Code of Regulations (CCR) Title 22 Section 69100 et seq., California Education Code (CEC) Sections 17210 (g) and 17213.1(a)(1) through (4), our proposal dated March 15, 2024, and our contract dated April 4, 2024. This report presents our findings and provides our opinion as to the presence of recognized environmental conditions (RECs) on the subject property.

2.1 Subject Property Description

The subject property is located east of Q Street and north of Saipan Street in Firebaugh, California (Figure 2). Additional information regarding the subject property is listed below in Table 1.

Table 1 Subject Property Characteristics

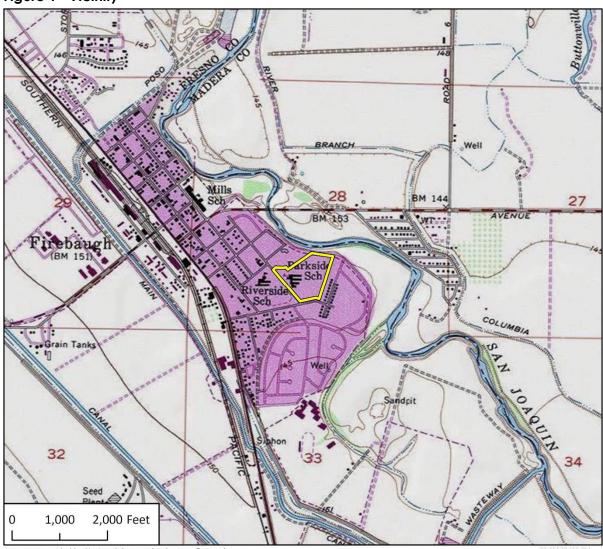
Property Characteristic	Description
Subject Property Address(es)	1691 Q Street, Firebaugh, California
Historical Subject Property Address(es)	1691 Q Street, Firebaugh, California
Assessor's Parcel Number(s)/Acreage	008-020-63T/ 17 acres
No. of Buildings/Year of Construction	Multiple/ Various, as early as approximately 1956
Subterranean Features	None
Current Subject Property Use	Elementary school and preschool with two solar arrays
Current Owner of Subject Property	Firebaugh-Las Deltas Unified School District
Current Tenant(s) of Subject Property	Hazel M. Bailey Primary School

2.1.1 Descriptions of Roads and Other Improvements on the Subject Property

During the site reconnaissance, multiple school administration buildings and classrooms, a playground, recreational fields, and two solar arrays were observed on the subject property. Chainlink and iron fencing was noted around the perimeter of the subject property. Access to the subject property is available from driveways on Q Street and Saipan Street. The following utility providers service the subject property:

Electrical Service	Pacific Gas & Electric (PG&E)
Natural Gas Service	PG&E
Water Service	City of Firebaugh
Sewer Service	City of Firebaugh
Solid Waste Service	City of Firebaugh

Figure 1 Vicinity



Imagery provided by National Geographic Society, Esri and its licensors © 2024. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.



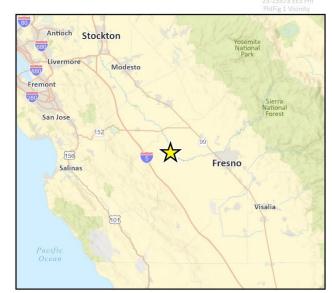
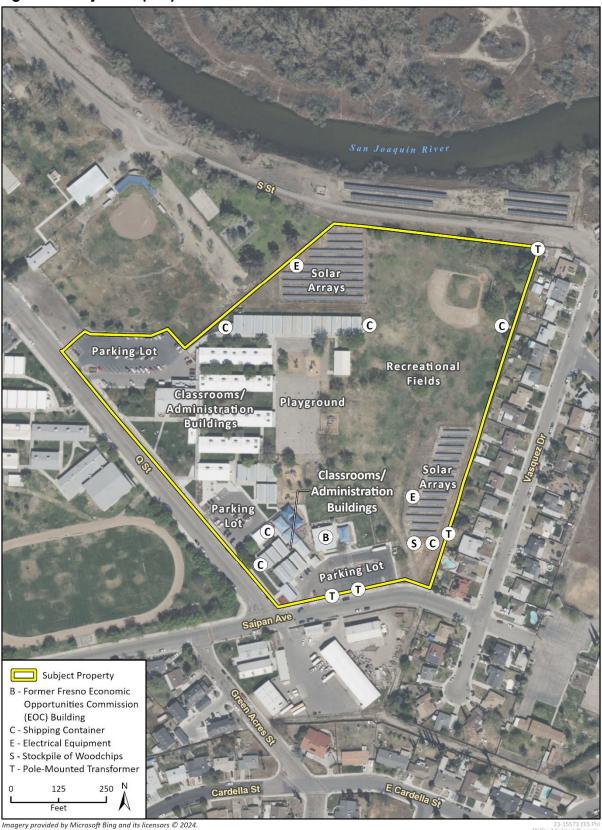


Figure 2 Subject Property



2.1.2 General Vicinity Characteristics

The subject property is located in an area that is primarily composed of residential and educational land uses. The current adjacent land uses are described in Table 2 and depicted on Figure 3.

Table 2 Current Uses of Adjacent Properties

Area	Use
Northern Properties	Park and an unpaved road/trail followed by a solar array and the San Joaquin River
Eastern Properties	Single-family residences
Southern Properties	Saipan Street followed by a Firebaugh-Las Deltas Unified School District Maintenance, Operations, and Transportation facility (1657/1666 Saipan Street)
Western Properties	Q Street followed by Firebaugh Middle School (1600 16 th Street)

Figure 3 Adjacent Land Use



Phase I Environmental Site Assessment

2.2 Purpose and Definitions

Firebaugh-Las Deltas Unified School District has requested this assessment and will use the information for the purpose of constructing additional classrooms and updating existing portable buildings at the subject property. The purpose of this Phase I ESA was to determine if there are RECs on the subject property, taking into account commonly and reasonably ascertainable information, and to qualify for Landowner Liability Protections under the Brownfields Amendments to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In addition, because the subject property is developed with a public elementary school and preschool, the Phase I ESA evaluates items for California Department of Toxic Substances Control (DTSC) consideration (Section 9 of this Phase I ESA) per CCR Title 22 Section 69104(d) and CEC Sections 17210(g) and 17213.1(a)(1) through (4).

A REC is defined pursuant to ASTM E1527-21 as,

- "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment;
- (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or
- (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

As stated in ASTM E1527-21, "**likely** is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein."

A **Controlled REC** is defined pursuant to ASTM E1527-21 as, "recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations)."

A **Historical REC** is defined pursuant to ASTM E1527-21 as, "a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition."

A *de minimis* condition is defined pursuant to ASTM E1527-21 as, "a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition."

A **Property Use Limitation** is defined pursuant to ASTM E1527-21 as, "a limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous substances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria."

A **Significant Data Gap** is defined pursuant to ASTM E1527-21 as, "a data gap that affects the ability of the environmental professional to identify a recognized environmental condition."

2.2.1 Notable Finding

Although not defined by ASTM E1527-21, Rincon utilizes the term *Notable Finding* for potential environmental concerns present at or possibly present at a property that do not specifically fit one of the above ASTM-defined situations yet may impact current or future use of the subject property.

2.3 Scope of Services

The scope of services conducted during this study is outlined below:

- Performed a reconnaissance of the subject property to identify obvious indicators of the existence of hazardous materials.
- Observed adjacent or nearby properties from public thoroughfares in an attempt to see if such properties are likely to use, store, generate, or dispose of hazardous materials.
- Obtained and reviewed an environmental records database search to obtain information about the potential for hazardous materials to exist at the subject property or at properties located in the vicinity of the subject property.
- Reviewed files for the subject property and immediately adjacent properties as identified in the database report, as applicable.
- Reviewed the current United States Geological Survey (USGS) topographic map to obtain information about the subject property and regional topography and uses of the subject property and surrounding sites.
- Reviewed additional pertinent record sources (e.g., California Geologic Energy Management Division [CalGEM] records, online databases of hazardous substance release sites), as necessary, to identify the presence of RECs at the subject property.
- Reviewed the California State Water Resources Control Board (SWRCB) Statewide Per- and Polyfluoroalkyl Substances (PFAS) Investigation online Public Map Viewer regarding current PFAS orders issued to facilities located in the vicinity of the subject property.
- Reviewed reasonably ascertainable historical resources (e.g., aerial photographs, topographic maps, fire insurance maps, city directories) to assess the historical land use of the subject property and adjacent properties.
- Provided a user interview questionnaire to a representative of Firebaugh-Las Deltas Unified School District, the user of the Phase I ESA.
- Provided a property owner interview questionnaire to the property owner or a designated subject property representative identified to Rincon by Firebaugh-Las Deltas Unified School District.
- Conducted interviews with other property representatives (e.g., key site manager, occupants), as applicable.
- Reviewed available Firebaugh-Las Deltas Unified School District-provided information (e.g., previous environmental reports, title documentation).
- Requested Title Search Information Reports and environmental lien search information from the user of the report.

2.4 Significant Assumptions, Limitations, Deviations, Exceptions, Special Terms, and Conditions

This work is intended to adhere to good commercial, customary, and generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No guarantee or warranties, expressed or implied, are provided. The findings and opinions conveyed in this report are based on findings derived from a site reconnaissance, review of an environmental database report, specified regulatory records and historical sources, and

comments made by interviewees. This report is not intended as a comprehensive site characterization and should not be construed as such. Standard data sources relied upon during the completion of Phase I ESAs may vary with regard to accuracy and completeness. Although Rincon believes the data sources are reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used. Additionally, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary research.

Rincon has not found evidence that hazardous materials or petroleum products exist at the subject property at levels likely to warrant mitigation. Rincon does not under any circumstances warrant or guarantee that not finding evidence of hazardous materials or petroleum products means that hazardous materials or petroleum products do not exist on the subject property. Additional research, including surface or subsurface sampling and analysis, can reduce Firebaugh-Las Deltas Unified School District's risks, but no techniques commonly employed can eliminate these risks altogether.

In addition, pursuant to ASTM E1527-21 practice, our scope of services did not include any inquiries with respect to asbestos-containing building materials unrelated to releases into the environment; biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint unrelated to releases into the environment; lead in drinking water; mold or microbial growth conditions; polychlorinated biphenyl (PCB)-containing building materials (e.g., interior fluorescent light ballasts, paint, and caulk); naturally-occurring radon; regulatory compliance; substances not defined as hazardous substances (including some substances sometimes generally referred to as emerging contaminants) unless or until such substances are classified as a CERCLA hazardous substance; and wetlands.

2.5 ASTM Deviations

Deviations from ASTM E1527-21 practice were encountered during the completion of this Phase I ESA. User and Owner Questionnaires were not returned as of the date of this report, and the interiors of onsite buildings were not observed during the site reconnaissance. In addition, an environmental lien search was not completed as part of this assessment; however, one was requested from the user.

2.6 User Relignate

Firebaugh-Las Deltas Unified School District has requested this assessment and will use the information for the purpose of constructing additional classrooms and updating existing portable buildings at the subject property. This Phase I ESA was prepared for use solely and exclusively by Firebaugh-Las Deltas Unified School District, the DTSC, the California Department of Education (CDE), and the Local Educational Agency (LEA). No other use or disclosure is intended or authorized by Rincon. Also, this report is issued with the understanding that it is to be used only in its entirety. It is intended for use only by Firebaugh-Las Deltas Unified School District, the DTSC, the CDE, and the LEA, and no other person or entity may rely upon the report without the express written consent of Rincon.

3 User-Provided Information and Responsibilities

3.1 Review Land Title Records and Judicial Records for Environmental Liens and Activity and Use Limitations

Rincon requested title search information reports from the user of the report. Pursuant to ASTM E1527-21,

"the title search information reports shall identify environmental covenants, environmental easements, land use covenant and agreements, declaration of environmental land use restrictions, environmental land use controls, environmental use controls, environmental liens, or any other recorded instrument that restricts, affects, or encumbers the title to the subject property due to restrictions or encumbrances associated with the presence of hazardous substances or petroleum products. Title search information reports shall review land title records for documents recorded between 1980 and the present. If judicial records are not reviewed, the title search information report shall include a statement providing that the law or custom in the jurisdiction at issue does not require a search for judicial records in order to identify environmental liens."

As stated in ASTM E1527-21 it is the "user's responsibility to search for environmental liens and activity and land use limitations (AULs)." This is in "addition to the environmental professional's search of institutional control and engineering control registries described in" ASTM E1527-21 Section 8.2.

As of the date of this report, title search information records have not been provided to Rincon.

3.2 User Questionnaire

As described in ASTM E1527-21 Section 6, a User Questionnaire as provided by ASTM E1527-21 Appendix X3 was provided to Firebaugh-Las Deltas Unified School District. The purpose of the User Questionnaire is for the user of the Phase I ESA to provide actual knowledge pertaining to the subject property to help identify RECs. Maritza Rodriguez, Project Manager with Firebaugh-Las Deltas Unified School District, completed the User Questionnaire on July 6, 2024. A copy of the completed questionnaire is included as Appendix A.

Based on our review of the completed questionnaire, the user indicated the following:

- The Phase I ESA is required for new or expanding school properties that will be financed using state bonds.
- A lease transaction is planned for the subject property.
- The purchase price being paid for the subject property reasonably reflects the fair market value of the property.

Based on our review of the completed questionnaire, the user did not review the following sources of information and is unaware of information regarding the following:

- Recorded land title records (or judicial records, where appropriate) that identify any environmental liens filed or recorded against the subject property
- Recorded land title records (or judicial records, where appropriate) that identify any AULs, such
 as engineering controls, land use restrictions or institutional controls that are in place at the
 property and/or have been filed or recorded against the subject property under federal, tribal,
 state, or local law
- Title Report that identifies information pertaining to environmental cleanup liens or AULs for the subject property

Based on our review of the completed questionnaire, the user is unaware of information regarding the following:

- Specialized knowledge or experience related to the subject property or nearby properties
- Reduction in value for the subject property relative to any known environmental issues
- Commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases
- Obvious indicators that point to the presence or likely presence of releases at the subject property
- Pending, threatened, or past litigation relevant to hazardous substances or petroleum products, in, on, or from the subject property
- Pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property
- Notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products

3.3 User-Provided Document Review

The following documents regarding the subject property were provided by Firebaugh-Las Deltas Unified School District:

- Geotechnical Investigation and Geohazards Study Report, RMA GeoScience, Inc., 2024. Based on our review of this report, the subject property is underlain by reworked, import, and native soils. Reworked/import soils were encountered to a maximum depth of 2 feet below ground surface (bgs). Groundwater was encountered in test borings at a depth of approximately 12.5 to 14 feet bgs. Environmental hazards related to hazardous materials or RECs were not identified in connection with the subject property.
- Fresno Economic Opportunities Commission (EOC) Building, Firebaugh-Las Deltas Unified School District, October 1, 2024. This letter indicates that the former onsite building owned by Fresno EOC and located in the southern portion of the subject property was newly constructed when purchased on December 31, 1994 and relocated to the subject property in 2006-2007 (Figure 2). The building has since been removed from the subject property by Fresno EOC.

4 Physical Setting Resources and Government Records

4.1 Physical Setting Resources

4.1.1 Topography

The current USGS topographic map (Firebaugh Quadrangle 2021) indicates that the subject property is situated at an elevation of approximately 150 feet above mean sea level with topography slightly sloping down to the east. The adjacent topography consists of relatively flat land. A copy of the current USGS topographic map is included in Appendix A (Environmental Data Resources, Inc. 2024e).

4.1.2 Geology and Hydrogeology

According to the Geotechnical Investigation and Geohazards Study Report prepared for the subject property (RMA GeoScience, Inc. 2024), the subject property is underlain by reworked, import, and native soils that are described as silts, sands, and clays related to deep alluvial deposits.

According to the Geologic Map of California (Jennings et al. 2010), the subject property is underlain by alluvium, lake, playa, and terrace deposits.

During the preparation of this Phase I ESA, we reviewed the California SWRCB's online GeoTracker database to determine groundwater flow direction in the vicinity of the subject property. File reviews conducted for surrounding release sites indicate that groundwater is typically encountered between approximately 10 and 17 feet bgs with flow directions reported to the southwest, northeast, and west. However, based upon the proximity of the subject property to the San Joaquin River, 115 feet to the north, it is anticipated that groundwater at the subject property and immediate vicinity likely flows towards the river. The information obtained regarding groundwater in the vicinity of the subject property is listed below:

Source Address, Distance, and Direction from Subject Property	Groundwater Depth (feet bgs)	Groundwater Flow Direction	Source
Subject Property	12.5-14 feet	Unknown	Geotechnical Investigation and Geohazards Study Report (RMA GeoScience, Inc. 2024)
Calpine Container Facility 1440 M Street – 0.4 mile west	15.17-16.90 feet	Southwest	GeoTracker website (SWRCB 2024a) – 2012 groundwater monitoring report
Thomason Tractor of California 985 12 th Street – 0.7 mile west	Approx. 10 feet	Unknown	GeoTracker website (SWRCB 2024a) – 2022 soil and groundwater investigation report
Italo's Mini Mart 785 N Street – 0.8 mile northwest	16.65-17.03 feet	Northeast	GeoTracker website (SWRCB 2024a) – 2023 groundwater monitoring report
Westside Ford Lincoln Mercury 1503 8 th Street - 0.8 mile northwest	15.22-15.78	West	GeoTracker website (SWRCB 2024a) – 2023 groundwater monitoring report

4.2 Government Record Sources and Agency Records Review

Rincon outsourced with a regulatory database search contractor, EDR, to obtain records of sites that generate, store, treat, or dispose of hazardous materials and sites for which a hazardous material release incident has occurred. The regulatory database search was conducted for the subject property and included data from surrounding sites within specified radii of the subject property. A copy of the database report, which specifies the ASTM E1527-21 search distance for each public list, is included as Appendix B. As shown on the EDR database report, federal, state, and county lists were reviewed as part of the research effort. Please refer to Appendix B for a complete listing of sites reported by EDR and a description of the databases reviewed.

The Map Findings Summary, included in the database report, provides a summary of the databases searched, the number of reported facilities within the search radii, and whether the facility is located onsite or adjacent to the subject property.

As a follow-up to the database search, Rincon reviewed regulatory information for the subject property and nearby listings that were interpreted to have the potential to impact the subject property, based on one or more of the factors listed below:

- Reported distance of the facility from the subject property;
- The nature of the database on which the facility is listed, and/or whether the facility was listed on a database reporting unauthorized releases of hazardous materials, petroleum products, or hazardous wastes;
- Reported case type (e.g., soil only, failed underground storage tank [UST] test only);
- Reported substance released (e.g., chlorinated solvents, gasoline, metals);
- Reported regulatory agency status (e.g., case closed, "no further action"); and,
- Location of the facility with respect to the reported groundwater flow direction (discussed in Section 4.1 of this report).

Facilities/properties that were interpreted by Rincon to be of potential environmental concern to the subject property, based on one or more of the factors listed above, are summarized below. In accordance with ASTM E1527-21, contamination migration pathways in soil, groundwater, and soil vapor were considered in our analysis of offsite properties of potential environmental concern.

The following sections include a summary of our review of the database report and the regulatory information obtained from online sources (e.g., SWRCB GeoTracker database, DTSC EnviroStor database, local fire department) and/or files requested from the applicable regulatory agency. Copies of selected documents reviewed are included in Appendix C.

4.2.1 Orphan Listings

Orphan or unmapped site listings were not reported in the EDR database report.

4.2.2 National Priorities List

National Priorities List sites were not identified in the EDR database report.

4.2.3 Subject Property

4.2.3.1 1691 Q Street (Firebaugh-Las Deltas Unified School District/ Hazel M. Bailey)

Database Summary	The subject property was listed in non-release databases: HWTS, RCRA NonGen/NLR, HAZNET, FINDS, and ECHO. These listings indicate that hazardous materials are handled and stored onsite and disposed offsite; however, no releases have been reported.
Agency Records	The subject property was not listed on GeoTracker or EnviroStor; however, agency records for the subject property were requested from the County of Fresno (County) on April 10, 2024. On April 12, 2024 the County indicated that records are available on the online Environmental Health portal. Agency records were reviewed online on April 12, 2024 and include consumer food protection inspection reports, environmental health permits to operate a permanent food facility (school cafeteria), and documents related to a kitchen remodel, from 2007 to 2023. No records pertaining to hazardous materials were available on the online document portal.
Potential Impacts to Soil, Soil Vapor, and/or Groundwater at Subject Property	No – based on lack of reported releases

4.2.4 Adjacent Properties

4.2.4.1 Southern Adjacent Property – 1657/1666 Saipan Street (Firebaugh-Las Deltas Unified School District)

Database Summary	The southern adjacent property was listed on the following release databases: LUST, HIST CORTESE, UST FINDER RELEASE, and CUPA Listings databases as Firebaugh School District at Q Street & Saipan Street These listings indicate that a release of gasoline to groundwater occurred
	from a UST in 1985 and the case was closed in 1996.
	This property was also listed in a non-release database: RCRA NonGen/NLR. This listing indicate that the facility was not a generator of hazardous waste in 2018.
Agency Records	The southern adjacent property was listed as a LUST case on GeoTracker. Agency records for the site were requested from the Central Valley Regional Water Quality Control Board (RWQCB) on April 10, 2024; on April 22, 2024 the RWQCB indicated that records are available for in-person review. Records were also requested from the County on April 10, 2024. On April 12, 2024 the County indicated that records are available on the online Environmental Health portal. Agency records were reviewed online on April 12, 2024, as summarized below.
Agency Lead	Central Valley RWQCB
Listing/Case Status	Closed as of 1996
Soil Impacts/Contaminants of Concern (COCs)	Yes/ Total petroleum hydrocarbons in the gasoline (TPHg) and diesel (TPHd) ranges, volatile organic compounds (VOCs), and lead
Soil Vapor Impacts/COCs	Unknown
Groundwater Impacts/COCs	Yes/ TPHd, VOCs
	-

Groundwater Depth/Flow Direction	Approx. 14 feet bgs/ Unknown			
Site Distance from Subject Property	Adjacent to the south across Saipan Street, approximately 60 feet south			
Release Distance from Subject Property	Approx. 90 feet south			
Potential Impacts to Soil, Soil Vapor, and/or Groundwater at Subject Property	No – Based on distance to the subject property			

Notes: According to the case documents available via the County, one 10,000-gallon diesel UST was removed from the central portion of site in 1987 and TPHd- and VOC-impacted soil and groundwater were identified in the UST excavation. Additional soil sampling and groundwater monitoring was conducted, and impacted soil was removed and disposed offsite. The Central Valley RWQCB concluded that "numerous rounds of groundwater monitoring have demonstrated that the impact to groundwater has been minimal and that soil remediation has effectively addressed groundwater degradation as well." This former UST was located approximately 200 feet south of the subject property.

Additionally, two gasoline, one diesel, and one waste oil UST of various capacities were abandoned in place in the northern portion of the site in 1999. Soil samples collected in the vicinity of the USTs and pump island contained TPHg, TPHd, VOCs, and lead. Based on the detected concentrations, the environmental consultant concluded that the "low concentrations are likely due to past over-spillage. It is unclear based on the records available if additional soil sampling or groundwater sampling was conducted, although the County of Fresno approved the in-place abandonment of the USTs, which are located approximately 90 feet south of the subject property.

4.2.5 Nearby Release Sites within 1/3 Mile

Database Summary

In addition to the adjacent listed sites described above, the database search identified 10 release sites within 1/3 mile of the subject property. Regulatory agency files reviewed for the nearby release sites are discussed below.

Agency Records

Agency records for the 10 nearby release sites were reviewed online at GeoTracker/EnviroStor and are summarized in Table 3.

Table 3 Summary of Release Sites Located within 1/3 Mile of the Subject Property

Site Name/ Address	Listed Regulatory Databases	Agency Lead	Case Status	Soil Impacts/ COCs	Soil Vapor Impacts/ COCs	Groundwater Impacts/ COCs	Groundwater Depth/Flow Direction	Site Distance (Feet) and Direction from Subject Property	Release Distance and Direction from Subject Property	Potential Impacts to Soil, Soil Vapor and/or Groundwater at the Subject Property
'G&E Firebaugh Substation .459 Saipan Street	LUST, Cortese, HIST CORTESE, CERS, UST FINDER RELEASE, SWEEPS UST, HIST UST, CUPA Listings	Central Valley RWQCB	Closed as of 2000	Yes/ TPHg, VOCs, lead	Unknown	Yes/ TPHg, VOCs	Approx. 14-15 feet bgs/ Northwest	Approx. 1,000 feet west	Approx. 1,000 feet west	No – Based on the distance to the subject property and hydrologically downgradient location relative to th subject property
etter). Records were requested	report, a release of gasoline to groundwater occ d from the Central Valley RWQCB on April 12, 202 from the site in 1995, impacted soil was excavat	24; on April 22, 202	4 the RWQCB indicated	d that records are	available for in-p	erson review. Record	ds were reviewed on the c	online County Environmenta	ıl Health portal on April	
.azz's Car Wash 1606 N Street	LUST, Cortese, UST FINDER RELEASE, CUPA Listings, HIST CORTESE	Central Valley RWQCB	Closed as of 1996	Yes/ TPHg, TPHd, TRPH, VOCs	Unknown	Yes/ TPHg, TPHd, TRPH, VOCs	Approx. 8 feet bgs/ Unknown	Approx. 1,660 feet west	Approx. 1,660 feet west	No – Based on the distance to the subject property
Health portal on April 15, 2024;	report, a release of gasoline to groundwater occ ; the records indicate that four petroleum USTs w if the additional assessment or remediation was	vere removed from	the site in 1995 and pe			•	•			·
Ag & Industrial Supply Inc. (Former) 7377 River Drive	UST FINDER RELEASE, LUST, Cortese, CERS, HIST UST, HIST CORTESE	Central Valley RWQCB	Open – Site Assessment as of 2017	Yes/ TPHd, acetone	Yes/ Benzene	Yes/ TPHd, TPHmo	Unknown	Approx. 1,480 feet east	Approx. 1,480 feet east	No – Based on the distance to the subject property
petroleum hydrocarbon-impact	report, a release of gasoline to groundwater occited soil, soil vapor, and groundwater at the site. I petroleum concentrations in soil should be furth	The RWQCB conclud	ded that based on its re	eview of the 2024	subsurface inves	tigation report, the '	-		-	
Chevron #2544 1407 N Street	UST FINDER RELEASE, LUST, Cortese, HIST CORTESE, CERS	Central Valley RWQCB	Closed as of 1997	Yes/ TPHg, VOCs	Unknown	Yes/ TPHg, VOCs	Approx. 9-19 feet bgs/ North-northwest	Approx. 1,480 feet west	Approx. 1,480 feet west	No – Based on the distance to the subject property
was determined to be impacted	report, a release of gasoline to groundwater occ d with TPHg and VOCs; groundwater remediation ds, which have demonstrated a tendency to degr	via free product re						_		=
Vacant Commercial Building 1388 O Street	US BROWNFIELDS, FINDS	EPA	Unknown	Unknown	Unknown	Unknown	Unknown	Approx. 1,550 feet west-northwest	Unknown	No – Based on lack of reported releases and distance to the subject property
According to the EDR database	report, this property was formerly used as a chul	rch and was assesse	ed in 2010 via a Phase I	ESA as part of an	EPA Brownfields	program grant. No a	additional information is a	vailable in the EDR databas	e report or on the GeoT	racker/EnviroStor online databases.
Two Residential Dwellings 1368/1370 O Street	US BROWNFIELDS, FINDS	EPA	Unknown	Unknown	Unknown	Unknown	Unknown	Approx. 1,550 feet west-northwest	Unknown	No – Based on lack of reported releases and distance to the subject property
According to the EDR database online databases.	report, this property was formerly used as two re	esidential dwellings	and was assessed in 2	010 via a Phase I I	ESA as part of an	EPA Brownfields pro	gram grant. No additional	information is available in	the EDR database repor	t or on the GeoTracker/EnviroStor
Vacant Blue House 1459 14 th Street	US BROWNFIELDS, FINDS	EPA	Unknown	Unknown	Unknown	Unknown	Unknown	Approx. 1,600 feet west-northwest	Unknown	No – Based on lack of reported releases and distance to the subject property
According to the EDR database databases.	report, this property was formerly used as a residual	dential dwelling and	d was assessed in 2010	via a Phase I ESA	as part of an EPA	Brownfields program	m grant. No additional info	ormation is available in the	EDR database report or	on the GeoTracker/EnviroStor online
Sally Ann's/Valley Garage 1381/1415/1435 14 th Street	US BROWNFIELDS, FINDS	EPA	Unknown	Unknown	Unknown	Unknown	Unknown	Approx. 1,650 feet west-northwest	Unknown	No – Based on lack of reported releases and distance to the subject property

According to the EDR database report, this property was formerly used as a beauty retail shop, residential apartment, and a likely automotive repair shop, and was assessed in 2010 and 2011 via a Phase I ESA and Phase II ESA as part of an EPA Brownfields program grant. No additional information is available in the EDR database report or on the GeoTracker/EnviroStor online databases.

Site Name/ Address	Listed Regulatory Databases	Agency Lead	Case Status	Soil Impacts/ COCs	Soil Vapor Impacts/ COCs	Groundwater Impacts/ COCs	Groundwater Depth/Flow Direction	Site Distance (Feet) and Direction from Subject Property	Release Distance and Direction from Subject Property	Potential Impacts to Soil, Soil Vapor, and/or Groundwater at the Subject Property
Belli Car Wash 1365 N Street	US BROWNFIELDS, FINDS	EPA	Unknown	Unknown	Unknown	Unknown	Unknown	Approx. 1,700 feet west-northwest	Unknown	No – Based on lack of reported releases and distance to the subject property
According to the EDR database r GeoTracker/EnviroStor online da	report, this property was formerly used as a car atabases.	wash and gasoline s	tation and was assess	ed in 2010 via a Ph	nase I ESA as part	of an EPA Brownfie	lds program grant. No add	itional information is availa	ble in the EDR database	e report or on the
Quality Machinery Center, J.A. Quinn Trust 1366 N Street	UST FINDER RELEASE, US BROWNFIELDS, FINDS, LUST, Cortese, CUPA Listings, HIST CORTESE, CERS	 Central Valley RWQCB Central Valley 	1996	 Yes/ TPHg, TPHd, VOCs Yes/ TPHg, 	1. Unknown 2. Unknown	 Yes/ TPHg, VOCs Yes/ TPHg, 	Approx. 15 feet bgs/ North	Approx. 1,750 feet west	Approx. 1,750 feet west	No – Based on the distance to the subject property

According to the EDR database report, this property is associated with two closed leaking UST cases as follows:

RWQCB

2000

1. The first case involves a release of gasoline to groundwater that was discovered in 1991 during UST closure activities and was closed in 1996. No case documents are available on the GeoTracker database. Records were reviewed on the online County Environmental Health portal on April 16, 2024; the records indicate that one petroleum UST was removed from the site in 1991; TPHg-, TPHd-, and VOC-impacted groundwater was identified. It is unclear based on the records available if remediation was conducted at the site.

VOCs

VOCs

2. The second case involves a release of gasoline to groundwater that was discovered in 1995 during UST closure activities, and was closed in 2000. Case documents available on the GeoTracker database indicate that two additional petroleum USTs were removed from the site in 1995 and TPHg- and VOC-impacted soil and groundwater were identified. The case was recommended for closure because the USTs had not been used for more than 20 years and natural attenuation of residual petroleum hydrocarbons was expected to have occurred since the USTs were last used and was expected to continue in the future.

bgs – Below ground surface	RWQCB – Regional Water Quality Control Board	TPHmo – Total petroleum hydrocarbons as motor oil	VOC – Volatile organic compound
EPA – Environmental Protection Agency	TPHd – Total petroleum hydrocarbons as diesel	TRPH – Total recoverable petroleum hydrocarbons	
ESA – Environmental Site Assessment	TPHg – Total petroleum hydrocarbons as gasoline	UST – Underground storage tank	

4.3 Review of State of California Geologic Energy Management Division (CalGEM) Records

A review of the CalGEM Online Mapping System indicates that no oil wells are located on the subject property or adjacent properties, or within 0.25 mile of the subject property (CalGEM 2024).

4.4 Review of National Pipeline Mapping System Records

A review of the National Pipeline Mapping System (NPMS) online Public Map Viewer indicates that no hazardous liquid pipelines are located on the subject property or adjacent properties. One active natural gas transmission pipeline (PG&E Pipeline ID 134A_P2) is located adjacent to the west and south of the subject property along Q Street and Saipan Avenue as shown on Figure 3. No pipeline-related accidents or incidents are mapped within 0.25 mile of the subject property (United States Department of Transportation 2024).

4.5 Review of California Statewide PFAS Investigation

Beginning in 2019, the SWRCB sent assessment requirements to property owners of sites that may be potential sources of PFAS. These sites currently include select airports, chrome plating facilities, Department of Defense (DoD) sites, landfills, publicly owned treatment works facilities, and bulk fuel storage terminals and refineries. According to the SWRCB, "PFAS are a large group of human-made substances that do not occur naturally in the environment and are resistant to heat, water, and oil" (SWRCB 2024b). There are 57 known classes of PFAS comprising hundreds of individual PFAS compounds that were, or still are commercially produced. Only two PFAS compounds have undergone sufficient toxicological testing to have been assigned United States Environmental Protection Agency (USEPA) Health Advisory Levels: perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). Other PFAS compounds can be transformed into PFOA and PFOS in the environment (USEPA 2024).

Our April 10, 2024 review of the California PFAS Investigations online map viewer indicates that there are no current airport, chrome plating, DoD, landfill, publicly owned treatment works facilities, or bulk fuel storage terminals and refineries with PFAS orders listed as located within 0.5 mile of the subject property (SWRCB 2024c).

Our April 10, 2024 review of the online GeoTracker PFAS Map viewer indicates that PFOA and PFOS were not detected in effluent or influent samples collected from the Kerman Wastewater Treatment Facility located approximately 16.5 miles southeast of the subject property and tested as part of a PFAS investigative order (SWRCB 2024c). No drinking water wells tested for PFAS are located within 20 miles of the subject property.

5 Historical Records

5.1 Methodology

The historical records review completed for this Phase I ESA includes aerial photographs, topographic maps, fire insurance maps, city directories, and building permits as detailed in the following sections. Copies of the historical resources reviewed are included in Appendix A. Table 4 provides a summary of the historical use information available for the subject property and adjacent properties.

Review of Aerial Photographs	Aerial photographs from EDR's aerial photograph collection were obtained. In addition, a current aerial photograph from Google Earth was reviewed. The aerial photographs were reviewed on April 11, 2024.
Review of Historical Topographic Maps	Historical topographic maps from EDR's map collection were obtained. The historical topographic maps were reviewed on April 11, 2024.
Review of City Directory Listings	EDR was contracted to provide copies of city directory listings for the subject property. The city directory listings were reviewed on April 15, 2024. As indicated in the attached report, no records were provided for the northern or eastern adjacent properties.
Review of Fire Insurance Maps	EDR was contracted to provide copies of fire insurance maps (i.e., Sanborns) for the subject property. As indicated in the attached report, fire insurance maps were not available for the subject property or adjacent properties.
Review of Building Permit Records	Building permit records for the subject property were reviewed on the County online Citizens Portal on April 12, 2024. The files contained applications pertaining to permanent food facility operations from 1999 and 2018.
Other Historical Sources	Based on the sufficiency of historical information obtained for the purposes of this report, no additional historical sources were reviewed.

5.2 Summary of Subject Property and Adjacent Historical Uses

Table 4 Historical Use of the Subject Property and Adjoining Properties

Year	Source	Subject Property Use	Adjoining Property Use
1923	Topographic Map (TM)	Undeveloped land	North (N): Unpaved road and undeveloped land followed by a river (San Joaquin River)
			East (E), West (W): Undeveloped land
			South (S): Unpaved road followed by undeveloped land
1937	Aerial	Undeveloped land with an unpaved	N: Unpaved road and undeveloped land followed by a
	Photograph	road/trail traversing the central-	river (San Joaquin River)
	(AP)	northern portion	E, S, W: Undeveloped land
1941	TM	Similar to the 1923 TM	Similar to the 1923 TM
1946	TM	Similar to the 1941 TM	N, E: Similar to the 1941 TM
			S: Four buildings
			W: Four buildings
1946	AP	Cleared, vacant land	N: Similar to the 1937 AP
			E, S, W: Cleared, vacant land

Year	Source	Subject Property Use	Adjoining Property Use
1947	TM	Similar to the 1946 TM	N, E: Similar to the 1946 TM
			S: Seven buildings
			W: Five buildings
1950	AP	Agricultural land (dry farming) and vacant land in the western corner	N: Unpaved road, baseball field, and vacant land followed by the San Joaquin River
			E, S: Agricultural land (dry farming)
			W: Road and agricultural land (dry farming) followed by a few residential and commercial buildings
1956	TM	Parkside School	N: Two buildings and an unpaved road followed by the San Joaquin River
			E: Several buildings
			S: Road followed by undeveloped land
			W: Road followed by Riverside School
1957, 1960	AP	School buildings in the western portion, and vacant land/playing	N: Baseball field, vacant land, and unpaved road followed by the San Joaquin River
		fields on the eastern portion	E: Residential buildings and vacant land
			S: Road followed by one commercial building and vacant land
			W: Road followed by a school
1962	TM	Similar to the 1956 TM	N: One building and an unpaved road followed by the San Joaquin River
			E, S, W: Similar to the 1956 TM
1967, 1973	AP	Similar to the 1960 AP, with the addition of a paved parking area in	N: Baseball field, orchard, and unpaved road followed by the San Joaquin River
		the southern portion	E: Additional residential buildings
			S: Similar to the 1960 AP
			W: Road followed by two commercial buildings and parked trailers/buses
1973,	City	Not listed	N, E: Not listed
1975	Directory (CD)		S, W: Mills Intermediate School (1600 P St.)
1979	AP	Similar to the 1973 AP	N, E, W: Similar to the 1973 AP
			S: Road followed by four commercial buildings and parked trailers/buses
1980	CD	Firebaugh School Parkside (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
1981	AP	Similar to the 1979 AP	Similar to the 1979 AP
1984	TM	Similar to the 1962 TM; shaded	Similar to the 1962 TM; shaded area, indicating urban
		area, indicating urban development	development
1985,	CD	Firebaugh School/ Hazel M. Bailey	N, E: Not listed
1990, 1992, 1995		Primary School (1691 Q St.)	S, W: Residential (1585 P St.)

Year	Source	Subject Property Use	Adjoining Property Use
1998	АР	Similar to the 1981 AP, with the addition of several school buildings in the western portion of the site and the removal of at least one school building in the southwestern portion	N: Baseball field/park and unpaved road followed by the San Joaquin River; two aboveground storage tanks, a structure, and two ponds to the northeast E, W: Similar to the 1981 AP S: Six commercial buildings
2000, 2005	CD	Firebaugh Las Deltas Unified School District/ Hazel M. Bailey Primary School (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
2006, 2009	АР	Similar to the 1998 AP, with the addition of at least one school building in the southwestern corner and the Fresno EOC building sometime between 2006 and 2009	N, E, W: Similar to the 1998 AP S: Seven commercial buildings and parked trailers/buses
2010	CD	Hazel M. Bailey Primary School (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
2012	АР	Similar to the 2009 AP, with the addition of two areas of solar arrays	Similar to the 2009 AP
2012	ТМ	No individual structures depicted	No individual structures depicted N: Undeveloped land and a road followed by the San Joaquin River E: Undeveloped land S, W: Road followed by undeveloped land
2014	CD	Firebaugh Las Deltas Unified School District/ Hazel M. Bailey Primary School (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
2015	TM	Similar to the 2012 TM	N, E, S: Similar to the 2012 TM W: Road followed by a school
2016	AP	Similar to the 2012 AP	Similar to the 2012 AP
2017	CD	Firebaugh Las Deltas Unified School District (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
2018	TM	School	N, E, W: Similar to the 2015 TM S: Road followed by a school
2020	АР	Similar to the 2016 AP	N: Baseball field/park and unpaved road followed by a solar array and the San Joaquin River; two aboveground storage tanks, a structure, and two ponds to the northeast E, S, W: Similar to the 2016 AP
2020	CD	Firebaugh Las Deltas Unified School District/ Hazel M. Bailey Primary School (1691 Q St.)	N, E: Not listed S, W: Residential (1585 P St.)
2021	TM	School	Similar to the 2018 TM

5.3 Gaps in Historical Sources

Three gaps of greater than 5 years were identified in the historical records reviewed, from 1923 to 1937, 1950 to 1956, and 1967 to 1973. These gaps are considered insignificant because the subject property use appears to be similar prior to and following the gaps.

6 Interviews

Rincon performed interviews regarding the subject property and surrounding areas. The purpose of the interviews was to discuss current and historical conditions and to obtain information indicating the presence of RECs in connection with the subject property.

6.1 Interview Summaries

6.1.1 Interview with Owner

An interview questionnaire was provided to the property owner, Firebaugh-Las Deltas Unified School District, prior to the site reconnaissance. Maritza Rodriguez, Project Manager with Firebaugh-Las Deltas Unified School District, completed the Owner Questionnaire on July 8, 2024. A copy of the completed questionnaire is included in Appendix A. The following information is based on our review of the completed questionnaire.

The property owner indicated the following:

- The subject property is currently a primary school.
- The structures on the subject property were built in about 1950.
- Firebaugh-Las Deltas Unified School District obtained ownership of the subject property in 1950.
- There are no hazardous materials or petroleum products stored or used on the subject property.
- No hazardous wastes are generated at the subject property.

The property owner indicated that she is unaware of the presence of industrial drums, storage tanks (above or below ground), fill dirt, pits, ponds, lagoons, sumps, clarifiers, solvent degreasers, stained soil, vent pipes, fill pipes, or access ways, stained surfaces, private wells, non-public water systems, transformers, capacitors, or hydraulic equipment, records indicating the presence of PCBs, or records indicating the presence of pesticides or herbicides at the subject property.

The property owner indicated that she is not aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property. In addition, she is not aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the subject property.

6.1.2 Interview with Site Manager

A site manager was not identified to Rincon.

6.1.3 Interviews with Occupants

No school occupants or representatives were interviewed as part of this research effort.

6.1.4 Interviews with Local Government Officials

Rincon contacted the following agencies for records pertaining to the subject property and southern adjacent property:

- Central Valley RWQCB Public records for the southern adjacent property (1657 Saipan Street)
 were requested on April 10, 2024, and on April 22, 2024 the RWQCB indicated that records are
 available for in-person review.
- County of Fresno Public records for the subject property and the southern adjacent property (1657 Saipan Street) were requested on April 10, 2024, and on April 12, 2024 the County of Fresno indicated that records are available on the online Environmental Health portal.

6.1.5 Interviews with Others

Rincon did not attempt to interview neighboring property owners or others as part of this Phase I ESA.

7 Site Reconnaissance

Rincon performed a reconnaissance of the subject property on May 22, 2024. The purpose of the reconnaissance was to observe existing subject property conditions and to obtain information indicating the presence of RECs in connection with the subject property.

7.1 Methodology and Limiting Conditions

The site reconnaissance was conducted by:

- 1. Observing the subject property from public thoroughfares,
- 2. Observing the adjacent properties from public thoroughfares,
- 3. Walking the subject property,
- 4. Observing the exterior of the structures, and
- 5. Observing the subject property from driveways, roads, and sidewalks.

Our observation of the subject property was limited to the exterior of the onsite classroom and administrative buildings.

7.2 General Subject Property Information

7.2.1 Current Use of Subject Property and Adjacent Properties

The subject property is currently in use as a public elementary school and preschool, including two solar arrays. Adjacent properties include single-family residences, a park, a middle school, and a Firebaugh-Las Deltas Unified School District Maintenance, Operations, and Transportation facility.

7.2.2 Past Use of Subject Property and Adjacent Properties

Based on our site reconnaissance, past uses at the subject property and adjacent properties are not readily apparent.

7.2.3 Current or Past Uses in the Surrounding Areas

The subject property is surrounded by residential, commercial, and educational land uses as detailed in Section 2.1 of this report. Past uses of the surrounding area are not readily apparent based on the site reconnaissance.

7.2.4 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

Geologic, hydrogeologic, hydrologic, and topographic information are as previously stated in Section 4.1 of this report.

7.2.5 General Description of Subject Property

Structures	Multiple school administration buildings and classrooms		
Roads	Q Street is located adjacent to the west and Saipan Street is located adjacent to the south of the subject property.		
Potable Water Supply	The City of Firebaugh currently supplies potable water to the subject property.		
Sewage Disposal System	The subject property is connected to the City of Firebaugh sewer system.		
Stormwater Runoff	Surface water runoff at the subject property appears to move toward unpaved areas of the subject property and gutters in the parking lots and along Q Street and Saipan Street.		

7.3 Exterior Observations

Table 5 provides details regarding the exterior observations noted during the site reconnaissance. Photographs 1 through 12 are shown below.

Table 5 Exterior Observations

Item	Observed	Photograph Number	Description
Hazardous Substances and Petroleum Products in Connection with Identified Uses	No	Not Applicable (N/A)	None observed
Aboveground or Underground Storage Tanks	No	N/A	None observed
Odors	No	N/A	None noted
Pools of Liquid	No	N/A	None observed
Drums	No	N/A	None observed
Hazardous Substances and Petroleum Products Containers Not in Connection with Identified Uses	No	N/A	None observed
Unidentified Substance Containers	No	N/A	None observed
Indications of PCBs	Yes	10	Pole-Mounted Transformers – Eastern and southern boundaries of the subject property (offsite)
			The transformers appeared to be in good condition and no indications of releases were observed in the vicinity of the transformers.
Heating/Cooling Systems	No	N/A	None observed, although presumed to be present in onsite buildings
Stains or Corrosion	No	N/A	None observed
Drains, Clarifiers, and Sumps	No	N/A	None observed
Degreasers/Parts Washers	No	N/A	None observed

Item	Observed	Photograph Number	Description
Pits, Ponds, and Lagoons	No	N/A	None observed
Stained Soil or Stained Pavement	No	N/A	None observed
Stressed Vegetation	No	N/A	None observed
Solid Waste/Debris	No	N/A	None observed
Wastewater	No	N/A	None observed
Wells	No	N/A	None observed
Septic Systems/Effluent Disposal Systems	No	N/A	None observed
Soil Piles	Yes	8, 10	Photograph 8 – A stockpile of woodchips was observed next to a shipping container in the southeastern corner of the subject property.
			Photograph 10 – A soil pile was observed next to a locked shipping container in the northern portion of the subject property. According to email correspondence from Roy Mendiola, Superintendent with Firebaugh-Las Deltas Unified School District, on June 14, 2024, the soil originated from onsite during repair of a broken pipe.
Fill Material	No	N/A	None observed

Shipping Containers (Photographs 7, 8, and 10). An empty shipping container was observed in the southeastern corner of the subject property. Two locked shipping containers were observed in the northern portion of the subject property next to portable classrooms. A locked shipping container was observed near the baseball field in the northeastern portion of the subject property, along the eastern boundary. Two locked shipping containers were observed in the southwestern portion of the subject property, next to bathrooms and classrooms. According to email correspondence from Roy Mendiola, Superintendent with Firebaugh-Las Deltas Unified School District, on June 14, 2024, the shipping containers contain physical education (PE) equipment.

Photographs 1-4



Photograph 1. View of the school gymnasium on the subject property, facing northeast.



Photograph 3. View of a playground area on the subject property, facing south.



Photograph 2. View of a parking lot and school buildings on the subject property, facing southeast.



Photograph 4. View of basketball courts and classrooms on the subject property, facing southwest.

Photographs 5-8



Photograph 5. View of a covered hallway on the subject property.



Photograph 7. View of portable classroom buildings and a locked shipping container on the subject property, facing north.



Photograph 6. View of classrooms on the subject property, facing northeast.



Photograph 8. View of a solar array, empty shipping container, pile of woodchips, and pole-mounted transformer in the southeastern portion of the subject property, facing north-northwest.

Photographs 9-12



Photograph 9. View of electrical equipment at a solar array on the subject property, facing northeast.



Photograph 11. View of typical eastern adjacent single-family residences, facing east-southeast.



Photograph 10. View of a soil pile, locked shipping container, and classrooms in the northern portion of the subject property, facing southwest.



Photograph 12. View of the southern adjacent Firebaugh-Las Deltas Unified School District Maintenance, Operations, and Transportation facility, facing south from Saipan Street.

8 Potential Vapor Migration

The database report and other resources were reviewed to identify nearby known or suspect contaminated sites that have the potential for contaminated vapor originating from the nearby sites to migrate beneath the subject property. Based on the ASTM E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, the following minimum search distances were initially used to determine if contaminated soil vapors from a nearby known or suspect contaminated site have the potential to be migrating beneath the subject property:

- 1/10 mile (528 feet) for petroleum hydrocarbons
- 1/3 mile (1,760 feet) for other COCs

Groundwater depth and flow direction are also utilized to determine risk of vapor migration. Groundwater in the vicinity of the subject property is reportedly present at approximately 10 and 17 feet bgs and flows to the southwest, northeast, and west (Section 4.1).

Online agency resources are reviewed to determine the extent of the contaminated soil or groundwater plume at known or suspect contaminated sites as specified below:

- Onsite or adjacent to the subject property,
- Within 100 feet, or
- Within the above referenced distances from the subject property and upgradient or crossgradient to the subject property.

Sections 8.1 and 8.2 list contaminated soil, soil vapor, and/or groundwater plumes of petroleum hydrocarbons (528 feet from the subject property) and other COCs (1,760 feet from the subject property). Per ASTM E2600-15, vapors associated with impacted soil or groundwater present within these distances have the potential to migrate beneath the subject property.

8.1 Petroleum Hydrocarbons

Known or Suspect Hydrocarbon Release	Distance (feet) and Direction to Plume	Vapor Intrusion Concern
Site within 528 Feet	Edge/Suspect Release Area	Within 30 Feet
Known – 1657/1666 Saipan Street, approx. 60 feet south	Approx. 90 feet south	No

8.2 Other COCs

Based on our review of the database report, there are no known or suspect sites impacted with other COCs within 1,760 feet of the subject property. Therefore, per ASTM E2600-15, as this distance exceeds the 100-foot distance considered the critical distance wherein such migration may pose a threat to the subject property, there are no potential threats to the subject property posed by the potential migration of other COC vapors from listed sites.

8.3 Vapor Intrusion Summary

Although contaminated soil, soil vapor, and/or groundwater plumes of petroleum hydrocarbons and other COCs were identified within the recommended search distances (per ASTM E2600-15) as shown above in Sections 8.1 and 8.2, contaminated soil, soil vapor, and/or groundwater plumes of petroleum hydrocarbons within 30 feet of the subject property and other COCs within 100 feet of the subject property were not identified during the completion of this Phase I ESA.

9 California Department of Toxic Substances Control Considerations

Rincon completed additional research and evaluation as part of this Phase I ESA to assist Firebaugh-Las Deltas Unified School District with DTSC information requirements per CCR Title 22 Section 69104(d) and CEC Sections 17210(g) and 17213.1(a)(1) through (4). Rincon performed additional research regarding the considerations listed in Table 6.

Table 6 DTSC Considerations

Potential Source	Evaluation
Agricultural Use	Based on our review of historical aerial photographs and topographic maps, and our site reconnaissance, the subject property was previously used for agricultural purposes (dry farming) in at least 1950 and is currently developed with a school since approximately 1956 (Sections 5.2 and 7). According to the DTSC, dry farming is not typically treated with pesticides (DTSC 2008). Therefore, the subject property uses would not have resulted in pesticide or arsenic impacts from agricultural use.
Debris or Stockpiles	During the site reconnaissance, debris was not noted on the subject property one stockpile of woodchips and one stockpile of soil generated from an onsite source were noted on the subject property (Section 7). However, debris and stockpiles were not noted during our review of historical aerial photographs (Section 5.2).
Fill Material	Based on our review of historical topographic maps, no major changes in the subject property topography or elevation were noted. However, the subject property appears to have been graded between 1937 and 1946 (Section 5.2). Additionally, according to the Geotechnical Investigation and Geohazards Study Report (RMA GeoScience, Inc. 2024), reworked, import, and native soils are present at the subject property. Reworked/import soils were encountered to a maximum depth of 2 feet bgs (RMA GeoScience, Inc. 2024; Section 3.3).
Electrical Transformers, Oil-Filled Electrical Equipment, or Hydraulic Systems	During the site reconnaissance, four pole-mounted electrical transformers were observed offsite, near the eastern and southern boundaries of the subject property; the transformers appeared to be in good condition and no indications of releases were observed in the vicinity of the transformers (Section 7). Electrical transformers, oil-filled electrical equipment, hydraulic systems, and other indications of PCBs were not observed at the subject property (Section 7).
Government Use or Ownership	Based on our review of the environmental database report and historical information (aerial photographs, topographic maps, and city directories), evidence of government use or ownership was not found (Sections 4.2 and 5.2).
Grading Activities	Based on our review of historical aerial photographs and topographic maps, evidence of significant grading activities was not observed. However, the subject property appears to have been graded between 1937 and 1946 (Section 5.2).

Potential Source	Evaluation
Hydrogen Sulfide Methane	Facilities with the potential to generate hydrogen sulfide (e.g., petroleum extraction and refining, pulp/paper manufacturing, waste disposal facilities, landfills, and wastewater) were not noted in the environmental database report (Section 4.2). In addition, according to the CalGEM Online Mapping System, the subject property is not located within or adjacent to an oil or gas field (Section 4.3).
	According to the United States Fish and Wildlife National Wetlands Inventory online database, the subject property is not located in a wetland habitat (United States Fish and Wildlife Service 2024). The nearest wetland habitat is located approximately 115 feet north of the subject property. Based on this information, methane and hydrogen sulfide are not likely a concern at the subject property.
Illegal Drug Manufacturing	Based on our review of the environmental database report, the subject property and adjacent properties are not listed on the clandestine drug laboratory databases (Section 4.2).
Lead-Based Paint Application	Based on our review of historical aerial photographs and topographic maps, the subject property has been developed with some of the existing school buildings since approximately 1956, with additional buildings constructed by 1960, 1981, 1998, 2006, 2009, 2016, and 2020 (Section 5.2). The Fresno EOC building was constructed in 1994 and moved to the site in 2006-2007 (Section 3.3). Based on this information, lead-based paint is a potential concern at the subject property, with the exception of the former Fresno EOC building and other school buildings constructed on or after January 1, 1993.
Metals and Metalloids	Based on our review of historical sources (aerial photographs, topographic maps, and city directories), the subject property was previously used for agricultural purposes (dry farming) in at least 1950 and is currently developed with a school since approximately 1956 (Section 5.2). According to the DTSC, dry farming is not typically treated with pesticides (DTSC 2008). Therefore, the subject property uses would not have resulted in metals or metalloid impacts, including arsenic from agricultural use.
Mines	Based on a review of the environmental database report and historical topographic maps, mines are not located on or adjacent to the subject property (Sections 4.2 and 5.2).
Naturally Occurring Asbestos	Based on the California Division of States Mines and Geology map titled A General Location Guide for Ultramafic Roads in California – Areas More Likely to Contain Naturally-Occurring Asbestos dated August 2000, the subject property is not located within 10 miles of an area that is likely to contain naturally occurring asbestos (California Division of Mines and Geology 2000). The nearest area that is likely to contain naturally occurring asbestos is located approximately 30 miles away; therefore, deposition of sediment generated from naturally occurring asbestos is not a concern at the subject property.
Naturally Occurring Hazardous Materials	Based on a review of the CalGEM Online Mapping System, the subject property is located approximately 3.3 miles southwest of the nearest oil and gas field and the nearest active oil/gas well is located approximately 5.3 miles east-northeast of the subject property (Section 4.3).

Potential Source	Evaluation
Petroleum Deposits or Use	A review of the CalGEM Online Mapping System indicates that no oil or gas wells are located on the subject property or adjacent properties, no active oil or gas wells are located within 1 mile of the subject property, and the subject property is not located within 1 mile of an oil or gas field (Section 4.3). Based on a review of the environmental database report and historical sources (aerial photographs, topographic maps, and city directories), the subject property has not been used for purposes of the manufacture, storage, or sale of petroleum products (Sections 4.2 and 5.2).
Radon	The USEPA Map of Radon Zones depicts the subject property within Radon Zone 2 (USEPA 1993). Zone 2 includes areas with predicted average indoor radon screening of between 2 and 4 picocuries per liter (pCi/L), which meets or is below the USEPA screening level of 4 pCi/L.
Railroad Use or Easements	Based on a review of historical sources (aerial photographs and topographic maps), railroads and railroad easements are not currently and were not historically present on the subject property (Section 5.2).
Residential Use	Based on a review of historical sources (aerial photographs, topographic maps, and city directories), the subject property was previously undeveloped/vacant land from at least 1923 to 1947, used for agricultural purposes (dry farming) in at least 1950, is currently developed with a school since approximately 1956, and does not appear to have been developed for residential use (Section 5.2).
Surface Drainage Pathways	Based on the site reconnaissance, surface water appears to drain directly into the unpaved surfaces on the subject property or into gutters in the parking lots and along Q Street and Saipan Street.
Termiticide Application	Based on our review of historical aerial photographs and topographic maps, the subject property has been developed with some of the existing school buildings since approximately 1956, with additional buildings constructed by 1960, 1981, 1998, 2006, 2009, 2016, and 2020 (Section 5.2). The Fresno EOC building was constructed in 1994 and moved to the site in 2006-2007 (Section 3.3). Based on this information, organochlorine pesticides (OCPs) that may have been used as termiticides are a potential concern at the subject property, with the exception of the former Fresno EOC building and other school buildings constructed on or after January 1, 1989.
Utility Easements	Information regarding utility easements was requested from the property owner. A response has not been received as of the date of this report. However, since structures are present onsite and the City of Firebaugh provides potable/irrigation water and sewer services to the subject property, utility easements are anticipated to be present on the subject property.
Munitions and Explosives of Concern	Based on a review of the environmental database report, the subject property is not located within the boundaries of a Formerly Used Defense Site or a DoD site; therefore, munitions and explosives of concern are not a concern at the subject property (Section 4.2).

10 Evaluation

Rincon has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 for the Hazel M. Bailey Primary School Classroom Expansion Project located at 1691 Q Street in Firebaugh, California. Any exceptions to, or deletions from, this practice are described in Section 2.5 of this report.

10.1 Significant Data Gaps

Deviations that could result in data gaps were identified during the preparation of this report:

The interior of onsite buildings were not observed during the site reconnaissance.

These data gaps limit our ability to render an opinion regarding whether conditions exist that are indicative of RECs.

10.2 Findings, Opinions, Conclusions, and Recommendations

This assessment has not revealed evidence of RECs, historical RECs, or controlled RECs in connection with the subject property; however, has revealed Notable Findings as detailed in Table 7.

Table 7 Findings, Opinions, Conclusions, and Recommendations

No.	Finding	Opinion	Conclusion	Recommendation
1	Potential asbestos- containing materials (ACM), lead-based paint (LBP), and termiticides at the subject property	Based on the age of the onsite structures (constructed as early as approximately 1956, ACM may be present in building materials and LBP may be present in building materials at the subject property, excluding the former Fresno EOC building which was constructed in 1994 and school buildings constructed on or after January 1, 1993. Additionally, OCPs may have been used as termiticides in soil surrounding the buildings at the subject property, excluding the former Fresno EOC building, which was constructed in 1994, and school buildings constructed on or after January 1, 1989.	Notable Finding	ACM and LBP surveys for structures proposed for demolition or renovation LBP surveys for buildings constructed prior to January 1, 1993 within proposed construction areas that would involve soil disturbance OR perform a subsurface investigation for impacts from LBP in accordance with the DTSC's Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC 2006) Obtain documentation that termiticides were not applied to soil at the subject property OR perform a subsurface investigation for impacts from termiticides for structures with wooden components built prior to January 1, 1989 in accordance with the DTSC's Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC 2006)

11 References

California Department of Conservation, Division of Mines and Geology, 2000. "A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos." September 2000. https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr_2000-019.pdf (accessed April 16, 2024). California Department of Conservation, Geologic Energy Management Division (CalGEM). 2024. "Well Finder." https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx (accessed April 10, 2024). California Department of Toxic Substances Control (DTSC). 2024. "EnviroStor." https://www.envirostor.dtsc.ca.gov/public/ (accessed April 10, 2024). . 2008. Interim Guidance for Sampling Agricultural Properties (Third Revision). August 7, 2008. https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/09/Ag-Guidance-Rev-3-August-7-2008-2.pdf (accessed April 17, 2024). . 2006. Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers. https://dtsc.ca.gov/wpcontent/uploads/sites/31/2024/04/Guidance_Lead_Contamination_050118_New_links.pdf (accessed June 18, 2024). California Environmental Protection Agency (CalEPA). 2024. "CalEPA Regulated Site Portal." https://siteportal.calepa.ca.gov/nsite/ (accessed April 10, 2024). California State Water Resources Control Board (SWRCB). 2024a. "GeoTracker." https://geotracker.waterboards.ca.gov/ (accessed April 10, 2024). . 2024b. "California PFAS Investigations." https://www.waterboards.ca.gov/pfas/ (accessed April 10, 2024). _____. 2024c. "GeoTracker PFAS Map." https://geotracker.waterboards.ca.gov/map/pfas map (accessed April 10, 2024). Environmental Data Resources, Inc. (EDR). 2024a. Aerial Photographs. April 10, 2024. . 2024b. City Directory Report. April 15, 2024. . 2024c. Fire Insurance Map Report. April 10, 2024. . 2024d. Radius Map Report. April 10, 2024. _____. 2024e. Topographic Maps. April 10, 2024. Fresno County. 2024. "Fresno County Citizen Portal Serving Environmental Health and Public Works." https://permitportal.fresnocountyca.gov/citizenportal/app/landing (accessed April 12, 2024). . 2024. "Department of Public Health, Environmental Health Document Portal." https://www.fresnohealthinspections.org/ (accessed April 11, 2024).

- Jennings, C.W., Gutierrez, C., Bryant, W., Saucedo, G., and Wills, C. 2010. *Geologic Map of California*. California Geological Survey. https://maps.conservation.ca.gov/cgs/gmc/ (accessed April 10, 2024).
- United States Environmental Protection Agency (USEPA). 2024. "Drinking Water Health Advisories for PFOA and PFOS." https://www.epa.gov/sdwa/drinking-water-health-advisories-pfoa-and-pfos (accessed April 10, 2024).
- _____. 1993. "Map of Radon Zones." https://www.epa.gov/radon/epa-map-radon-zones (accessed April 16, 2024).
- United States Department of Transportation (USDOT). 2024. "National Pipeline Mapping System (NPMS) Public Map Viewer." Pipeline and Hazardous Materials Safety Administration (PHMSA). https://www.npms.phmsa.dot.gov/PublicViewer/ (accessed April 10, 2024).
- United States Fish and Wildlife Service. 2024. "National Wetlands Inventory," Online Wetlands Mapper. https://www.fws.gov/wetlands/data/Mapper.html (accessed April 16, 2024).

12 Signatures of Environmental Professionals

The qualified environmental professionals that are responsible for preparing the report include Ryan Thacher, Lisa Bestard, and Savanna Vrevich. Their qualifications are summarized in the following section.

"We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. 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."

Ryan' nacho	July 23, 2024
Signature	Date
Ryan Thacher, PhD, PE	Director of Site Assessment and Remediation
Name	Title
Clisa Bestand	July 23, 2024
Signature	Date
Lisa Bestard	Supervising Environmental Scientist
Name	Title
Savanna Vrenich	July 23, 2024
Signature	Date
Savanna Vrevich	Environmental Scientist
Name	Title

1

13 Qualifications of Environmental Consultants

The environmental consultants responsible for conducting this Phase I ESA and preparing the report include Ryan Thacher, Lisa Bestard, Savanna Vrevich, and Courtney Montgomery. Their qualifications are summarized below.

Environmental Professional Qualifications	X2.1.1 (2) (i) - Professional Engineer or Professional Geologist License or Registration, and 3 years of full-time relevant experience	X2.1.1 (2) (ii) - Licensed or certified by the Federal Government, State, Tribe, or U.S. Territory to perform environmental inquiries	X2.1.1 (2) (iii) – Baccalaureate or Higher Degree from and accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience	X2.1.1 (2) (iii) – Equivalent of 10 years of full- time relevant experience
Ryan Thacher	PE		PhD Environmental Engineering	13 years
Lisa Bestard			BA Biology	22 years
Savanna Vrevich			BS Environmental Studies	9 years
Courtney Montgomery			MA Applied Anthropology	8 years

Dr. Ryan Thacher, PE, is a Director of Site Assessment and Remediation with Rincon Consultants. He holds a Bachelor of Science degree in Chemical Engineering from the University of California, Santa Barbara and a Doctorate degree in Environmental Engineering from the University of Southern California. He has 13 years of experience conducting research related to chemical contaminant fate and transport in soil and groundwater and developing and implementing site assessments and remediation for contaminated sites in California, including the preparation of Phase I and Phase II Environmental Site Assessments. Dr. Thacher is a Professional Engineer (#87757) with the State of California.

Lisa Bestard is a Supervising Environmental Scientist with Rincon Consultants. She holds a Bachelor of Arts degree in Biology from University of San Diego, San Diego, California. Ms. Bestard has extensive experience performing Due Diligence Phase I and Phase II ESAs and various remediation projects and providing soil and waste management services. She has 22 years of experience conducting research, assessment, and remediation projects in California. Ms. Bestard's responsibilities at Rincon include implementation of site assessments and development of site remediation programs within the Environmental and Earth Systems Group.

Savanna Vrevich is an Environmental Scientist with Rincon Consultants. She holds a Bachelor of Science degree in Environmental Studies with an outside concentration in Ecology, Evolution, and Marine Biology from the University of California, Santa Barbara. Ms. Vrevich has experience in working on large-scale, multi-site projects for developers, banks, regulatory agencies, and other public and private clients. Ms. Vrevich's responsibilities at Rincon include implementation of Phase I Environmental Site Assessments, Caltrans Initial Site Assessments, and preparation of other environmental reports for a variety of commercial, rural, and industrial properties.

Courtney Montgomery, MA is an Archaeologist and Project Manager with Rincon Consultants. She holds a Master of Arts degree in Applied Anthropology from Humboldt State University and a Bachelor of Arts degree in Anthropology from California State University, Fresno. Ms. Montgomery has eight years of professional experience as an archaeologist within the state of California. Her experience includes archaeological surveys, excavation, construction monitoring, Native American outreach efforts, DPR 523 forms, and formal report writing. She has experience coordinating with clients, lead agencies, and Native American tribal representatives to ensure project compliance with local, state, and federal regulations and successful project completion.

Appendix A

Interview and Title Documentation



User Questionnaire

Rir	ncon Project Number:			
Sit	e Name and Full Address:			
Lia mu	To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.			
	e respectfully request that you fill out this form and email it to Savanna Vrevich at revich@RinconConsultants.com within one week from the date of this transmittal.			
Pr	oject Description			
1.	Why is the Phase I ESA required or being performed?			
2.	What type of property transaction is planned? (i.e. sale, purchase, exchange)			
3.	What is the entire site address?			
4.	What is the Assessor's Parcel Number(s)?			
5.	Are any considerations beyond the requirements of Practice E1527 to be considered? (i.e. lien search, asbestos & lead based paint, radon)			



KII	Rincon Project Number:	
Sit	e Name and Full Address:	
6.	Identify all parties who will rely on the Phase I report.	
7.	Identify the Site Manager/Contact and how the contact can be reached.	
8.	Identify the Site Owner and how the owner can be reached.	
9.	Do you have copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning any other knowledge or experience with the property that may be pertinent to the environmental professional (i.e. lien search, title report, chain of title, previous Ph land II ESAs, Environmental Impact Studies)?	

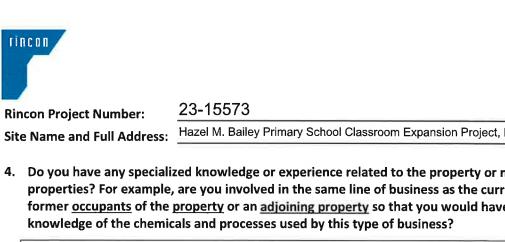


Rincon Project Number:

23-15573

Site Name and Full Address: Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA

Su	ubject Property Information		
	Did a search of recorded land title records (or judicial records, where appropriate) identify any environmental liens filed or recorded against the property?		
	Please mark the box with the most appropriate response: I have not reviewed the records and do not know if there are any filed or recorded environmental liens. I have reviewed the records, and No, there aren't any filed or recorded environmental liens. I have reviewed the records, and Yes, there are environmental liens. Explain:		
2.	Did a search of recorded land title records (or judicial records, where appropriate) identify any activity and land use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?		
	Please mark the box with the most appropriate response: I have not reviewed the records and do not know if there are any filed/recorded AULs or any AULs in place at the site. I have reviewed the records, and No, there aren't any filed/recorded AULs or any AULs in place at the site. I have reviewed the records, and Yes, there are AULs filed, recorded, and/or in place at the site. Explain:		
3.	Does the Title Report provide any information pertaining to environmental cleanup liens or activity and use limitations (AULs) for the subject property?		
	Please mark the box with the most appropriate response: I have not reviewed the Title Report and do not know if it provides environmental cleanup liens or AULs information. I have reviewed the Title Report, and No, it does not provide environmental cleanup liens or AULs information I have reviewed the Title Report, and Yes, it does provide environmental cleanup liens or AULs information. Explain:		



Sit	e Name and Full Address: Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA
4.	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?
	Please mark the box with the most appropriate response: No, I do not have any specialized knowledge and/or experience related to the property or nearby properties.
	Yes, I <u>do</u> have specialized knowledge and/or experience related to the property or nearby properties. Explain:
5.	As the user of this ESA, based on your knowledge and experience related to the property, are you aware of any information pertaining to a reduction in value for the subject property relative to any known environmental issues?
	Please mark the box with the most appropriate response:
	No, I do not have any information about a reduction in property value relative to environmental issues.
	Yes, I <u>do</u> have information about a reduction in property value relative to environmental issues. Explain:
6.	Does the purchase price being paid for this property reasonably reflect the fair market value of the property?
	Please mark the box with the most appropriate response:
	Yes, I do believe the purchase price being paid for this property reasonably reflects the fair market value of the property. Skip to question #7.
	No, I do not believe the purchase price being paid for this property reasonably reflects the fair market value of the property. Proceed to question #6a.
	 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? (40 CFR 312.29)
	Please mark the box with the most appropriate response
	No, I have not considered the idea that known or believed contamination at the site has caused the lower purchase price.
	Yes, I have considered the idea that known or believed contamination at the site has caused the lower purchase price. Explain:



8.

Rincon Project Number:

23-15573

Site Name and Full Address: Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA

7. 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:

Ple	Please mark the box with the most appropriate response:				
a.	Do you know the past uses of the property? I do not know. I do know. Explain:				
b.	Do you know of specific chemicals are present or once were present at the property? I do not know. I do know. Explain:				
c.	Do you know of any spills or other chemical releases that have taken place at the property? I do not know. I do know. Explain:				
d.	Do you know of any environmental cleanups have taken place at the property? I do not know. I do know. Explain:				
Ba:	sed on your knowledge and experience related to the property are there any obvious licators that point to the presence or likely presence of releases at the property?				
Ple	Passe mark the box with the most appropriate response: No, I do not know and/or do not have any experience with any obvious indicators that point to the presence or likely presence of contamination at the property. Yes, I do know of and/or do have experience with obvious indicators that point to the presence or likely presence of contamination at the property. Explain:				



23-15573 **Rincon Project Number:** Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA Site Name and Full Address: 9. Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products, in, on, or from the site? Please mark the box with the most appropriate response: No. I am not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products, in, on, or from the site. Yes, I am aware of pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the site. Explain: 10. Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the site? Please mark the box with the most appropriate response: No, I am not aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the site. Yes, I am aware of pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the site. Explain: 11. Are you aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? Please mark the box with the most appropriate response: No, I am not aware of any notice from any government entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.. Yes, I am aware of a notice, or notices, from a government entity (or multiple government entities) regarding a possible violation of environmental laws or possible liability relating

to hazardous substances or petroleum products. Explain:



Rincon Project Number:	23-15573
Site Name and Full Address:	Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA
This questionnaire was comp	leted by (please print)
Name	aritza Rodriguez
Title Pro	ject Manager
Firm	7A2 1
Street Address	16 Morris Kyle Drive
City, State, Zip Code	Firebaugh CA 93622
	57-659-1476
Fax Number	559-659-2355
	etc.)?(vn) ~
Copies of the completed que	stionnaire should be emailed (preferably) or mailed to:
Rincon Consultants, Inc.	
Attention: Environmental Site	
2215 Faraday Avenue, Suite A	4
Carlsbad, CA 92008 Email: SVrevich@RinconCons	ultants com
Email: Syfevicing Minconcons	urtaites.com
	he best of the preparer's knowledge the above statements and facts ne best of the preparer's knowledge no material facts have been
Signature W	Date 7.6.24



Property Owner Interview Questionnaire

Rin	con Project Number:	23-15573	,
Site Name and Full Address:		Hazel M. Bailey Primary	School Classroom Expansion Project, Firebaugh, CA
rep this	resentative of the current	property owner. We re	nt property owner or a designated spectfully request that you fill out and return ants.com within one week from the date of
1.	Was the subject property	or any adjoining prop	erty ever used as:
Ple	an airport a fire training area a gasoline or other fu a motor vehicle repai a commercial printing a dry cleaners a photo developing la a metal plating facilit a farm case check all that apply ab	r facility g facility aboratory y	a Department of Defense facility or training area a junkyard or landfill a waste treatment, storage, disposal, processing or recycling facility a machine shop a manufacturing facility an oil production facility (including oil wells) any other industrial use
2.		all businesses/compai	ject property and those surrounding your nies located on property.
	Please check all that appl Commercial (retail, o Residential (single far Industrial (manufactur processing) Other- Please Describ	y: ffices, etc.) mily or apartments) uring, warehousing,	Please include a brief description of current operation: Primary School
	2b. Current Use of North	ern Adjoining Properti	es:
	Please check all that appl Commercial (retail, o Residential (single far Industrial (manufactur processing) Other- Please Descrif	ffices, etc.) mily or apartments) uring, warehousing,	Please include a brief description of current operation:



Rincon Project Number:		23-15573		
Site Name and Full Address:		Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA		
	2c. Current Use of Easter	n Adjoining Properties	:	
	Please check all that apply Commercial (retail, of Residential (single far Industrial (manufactu processing) Other- Please Describ	fices, etc.) nily or apartments) ring, warehousing,	Please include a brief description of current operation:	
	2d. Current Use of South	ern Adjoining Properti	es:	
	Please check all that apply Commercial (retail, of Residential (single far Industrial (manufactu processing)	fices, etc.) nily or apartments) ring, warehousing,	Please include a brief description of current operation:	
	Other- Please Describ	e		
	2e. Current Use of Weste			
	Please check all that apply Commercial (retail, of Residential (single far Industrial (manufactu processing) Other- Please Describ	fices, etc.) nily or apartments) ring, warehousing,	Please include a brief description of current operation:	
3.	Include property ownership and dates of operation if known.			
	Please check all that apply Commercial (retail, of Residential (single far Industrial (manufactur processing) Other- Please Describ	/: fices, etc.) nily or apartments) ring, warehousing,	Please include a brief description of current operation:	
	3b. Previous Use of Nortl	nern Adjoining Propert	ies:	
1	Please check all that apply Commercial (retail, of Residential (single far Industrial (manufactu processing) Other- Please Describ	fices, etc.) nily or apartments) ring, warehousing,	Please include a brief description of current operation:	



Rincon Project Number: 2		23-15573	23-15573		
Site	e Name and Full Address:	Li Lia B. I. Division Calculated Character Francisco Project Firebough CA			
9. To the best of your knowledge, has your facility previously or does your facility curre or use any of the following in individual containers larger than 5 gallons in volume o gallons in the aggregate? (if Yes or Unknown, include how many, type, and size)			er than 5 gallons in volume or 50	į	
	Damaged or discarde automotive or indust batteries			att.	
	Paints				
	Oils or solvents				
	Motor vehicle fleet				
	Pesticides or herbicid	les			
	Other chemicals or hazardous substance	s			
10	Please indicate any wast	es generated	at the facility:		
	Hazardous Waste	Quar	ntity	Disposal Method	
				a Av	
11.	11. Are there currently or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon) or sacks of chemicals located on the property or at the facility?				
	Yes If Yes of No Unknown	or Unknown,	please describe:	# * # # # # # # # # # # # # # # # # # #	
12		ig been brou	ght onto the prop	ave there been previously, any erty that originated from a	
	Yes If Yes o	r Unknown,	please describe:		



Rir	ncon Project Number:	23-15573	
	e Name and Full Address:	Hazel M. Bailey Primary	/ School Classroom Expansion Project, Firebaugh, CA
J. C.			
	Please check all that appl		Please include a brief description of current
	Commercial (retail, o		operation:
	Residential (single far		
	Industrial (manufactu processing)	uring, warenousing,	
	Other- Please Describ	be	
	3d. Previous Use of Sout		
	Please check all that appl	·	Please include a brief description of current
	Commercial (retail, o		operation:
	Residential (single fa		
	Industrial (manufactu processing)	uring, warenousing,	
	Other- Please Describ	he	
	3e. Previous Use of Wes		ties:
	Please check all that appl		Please include a brief description of current
	Commercial (retail, o	=	operation:
	Residential (single fa	· · · · · ·	'
	Industrial (manufactu		
	processing)		
	Other- Please Descril	be	
4.	Who is the current owner of the property? Fire baugh-Las Delfas USD		
5.			
6.	6. What is the age of the on-site facility?		
7.	Who is the previous owner of the property?		
8.	Please indicate the prop	erty's current:	
	Electrical service provide		€
	Natural Gas service provi	ider Pb+	E
	Water service provider	G:	m of Finebaugh.
	Sewer service provider	Ci	ty of hir baugh



Rincon Project Number:	23-15573		
Site Name and Full Address:	Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA		
13. Are there currently or to ponds or lagoons located disposal?	the best of your knowledge have there been previously, any pits, on the property in connection with waste treatment or waste		
Yes If Yes o	r Unknown, please describe:		
	14. Are there currently or to the best of your knowledge have there been previously, any sumps, clarifiers, or solvent degreasers on the property?		
Yes If Yes o	or Unknown, please describe:		
15. Are there currently or to soil on the property?	the best of your knowledge have there been previously, any stained		
Yes If Yes of No Unknown	or Unknown, please describe:		
16. Are there currently or to the best of your knowledge have there been previously, any storage tanks (above or below ground) located on the property?			
Yes If Yes of No Unknown	or Unknown, please describe:		
pipes, fill pipes, or acces	the best of your knowledge have there been previously, any vent s ways (etc.) indicating a fill pipe protruding from the ground on the any structure located on the property?		
Yes If Yes of No Unknown	or Unknown, please describe:		
been identified in the w	by a private well or non-public water system, have contaminants ell or system that exceed guidelines applicable to the water system or nated as contaminated by any government agency?		
Yes If Yes of No Unknown	or Unknown, please describe:		



Rincon Project Number:	23-15573
Site Name and Full Address:	Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA
	the best of your knowledge have there been previously, any flooring, within the facility that are stained by substances other than water, or
Yes If Yes of No Unknown	or Unknown, please describe:
	rledge has your facility previously or does your facility currently, or adjacent to the property other than storm water into a sanitary
Yes If Yes of No Unknown	or Unknown, please describe:
	g ever been dumped above grade, buried and/or burned on the all that apply and describe if possible)
Hazardous substance	S
Petroleum products	
Unidentified waste materials	
Tires	2
Automotive or industrial batteries	
Other waste material (please describe)	S
	the best of your knowledge have there been previously, a rany hydraulic equipment on the property?
Yes If Yes o	r Unknown, please describe:
23. Are there currently or to indicating the presence of	the best of your knowledge have there been previously any records of PCBs?
Yes If Yes o	r Unknown, please describe:



Rincon Project Number:	23-15573
Site Name and Full Address:	Hazel M. Bailey Primary School Classroom Expansion Project, Firebaugh, CA
30. Are there any site-specif	ic geotechnical or geologic reports available for the subject property?
Yes If Yes of No A G	or Unknown, please describe: seo technical soils inushigation outs has been conducted.
31. Is there a Title Report av	ailable for the subject property?
Yes If Yes of No Unknown	or Unknown, please describe:
This questionnaire was comp	
Name	navitra Rodrijus
Title	Project manager
Firm	THAT
Street Address	976 Mam> Kyle Drive
City, State, Zip Code	Finbaugh (A 93622
Phone Number	5 5 9 - 6 5 9 - 14 7 6
Fax Number	554 - 659 - 23 8 5
What is the Preparer's relation	onship to the property (i.e., owner, occupant, property manager, , etc.)?
	estionnaire should be emailed (preferably) or mailed to:
Rincon Consultants, Inc.	
Attention: Environmental Sit	
2215 Faraday Avenue, Suite A Carlsbad, CA 92008	4
Email: SVrevich@RinconCons	sultants.com
Preparer represents that to t	the best of the preparer's knowledge the above statements and facts he best of the preparer's knowledge no material facts have been
Signature	Date 7-8-24



Zincon Project Numbe	r. 23-15573
Site Name and Full Ad	
	y or to the best of your knowledge have there been previously any records sence of pesticides or herbicides?
Yes	f Yes or Unknown, please describe:
No.	
Unknown	
property or govern	nowledge of environmental liens that may have been recorded against the mental notification relating to past or recurrent violations of ws with respect to the property or any facility located on the property?
Yes I	f Yes or Unknown, please describe:
No No	
Unknown	
controls, deed rest	nowledge of activity and use limitations (AULs) such as engineering trictions, land use restrictions, or institutional controls that may have been he property? If Yes or Unknown, please describe:
Unknown	
products, or environthe property?	ormed of the past or current existence of hazardous substances, petroleum onmental violations with respect to the property or any facility located on If Yes or Unknown, please describe:
28. Do you have any k	nowledge of any environmental site assessments of the property or facility?
Yes I No Unknown	f Yes or Unknown, please describe:
concerning a relea	ny past, threatened, or pending lawsuits or administrative proceedings se of any hazardous substances or petroleum products involving the wner or occupant of the property?
Yes I	f Yes or Unknown, please describe:



May 17, 2024 Revised June 28, 2024 Project No. 07-240145-0

Firebaugh-Las Deltas Unified School District

1734 Saipan Avenue Firebaugh, CA 93622

Care of: Ms. Rachel Knod, Gonzales Architects

Subject: Geotechnical Investigation and Geohazards Study Report

Proposed PS/TK/K Classroom Buildings at Bailey Elementary School

1691 Q Street

Firebaugh, CA 93622

Dear Ms. Knod:

In accordance with your request, we have performed a geotechnical investigation and geohazards study for the subject project. This work was performed in accordance with Section 1803*A.6* of the 2022 California Building Code (CBC). The results of our geotechnical investigation and geohazards study are presented in the accompanying report, which includes a description of site conditions and potential geologic hazards, results of our field investigation and laboratory testing, conclusions, and recommendations.

We appreciate this opportunity to be of service to you. If you have any questions regarding this report, please do not hesitate to contact us at your convenience.

Respectfully submitted,

RMA GeoScience, Inc.

Megan J. Stewart, GIT

Staff Geologist

Josue Montes, PE|GE

Rul, Mone

Principal Geotechnical Engineer

GE 2904

Mark A. Swiatek, PG | CEG

President EG 1781

Distribution: Addressee (1 Original)

Ms. Rachel Knod, Gonzales Architects. (3 Originals and a pdf copy to

rachelk@gonzales-architecture.com)



GEOTECHNICAL INVESTIGATION AND GEOHAZARDS STUDY REPORT PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL 1691 Q STREET FIREBAUGH, CALIFORNIA 93622

for

Firebaugh-Las Deltas Unified School District 1734 Saipan Avenue Firebaugh, California 93622

> May 17, 2024 Revised June 28, 2024

Project No. 07-240145-0



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Figure 2	USGS Contour Map
Figure 3	Regional Geologic Map
Figure 4a	Fault Activity Map
Figure 4h	Legend for Fault Activity N

Figure 4b Legend for Fault Activity Map

Figure 5 Field Exploration Map Figure 6 Cross Section A to A'

APPENDICES

Appendix A	Field Investigation
Appendix B	Laboratory Tests

Appendix C Liquefaction/Seismic Settlement Analysis

Appendix D References



1.00 Introduction

1.01 Purpose

A geotechnical investigation and geohazards study has been completed for the Proposed PS/TK/K Classroom Buildings at Bailey Elementary School, which is located at 1691 Q Street in Firebaugh, California. The purpose of the investigation was to summarize geotechnical and geologic conditions at the site, to assess their potential impact on the proposed development, and to develop geotechnical engineering design parameters for the project.

1.02 Scope of the Study

The general scope of this study included the following:

- Review of published and unpublished geologic, seismic, groundwater and geotechnical literature. This
 included reviewing the following geotechnical reports:
- Examination of aerial photographs and topographic maps.
- Contacting of Underground Service Alert to locate onsite utility lines.
- Logging, sampling, and backfilling of ten exploratory borings drilled with a SIMCO 2800 drill rig: one to an approximate depth of 50 feet and nine to an approximate depth of 21 feet.
- Laboratory testing of representative soil samples.
- Geotechnical evaluation of the compiled data.
- Preparation of this report presenting our findings and conclusions.

As part of the geohazards study associated with our geotechnical investigation, our scope of services included addressing applicable items in California Geological Survey – Note 48, Checklist for the review of engineering Geology and Seismology Reports for California Public School, Hospitals, and Essential Service Buildings, November 2022.

Our scope of work did not include a preliminary site assessment for the potential of hazardous materials onsite.

1.03 Site Location and Description

The project site consists of the central portion of the recess area, generally east of the existing buildings on the Bailey Elementary School campus, in Firebaugh, California. The location of the site relative to nearby streets is indicated on Figure 1, Site Vicinity Map. Its geographic position is 36.8539° north latitude and 120.4459° west longitude. Aerial photos indicate that the area with proposed improvements contained the recess area and several trees from at least 1998 and until recently, with nearby construction and improvements occurring around the project site over the same duration. The existing ground surface is relatively flat and the elevation above mean sea level at the project site is approximately 145 feet according to the USGS Firebaugh 7.5 Minute Quadrangle (see Figure 2).





Photo taken near the northeast corner of the site (near B-1), facing south-southwest. Taken on April 18, 2024.

1.04 Planned Improvements

Based on our review of the information provided, which included a conceptual site plan prepared by Gonzalez Architects, we understand that the project will consist of constructing 8 classroom buildings with a total footprint area for all buildings being 46,000 square-feet. It is anticipated that the structures will be wood-framed with supporting structural steel, have concrete slab-on-grade floors, and have shallow reinforced-concrete foundations. Maximum wall and column loads (dead plus live, not including wind or seismic loads) are anticipated to be less than 2.0 kips per foot and 50 kips, respectively, per Brooks Ransom Structural Engineers. Appurtenant improvements are anticipated to be shade structures, various underground utilities, new concrete flatwork, and landscaping. No grading plan was available at the time of the preparation this report.

1.05 Investigation Methods

Our investigation consisted of office research, review of the compiled data, and preparation of this report. It has been performed in a manner consistent with generally accepted engineering and geologic principles and practices



and has incorporated applicable requirements of California Building Code. Definitions of technical terms and symbols used in this report include those of the ASTM International, the California Building Code, and commonly used geologic nomenclature. Technical supporting data are presented in the attached appendices. Appendix A presents a description of the methods and equipment used in performing the field exploration and logs of our subsurface exploration. Appendix B presents a description of our laboratory testing and the test results. Results of our liquefaction and seismic settlement analysis are provided in Appendix C. References are presented in Appendix D.

2.00 FINDINGS

2.01 Geologic Setting

The subject site is located in the west-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).

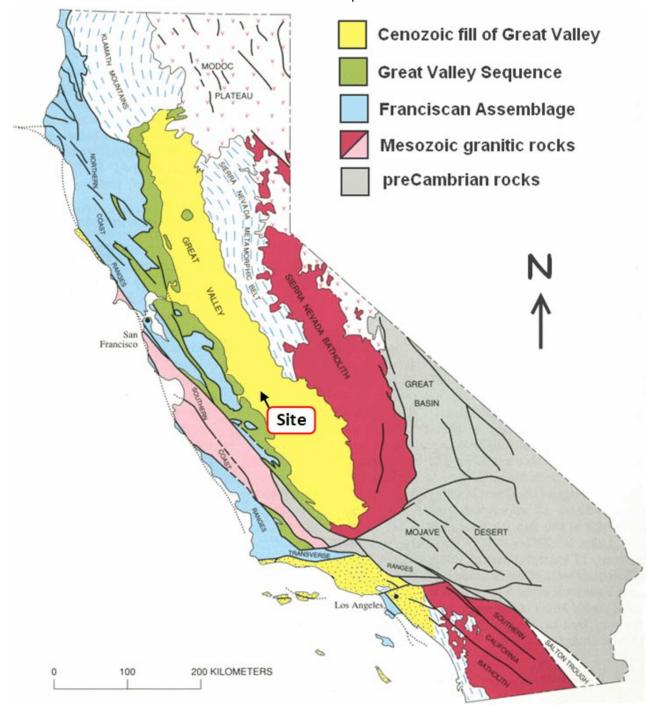
The Franciscan Assemblage, made up of deformed and high pressure and low temperature metamorphosed mafic and ultramafic rocks, was formed around the Late Jurassic through the Miocene (160 to about 20 million years ago) by the offscraping of rocks from a subducting plate dipping to the east (Wakabayashi, 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 most recent Ice Age) to the present, glaciers have been carving out many parts of the Sierras. The current uplift of the Sierra Nevada is 1 to 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 to 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). A generalized

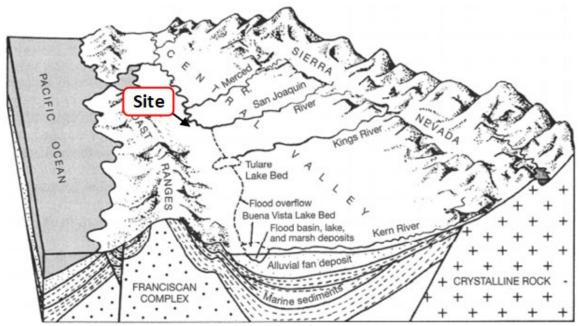


geologic map for the State of California is shown below and Figure 3 illustrates the geologic setting within the regional area of the project site. As shown on Figure 3, the project site is situated on Quaternary deposits of alluvium that are estimated to be several thousand feet deep.



Geologic map showing the locations of Cenozoic alluvium/fill (yellow) overlying the Great Valley Sequence (green), the Franciscan Assemblage (blue), and the Sierra Nevada Batholith (red). Modified from: Irwin (1990).





Geologic block diagram of California. From: Harden (2004). Not to scale.

2.02 Earth Materials

The subsurface exploration performed for this project indicated the presence of reworked, import, and native soils. The reworked soils consisted of fine sandy silt with clay in Boring B-4 from the surface to a depth of approximately 1.5 feet and fine sandy clay in Boring B-10 which extended from the surface to a depth of 2 feet. The import soil consisted of fine to medium sand in Boring B-8 from which extended from below asphalt and aggregate base to a depth of 2 feet. The native soil profile consisted of fat/high plasticity silty clay and lean/low plasticity silty clay underlain by sandy clay, clayey sand, sandy silt, or silty sand. All of these soil horizons were further underlain by poorly graded sand to the maximum depth explored of approximately 50 feet. These layers varied in thickness and appeared to be horizontally discontinuous across the project site. The granular soils generally had a relative density of very loose to medium dense, while the fine-grained soils had a relative consistency of stiff to very stiff. As indicated above, the soils encountered in the test borings are related to deep alluvial deposits that have been deposited over the past several thousand years.

A Boring Location Map showing the locations of the referenced test borings is presented as Figure 5. The logs of our recent exploratory borings are presented in Appendix A, which provide more detailed information of the soils that were encountered to a depth of approximately 50 feet at the project site.

2.03 Expansive Soils

Our field exploration indicates that the near surface soils at the project site have a very high expansion potential (Expansion Index, EI, \leq 130 and Plasticity Index, PI, of 38 to 50). Results of our laboratory tests are presented in Appendix B.



2.04 Surface and Groundwater Conditions

No areas of ponding or standing water were present at the time of our study. Further, no springs or areas of natural seepage were observed at the project site. Groundwater was encountered in the test borings at a depth of approximately 12.5 to 14 feet.

According to recent groundwater data from the SGMA Data Viewer application, the depth to groundwater in the vicinity of the project site is approximately 13 feet as of Spring 2023. Historical data derived from wells (State Well Number 12S14E33E001M, 12S14E21P001M, 12S14E33Q001M, 12S14E20R001M, and 12S14E20Q001M) located approximately 0.66 miles southwest, 0.92 miles north, 0.99 miles south-southeast, 1.01 miles north-northwest, and 1.26 miles northwest, respectively, of the project site indicates the depth to ground water in the vicinity of the project site was approximately 10.9 feet deep in the early 1950's, declined slightly by 1.5 feet by the late-1980's, and remained relatively constant into the mid-2010's, with a historical high of 0.5 feet in March 1983.

Since the 1950's (the earliest well data available), the depth to groundwater has increased slightly, falling approximately 6.2 feet in 68 years. Some recovery in the groundwater could occur, especially following a period of wet years. However, in consideration of the demand for groundwater related to domestic and agricultural purposes, it is highly unlikely that the groundwater table will recover much above the levels observed during, or prior to, the 1980's. Thus, although the "historical high" groundwater table is approximately 0.5 feet at the project site, a design "high" groundwater table of 12.5 feet is recommended for Civil Engineering purposes.

2.05 Faults

The site is not located within the boundaries of an Earthquake Fault Zone for fault-rupture hazard as defined by the Alquist-Priolo Earthquake Fault Zoning Act and no faults are known to pass through the property. The nearest active earthquake fault zones are the Ortigalita Fault Zone, the Nunez Fault, the San Andreas Fault Zone, the Calaveras Fault Zone, and the Quien Sabe Fault located approximately 25 miles west-southwest, 42.4 miles south, 43 miles southwest, 43.7 miles west-southwest, and 44.8 miles west, respectively, of the project site. The location of the project site relative to these and other fault zones is illustrated on Figure 4a.

Our research of regional geologic and seismic data did not reveal any known instances of ground failure in the vicinity of the site associated with regional seismic activity. Seismic design parameters relative to the requirements of the 2022 California Building Code (CBC) are presented in Section 3.03.

2.06 Historic Seismicity

According to the California Historical Earthquakes Online Database maintained by the California Geological Survey and the United Stated Geological Survey (USGS) database, there have been fourteen (14) historic earthquakes with a magnitude greater than or equal to 5.5 with an epicenter within 50 miles of the site. Large historic earthquakes in California with an epicenter of less than 100 miles away from the site are summarized in the table below.



Large Historic Earthquakes

Event	Date	Magnitude	Distance from Site (Miles)
NE of San Juan Bautista	June 10, 1836	6.4	59
San Andreas	June 25, 1838	7.4	99
E of San Juan Bautista	January 18, 1840	6.5	58
SE of San Juan Bautista	July 3, 1841	6.0	58
E of King City	September 2, 1853	6.3	46
W of Coalinga	January 9, 1857	6.1	53
E of King City	January 9, 1857	5.6	45
Fort Tejon	January 9, 1857	7.9	80
SE of Fremont	November 26, 1858	6.2	87
NE of King City	April 17, 1860	6.0	45
NE of Morgan Hill	February 26, 1864	6.1	68
E of Fremont	March 5, 1864	6.0	91
S of San Jose	October 8, 1865	6.5	84
SW of Tracy	July 15, 1866	6.0	82
NW of Parkfield	February 2, 1881	6.0	56
SW of Patterson	April 10, 1881	6.3	56
NE of Soledad	March 6, 1882	5.9	44
SW of Hollister	March 30, 1883	6.0	59
SE of Hollister	March 31, 1885	5.7	43
NE of Soledad	April 2, 1885	5.9	40
E of King City	April 12, 1885	6.5	49
SW of Bishop	September 30, 1889	6.0	99
S of Gilroy	April 24, 1890	6.3	64
E of Gilroy	June 20, 1897	6.3	59
W of San Juan Bautista	April 30, 1899	6.0	64
NW of Parkfield	March 3, 1901	6.4	59
S of Morgan Hill	July 21, 1911	6.5	68
SE of Parkfield	March 10, 1922	6.5	77
E of King City	July 25, 1926	5.8	42
SW of Santa Cruz	October 22, 1926	6.4	98
NW of San Simeon	November 22, 1952	6.2	92
SE of Hollister	April 9, 1961	5.9	44
SE of Hollister	April 9, 1961	5.5	49
NE of Coalinga	May 2, 1983	6.7	44
NE of Coalinga	May 2, 1983	5.5	44
NE of Coalinga	September 9, 1983	5.5	45



Event	Date	Magnitude	Distance from Site (Miles)
E of San Jose	April 4, 1984	6.2	75
SE of Hollister	January 26, 1986	5.5	47
Loma Prieta	October 18, 1989	6.9	80
NE of San Simeon	December 22, 2003	6.5	88
SE of Parkfield	September 28, 2004	6.0	72

2.07 Flooding Potential

According to the Federal Emergency Management Agency (Flood Insurance Rate Map #06019C1430H, effective February 18, 2009), the new classrooms are located within a shaded area of "Flood Zone AH". Flood Zone AH is a Special Flood Hazard Area subject to inundation by the 1% annual chance flood (the 100-year flood or base flood) which is a flood that has a 1% chance of being equaled or exceeded in any given year. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. Bailey Elementary School lies entirely within Flood Zone AH, which has "flood depths of 1 to 3 feet" and "usually contain areas of ponding" with "base flood elevations determined."

Controlling surface runoff originating from within and outside of the site must be included in design of the project in accordance with the 2022 CBC.

2.08 Landslides

Since there are no natural or manmade slopes in the vicinity of the project site, landslides are not a hazard at this site.

2.09 Other Geologic Hazards

California Geologic Survey Note 48 (2022) identifies a number of exceptional geologic hazards that can occur at individual sites, but do not occur statewide. Evaluation of these exceptional conditions is referred as a conditional geologic assessment by Note 48. Specific assessment items listed in Note 48 are addressed in the table below.

Conditional Geologic Assessment

Hazard	Assessment	Reference
Methane gas, hydrogen-sulfide gas, tar seeps	Not applicable; site is not located within an oil field identified as a high risk area for hazardous gas accumulations.	See Section 1.03.
Volcanic eruption	Not applicable; site is not located in a known hazard area for volcanic eruptions.	Miller, 1989 (U.S.G.S. Bulletin 1847)



Hazard	Assessment	Reference
Flooding	The proposed development area is located within the boundaries of a 100-year flood zone.	See Section 2.07.
Tsunami and seiches inundation	Not applicable.	See Section 3.12.
Radon-222 gas	Based on our review of the California Department of Public Health Indoor Radon Test Results from 2016, the zip code 93622 had 0 of 2 tests indicate Radon-222 gas levels greater than or equal to the threshold action level of 4 pCi/L (max result was 1 pCi/L). Provided the building(s) is constructed with adequate ventilation, radon exposure is not considered a concern.	See Section 2.01 and CGS Note 48.
Naturally occurring asbestos	Not applicable; site is not located in an area likely to contain naturally occurring asbestos.	Churchill and Hill, 2000 (DMG OFR 2000-19)
Hydrocollapse due to anthropic use of water	Due to the density of the underlying soils, hydrocollapse due to anthropic use of water is unlikely.	See Sections 2.01, 2.02, and Appendix A.
Regional land subsidence	The site is not identified in an area of large historic subsidence within the California Central Valley (although there is major subsidence 20 miles to the northwest and 15 miles southeast). Control of subsidence will dependent upon proper jurisdictional management of groundwater resources.	Borches and Carpenter, 2014.
Clays and cyclic softening	Soils within the upper 50 feet of the ground surface consist of high-plasticity clays. Expansive properties of near-surface soils have been considered in foundation design.	See Sections 3.04 and 3.11.



3.00 CONCLUSIONS AND RECOMMENDATIONS

3.01 General Conclusions

Based on specific data and information contained in this report, our understanding of the project, and our geotechnical engineering experience, it is our professional judgment that the proposed development is geologically and geotechnically feasible. Our review of geological literature and the field exploration performed for this project did not indicate any unusual conditions at the site that would entail special design considerations or construction procedures. Specific geotechnical recommendations and guidelines are presented below to provide information for other members of the design team that can be used to prepare the project plans and specifications for the planned improvements to the administration building.

3.02 General Earthwork and Grading

All grading should be performed in accordance with the recommendations provided below, the project plans and specifications, Appendix J of the 2022 California Building Code and all applicable governmental agency requirements. In the event of conflicts between this report and the other referenced documents, this report shall govern. It should be noted that all references to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D1557 laboratory test procedures.

3.03 Rippability and Rock Disposal

Exploratory borings that have been done at the project site were advanced without difficulty and no oversize materials were encountered. Accordingly, we expect that all earth materials will be rippable with conventional grading equipment and oversized materials are not expected.

3.04 Earthwork Recommendations

All earthwork should be performed in accordance with Appendix J of the 2022 California Building Code and all applicable governmental agency requirements. In the event of conflicts between this report and Appendix J, this report shall govern. It should be noted that all references to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D1557 laboratory test procedures.

A minimum of 2 feet should be removed and replaced as described in this section, with consideration to the grading design elevations. Based on specific data and information collected for this report, our understanding of the project, and our geotechnical engineering experience, it is our professional judgment that one of the following options can be performed: (Option 1) removal of expansive on-site soils and replacement with approved non-expansive soils (see Section 3.07) compacted to 90 percent relative compaction during earthwork, (Option 2) moisture conditioning to at least 4 percent over optimum moisture (as determined from ASTM D1557) of the upper 2 feet of soils below the finished subgrade, is geotechnically feasible. Encountered near surface soil samples had varying moisture contents. Design provisions should be included in design for moisture control in order to mitigate potential expansion of soils, including but not limited to, concrete aprons, deepened footings, downspout



extensions away from perimeter walls. The Owners and Design Team should be aware that the level of risk from soils expansion potential tends to increase with the expansive soils present immediately below concrete slabs. Specific geotechnical recommendations are presented below to address these soil conditions and provide information for other members of the design team to prepare the project plans and specifications for the planned construction.

All vegetation, organic rich soils (soils containing more than 2 percent organics by weight), trash, and debris, should be cleared from the grading area and removed from the site. If allowed by the landscape architect, organic-rich soils can be placed in the upper 12 inches of landscape areas at the site. Based on our field exploration, the site should be stripped to a depth of approximately 4 inches. In areas where the existing AC pavement section is removed, AC grindings with a maximum particle size of 3 inches and at least 30 percent passing the #4 sieve can be used as fill material outside of new building area. Aggregate base can be reclaimed and used as fill material; however, it must be segregated from the underlying soil and should not be mixed with AC grindings if placed as fill within the building area.

A reinforced earth mat is recommended and must be considered as an important part of the earthwork (see **Section 3.12**). Prior to performing the over-excavation recommended below, the stripped surface should be observed and approved by the Project Geotechnical Engineer. After the removal of deleterious materials and the stripping of organic-rich soils, one of the following options must be done within the area of the planned improvements:

Option (1):

- Within the area of the planned building improvements plus at least 5 feet horizontally beyond the perimeter of these improvements, the subgrade must be over-excavated at least 24 inches below the stripped subgrade surface or at least 12 inches below the bottom of footings, whichever is deeper. As a minimum, the upper 2 feet of soils below the finished subgrade should consist of approved non-expansive import soils (see Section 3.07) compacted to at least 90 percent of laboratory maximum density determined using ASTM D1557 method. The reinforced mat is non-expansive.
- Outside of "building pad" area indicated above, and within the areas of planned asphalt pavement or concrete flatwork, the subgrade must be over-excavated at least 12 inches below the stripped surface or below the finished subgrade surface, whichever is lower.
- Following the over-excavation indicated above, a designated representative for the Project Geotechnical Engineer must review the exposed ground surface prior to scarification and determine if any additional over-excavation is required.
- The over-excavated ground surface in all areas determined to be satisfactory for the support of fills must be scarified to a minimum depth of 12 inches. Scarification should continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to at least 4 percent over optimum. The scarified zone must then be uniformly compacted to at least 90 percent relative compaction except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicle traffic, which must be compacted to at least 95 percent.



• Approved non-expansive fill material (see Section 3.07) should be placed in nearly horizontal layers, uniformly moisture conditioned to at least optimum moisture content for on-site soils, or, uniformly moisture conditioned to at least optimum moisture content for import non-expansive soils, but not more than a moisture content that will not lend to achieving required compaction, and then compacted in layers that do not exceed approximately 6 inches in thickness. Thicker lifts may be placed if testing indicates the compaction procedures are such that the required compaction is being achieved and the geotechnical consultant approves their use. Each layer shall be spread evenly and shall be thoroughly mixed during the spreading to insure uniformity of material in each layer. Engineered fill must be compacted to achieve a relative compaction of at least 90 percent except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicular traffic, which must be compacted to at least 95 percent. A representative from RMA GeoScience must observe the placement of all fill material and perform tests to verify that the compaction of the fill material meets these requirements.

Option (2):

- Within the area of the planned building improvements plus at least 5 feet horizontally beyond the perimeter of these improvements, the upper 24 inches of subgrade soils below the concrete slab-on-grade should consist of on-site soils moisture conditioned to at least 4 percent over optimum moisture content as determined in accordance with ASTM D1557. The upper 12 inches may consist of imported non-expansive soils. If the upper 12 inches consists of imported non-expansive soils, the on-site soils below the import soils should be moisture conditioned at least 4 percent over optimum. The reinforced mat thickness can be considered part of the required thickness of moisture conditioned soils.
- Outside of "building pad" areas indicated above, and within the areas of planned asphalt pavement or concrete flatwork, the upper 12 inches of subgrade soils below the concrete slab-on-grade should consist of native clayey soils moisture conditioned to at least 4 percent over optimum moisture content as determined in accordance with ASTM D1557.
- A concrete apron at least 4 feet wide should be installed along the exterior perimeter of each structure to
 mitigate migration of water towards underneath the building. All surface water should drain away from
 the buildings.
- Following the over-excavation indicated above, a designated representative for the Project Geotechnical Engineer must review the exposed ground surface prior to scarification and determine if any additional over-excavation is required.
- The over-excavated ground surface in all areas determined to be satisfactory for the support of fills must be scarified to a minimum depth of 12 inches. Scarification should continue until the soils are broken down and free from lumps or clods and until the scarified zone is uniform. The moisture content of the scarified zone shall be adjusted to at least 4 percent over optimum. The scarified zone must then be uniformly compacted to at least 90 percent relative compaction except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicle traffic, which must be compacted to at least 95 percent.
- Removed and/or over-excavated on-site native soils free of organics and other deleterious material may be used as engineered fill. Fill material should be placed in nearly horizontal layers, uniformly moisture conditioned to at least 4 percent over optimum moisture content for on-site soils, or, uniformly moisture conditioned to near optimum moisture content for import non-expansive soils, but not more than a moisture content that will not lend to achieving required compaction, and then compacted in layers that

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do not exceed approximately 6 inches in thickness. Thicker lifts may be placed if testing indicates the compaction procedures are such that the required compaction is being achieved and the geotechnical consultant approves their use. Each layer shall be spread evenly and shall be thoroughly mixed during the spreading to insure uniformity of material in each layer Engineered fill must be compacted to achieve a relative compaction of at least 90 percent except for the upper 12 inches of subgrade below asphalt or concrete pavement sections subject to vehicular traffic, which must be compacted to at least 95 percent. A representative from RMA GeoScience must observe the placement of all fill material and perform tests to verify that the compaction of the fill material meets these requirements.

The above recommendations are based on the assumption that soils encountered during field exploration are representative of soils throughout the site. However, there can be unforeseen and unanticipated variations in soils between points of subsurface exploration. Hence, over-excavation depths must be verified, and adjusted if necessary, at the time of grading. In addition, any contaminated or expansive soils within three (3) feet of the finished subgrade surface, must be removed and properly disposed of outside the area of the planned improvements.

3.05 Imported Fill Material

If required, imported fill materials that will be placed within building or concrete flatwork areas must be non-hazardous and be obtained from a single, uniform source that meets the following criteria:

	Gradation		
Sieve	Sieve Size Percent Passing		Passing
3-in	ch	100)%
3/4-i	nch	90% -	100%
#4	1	60% -	100%
#20	00	20% -	50%
Maximum Expansion Index Maximum Plasticity Index		asticity Index	
20	20 10		O
Minimum R-Value (in paved areas)			
40			
Maximum Organic Content			
	< 2% by weight		
Corrosivity			
	Minimum	Soluble	Soluble
pН	Resistivity	Sulfates	Chlorides
	(ohm-cm)	(mg/kg)	(mg/kg)
6.0 to 8.5	> 5,000*	< 1,000	< 200

^{*}unless other requirement established by the Design Engineer



3.06 Temporary Slopes and Shoring

Our geotechnical investigation indicates that excavations less than 4 feet in depth may generally be constructed with vertical sidewalls without shoring or shielding. Temporary excavations in existing alluvial soils that are deeper than 4 feet may be safely made at an inclination of 1:1 or flatter. If vertical sidewalls are required in excavations greater than 4 feet in depth, the use of cantilevered or braced shoring is recommended. The following geotechnical parameters can be used to design a shoring system:

Moist Unit Weight of Soils: 130 pcf Angle of Internal Friction (ø): 30° Cohesion: 450 psf

Unless vehicles, equipment, materials, etc., are kept a minimum distance equal to the height of the excavation away from the edge of the excavation, a surcharge load equal to a uniform lateral pressure of 72 psf should be assumed to act on the shoring in addition to the earth pressure calculated using the above geotechnical parameters.

Vehicles, equipment, materials, etc. should be set back a minimum distance of 10 feet from the top edge of sloped or vertical excavations. Surface waters should be diverted away from temporary excavations and prevented from draining over the top of the excavation and down the slope face. During periods of heavy rain, the slope face should be protected with sandbags to prevent drainage over the edge of the slope, and a visqueen liner placed on the slope face to prevent erosion of the slope face.

Periodic observations of the excavations should be made by the geotechnical consultant to verify that the soil conditions have not varied from those anticipated and to monitor the overall condition of the temporary excavations over time. If at any time during construction conditions are encountered which differ from those anticipated, the geotechnical consultant should be contacted and allowed to analyze the field conditions prior to commencing work within the excavation. In any case, Cal/OSHA construction safety orders should be observed during all underground work.

3.07 Fill and Cut Slopes

Due to the low gradient of the property, it appears that construction of cut and fill slopes will not be required. If such slopes are proposed, they should be inclined no steeper than 2 horizontal to 1 vertical. In addition, appropriate landscaping measures should be taken to protect the face of slopes from erosion.

3.08 Utility Trench Backfill

The existing onsite soils will generally not be suitable for use as pipe bedding for buried utilities. All pipes should be bedded in sand or other suitable material as specified by the Project Civil Engineer and/or as specified by the pipe/conduit manufacturer. We recommend the bedding material have a Sand Equivalent (SE) of at least 30 and have less than 8 percent, by weight, passing the #200 Sieve. The geotechnical consultant should review and



approve proposed bedding materials prior to use. Bedding materials should be compacted to at least 90% relative compaction (ASTM D1557) by mechanical methods.

The on-site soils are expected to be suitable as trench backfill provided they are screened of organic matter and other deleterious material. Trench backfill must be compacted to at least 90% relative compaction (ASTM D1557) and the upper 12 inches of trench backfill beneath pavement sections should be compacted to at least 95% relative compaction. Trench backfill should be compacted using mechanical methods; no jetting of backfill should be allowed. A minimum trench width of 24 inches or 18 inches plus the diameter of the utility line, whichever is greater, should be provided to permit uniform compaction on both sides of utility line and allow for a technician to perform in-place density tests. If narrower trenches are desired, a sand-cement slurry should be used to backfill the trenches to within 8 inches of the top of trench. The sand-cement slurry should contain at least 2 sacks of cement per yard of mix and have a 4- to 6-inch slump. In addition, slurry should be consolidated using a suitable vibratory or mechanical method.

All utility trench backfill within street right of ways, utility easements, under or adjacent to sidewalks, driveways, or building pads should be observed and tested by the geotechnical consultant to verify proper compaction. Trenches excavated adjacent to foundations should not extend within the footing influence zone defined as the area within a line projected at a 1:1 drawn from the bottom edge of the footing. Trenches crossing perpendicular to foundations should be excavated and backfilled prior to the construction of the foundations. The excavations should be backfilled in the presence of the geotechnical engineer and tested to verify adequate compaction beneath the proposed footing. Where utility crossings are located within 12 inches of bottoms of footings, conduits should be wrapped with polystyrene foam or other suitable material with a minimum thickness of one inch. Conduits extending through footings shall be "sleeved" as determined by the Project Structural Engineer.

3.09 Faulting

Since the site is not located within the boundaries of an Earthquake Fault Zone and no faults are known to pass through or near the property, surface fault rupture within the site is considered unlikely.

3.10 Seismic Design Parameters

Seismic design parameters have been developed in accordance with Section 1613A of the 2022 California Building Code (CBC) using the online SEAOC and OSHPD Seismic Design Maps Calculator (ASCE 7-16 Standard) and a site location based on latitude and longitude. The calculator generates probabilistic and deterministic maximum considered earthquake spectral parameters represented by a 5-percent damped acceleration response spectrum having a 2-percent probability of exceedance in 50 years. The deterministic response accelerations are calculated as 150 percent of the largest median 5-percent damped spectral response acceleration computed on active faults within a region, where the deterministic values govern. The calculator does not, however, produce separate probabilistic and deterministic results. The parameters generated for the subject site are presented below:



2022 California Building Code (CBC) Seismic Parameters

Parameter	Value
Site Location	Latitude = 36.8539 degrees
Site Location	Longitude = -120.4459 degrees
Site Class	Site Class = D*
Site Class	Soil Profile Name = "Stiff Soil"
Risk Category	III
Name and Constituted Annual Annual Constitute	S_s (0.2-second period) = 0.842g
Mapped Spectral Accelerations	S_1 (1-second period) = 0.309g
Site Coefficients	F _a = 1.163
(Site Class F)	F _V = Null - Section 11.4.8
Maximum Considered Earthquake	S_{MS} (0.2-second period) = 0.979g
Spectral Accelerations (Site Class D)	S_{M1} (1-second period) = Null - Section 11.4.8
Design Earthquake	S_{DS} (0.2-second period) = 0.653g
Spectral Accelerations (Site Class D)	S _{D1} (1-second period) = Null - Section 11.4.8

^{*}As defined in Chapter 20 of ASCE 7-16, a Site Class D is applicable to predominantly cohesionless soils with an average standard penetration resistance of 15 to 50 within the upper 100 feet. Based on the geologic setting, our 50-foot-deep test boring (see Boring B-5 in Appendix A), taking into consideration correction factors, combining other data from the 20-foot borings, and other historical geotechnical data (see Section 1.02), the soil profile at the project site meets these criteria.

As the Site Class is D and the S_1 value is greater than 0.20g, then per ASCE 7-16 Section 11.4.8 a site-specific ground motions procedure is required with several exceptions. We assume that Exception 2 is applicable to this site, and hence the seismic parameters indicated in the table above have been calculated. If Exception 2 does not apply, the structural engineer should contact us so we develop the site-specific seismic parameters.

The above table shows that the mapped spectral response acceleration parameter for a 1-second period (S_1) is less than 0.75g and the spectral response acceleration parameter (S_{DS}) is greater than 0.50g. Therefore, the Seismic Design Category using 2022 CBC Tables 1613.2.5(1) and 1613.2.5(2) is D for all Occupancy Categories (2022 CBC Section 1613.2.5). Consequently, as required for Seismic Design Categories C through F by CBC Section 1803.5.12, slope instability, liquefaction, total and differential settlement, and surface displacement by faulting or seismically lateral spreading or lateral flow have been evaluated.

Peak earthquake ground acceleration adjusted for site class effects (PGA_M) has been calculated in accordance with ASCE 7-16 Section 11.8.3 as follows: $PGA_{M} = F_{PGA} \times PGA = 1.246 \times 0.354 = 0.441g$.

3.11 Liquefaction and Secondary Earthquake Hazards

Potential secondary seismic hazards that can affect land development projects include liquefaction, tsunamis, seiches, and seismically induced settlement.



Liquefaction

Liquefaction is a phenomenon where earthquake-induced ground vibrations increase the pore pressure in saturated, granular soils until it is equal to the confining, overburden pressure. When this occurs, the soil can completely lose its shear strength and enter a liquefied state. The possibility of liquefaction is dependent upon grain size, relative density, confining pressure, saturation of the soils, and intensity and duration of ground shaking. In order for liquefaction to occur, three criteria must be met: "low density", coarse-grained (sandy) soils, a groundwater depth of less than about 50 feet, and a potential for seismic shaking from nearby large-magnitude earthquake.

Research has shown that saturated, loose sands with a silt content less than about 25 percent are most susceptible to liquefaction, whereas other soil types are generally considered to have a low susceptibility. According to the California Geologic Survey (CGS) Special Publication SP-117A (2008), "Guidelines for Evaluating and Mitigating Seismic Hazards in California," any materials with a PI > 12 and moisture content < 85% of the liquid limit were considered not subject to liquefaction. Liquefaction susceptibility is related to numerous factors, and the following conditions must exist for liquefaction to occur:

- Sediments must be relatively young in age and must not have developed large amounts of cementation;
- Sediments must consist mainly of cohesionless sands and silts;
- The sediment must not have a high relative density;
- Free groundwater must exist in the sediment; and
- The site must be exposed to seismic events of a magnitude large enough to induce straining of soils particles.

The soils in the upper 50 feet at the project site consist primarily of silty clay, clayey sand, and poorly graded sand. A liquefaction analysis was performed using the sampler blow count and soil data from the deep boring that was performed at the project site (Boring B-5), using corrected SPT value $[(N_1)_{60}]$. The analysis was performed using LiquefyPro Version 5 (2015 edition) for two groundwater conditions: at a depth of 0.5 feet (historical high groundwater condition as required by CGS) and at a depth of 12.5 feet (representative of a recommended design "high groundwater condition" based on historical DWR data in the past 30 years). The analysis also took into account that the (PGA_M) is 0.441g and the Modal Magnitude (M_M) for the design level earthquake is 5.5 (based on the PSH Deaggregation tool on the USGS website at https://earthquake.usgs.gov/hazards/interactive/) for a 2-percent probability for exceedance in 50 years (a return period of 2,475 years). A summary of the input data and the results of this liquefaction analysis are provided in Appendix C of this report. Based on this analysis, there appears to be a risk of liquefaction occurring at the project site during a design level earthquake in a poorly graded sand layer between 10 and 33 feet below the ground surface (see Figures C-1 and C-2 Appendix C).

In accordance with California Geologic Survey (CGS) special publication 117 and 117A and Ishihara, K (1985), cyclic liquefaction may result in surface manifestation, which could lead to the development of sand boils. Due to shallow liquefiable poorly graded sand layers encountered throughout the site, bearing loss could occur during



strong earthquake shaking. Bearing loss could result in uneven settlement, causing cracks in the foundation and the structure or partial collapse of the structure.

Seismically induced settlement due to liquefaction was evaluated to be 3.37 inches for the historical high groundwater (see Figure C-2 of Appendix C) and 0.61 inches for the recent groundwater (see Figure C-4 of Appendix C). The general guidelines of the CGS indicate the differential seismically induced settlement across a building would be about one-half the total settlement. This would result in a differential settlement of approximately 1.69 inches for the historical high and approximately 0.31 inches for the recent groundwater.

It should be noted that the California Geological Survey has not yet prepared a Seismic Hazard Zone Map of potential liquefaction hazards for the quadrangle in which the site is located. In addition, there are no liquefaction hazard zones identified near the site according to the Fresno County General Plan. Because there are no mapped liquefaction hazard zones near the site, a map depicting such a zone relative to the site has not been prepared.

Tsunamis and Seiches

Tsunamis are sea waves that are generated in response to large-magnitude earthquakes. When these waves reach shorelines, they sometimes produce coastal flooding. Seiches are the oscillation of large bodies of standing water, such as lakes, that can occur in response to ground shaking. Tsunamis and seiches do not pose hazards due to the inland location of the site and lack of nearby bodies of standing water.

Seismically Induced Settlement

Seismically induced settlement occurs most frequently in areas underlain by loose, granular sediments. Damage as a result of seismically induced settlement is most dramatic when differential settlement occurs in areas with large variations in the thickness of underlying sediments. Settlement caused by ground shaking is often non-uniformly distributed, which can result in differential settlement.

A seismic settlement analysis was performed using LiquefyPro Version 5 (2015 edition) in conjunction with the liquefaction analysis that was performed for this project as indicated above. A summary of the input data and the results of the seismic settlement analysis are provided in Appendix C of this report. Based on this analysis, a seismic settlement of approximately 1.53 inches is expected to occur at the project site during a design level earthquake (see Figure C-4 in Appendix C).

Seismically Induced Flooding

Both the City of Firebaugh and the County of Fresno General Plans indicate the site is located within the potential dam inundation areas of Fraint Dam and Pine Flat Dam (see figure below). However, the city of Firebaugh General Plan notes that in a worst case scenario of dam failure, it would take 24 to 36 hours for flooding to reach the Firebaugh area, leaving adequate time for evacuations.



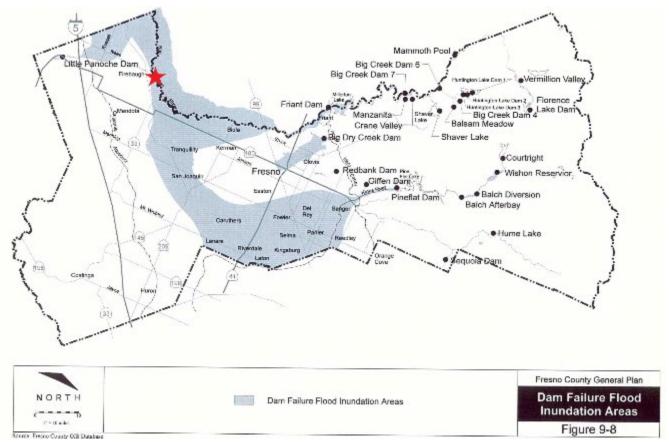


Figure 9-8 from the County of Fresno General Plan depicting Dam Inundation areas. The site is marked with a red star.

Seismically Induced Landslides

There are no cut or fill slopes that currently exist or are planned at the project site; therefore, the potential for seismically induced landslides is nil.

3.12 Specifications for Mitigating Bearing Loss and Settlement

Provided the structure can tolerate 1-inch of differential settlement, construct a reinforced earth mat on recompacted subgrade using geogrid (Tensar Triax TX160) and fill composite to minimize the potential for bearing loss. Fill may consist of either compacted on-site/select granular import fill or Caltrans Class 2 aggregate base fill. The Caltrans Standard Specifications provide the grading criteria for Class 2 aggregate base. All other import fill shall follow the recommendations in this report (Section 3.05). All imported fill materials to be used for engineered fill should be sampled and tested by a representative of the project Geotechnical Engineer prior to being transported to the site.

The earth mat comprised of geogrid and fill layers shall extend under the entire building including overhangs supported on foundations and shall extend beyond the perimeter of the outer most foundations a distance of 1



to 1.5 times the sum of the earth mat thickness plus depth of fill above the earth mat. The extension of the earth mat beyond the structure is necessary to provide adequate bearing support at the building perimeter and is consistent with recommendations provided by the geogrid manufacturer Tensar, Information Bulletin, IB Earthquake Foundation, April 5, 2013.

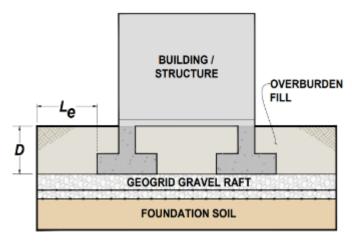


Figure depicting geogrid rigid earth mat where "D" is the footing depth and "Le" is the lateral extents beyond the footing.

The earth mat may interfere with the construction of foundations and utilities, therefore, the Structural Engineer, Civil Engineer, and Architect shall coordinate plans to insure the earth mat geogrid and fill is placed below foundations and utilities such that the grid and fill composite is not compromised by excavation of footings or utilities.

The earth mat shall consist of placing two (2) layers of Tensar Triax TX160 geogrid with 12 inches of compacted Caltrans Class 2 aggregate base fill placed on top of each geogrid for a total earth mat thickness of 2 feet. Prior to initiating the construction of the earth mat, the recommendations in Section 3.04 of this report shall be implemented. The relative compaction of subgrade, fill soil, select fill, and, or Class 2 aggregate base shall be a minimum of 95 percent. Soils and aggregate base used for engineered fill should be uniformly moisture conditioned to at, or above the optimum moisture content, placed in horizontal lifts less than 8 inches in loose thickness, and compacted to at least 95 percent relative compaction.

The first or bottom geogrid should be placed on the smoothed compacted subgrade. Adjacent panels of geogrid shall be lapped a minimum of 2 feet. The geogrids should be smooth and taught to remove all slack and adjacent geogrids should be lapped a minimum of 2 feet. The geogrid shall be covered with a minimum of 6 inches of select fill or Class 2 aggregate base to provide confinement and initial compaction. The lift thicknesses shall be adjusted based on the ability of the equipment to meet compaction. Additional select fill and, or aggregate base lifts shall be placed and compacted to achieve the recommended thickness of 12 inches over the grid. The second geogrid should be placed on top of the 12 inches compacted select fill or aggregate base and followed by an additional 12 inches of select fill or aggregate base. Engineered fill to achieve the final pad grade elevation shall be placed and compacted in accordance with Section 3.04 of this report. Fill placed above the two-layer geogrid and fill composite described above may be compacted to 90 percent relative compaction.



3.13 Foundations

Isolated spread footings and/or continuous wall footings are recommended to support the proposed new building. New footings should be embedded at least 12 inches below the lowest adjacent grade and must be constructed on properly compacted fill as recommended in Section 3.04 of this report. Continuous and isolated spread footings with a minimum width of 12 and 24 inches, respectively, may be designed using an allowable bearing capacity of 2,000 pounds per square foot (psf). This allowable bearing capacity represents an allowable net increase in soil pressure over existing soil pressure and may be increased by one-third for short-term wind or seismic loads. The maximum expected settlement of footings is expected to be less than 3/4 inch with a differential settlement of less than 1/4 inch between similarly sized and loaded footings or less than 1/4 inch over a distance of 30 feet for continuous footings. This assumes that the maximum column and wall loads (dead plus live, not including wind or seismic) associated with new building improvements will not exceed 40 kips and 2.0 kips per foot, respectively.

Our lab testing indicates that the upper 5 feet of soils at the site should have a very high expansion potential (Expansion Index \leq 130). The type and dimensions of concrete, and the size and location of reinforcing steel, used in foundations should be specified by the Project Structural Engineer. As a minimum, reinforcement for continuous footings should include at least one #4 bar located near both the top and bottom of continuous footings.

It will be very important for all footing excavations to be observed by the geotechnical engineer to verify that they have been excavated into the recommended bearing material. Where zones of relatively loose or disturbed soils are present at the bottom of foundation excavations, these soils should be properly compacted to provide a uniform bearing surface that meets the approval of the geotechnical engineer (refer to Section 3.04).

3.14 Lateral Load Resistance and Earth Pressures

Lateral loads may be resisted by soil friction and the passive resistance of the soil. The following parameters are recommended.

- Allowable Passive Earth Pressure = 300 psf (equivalent fluid weight, includes a factor of safety = 2.0)
- Allowable Coefficient of Friction (soil to footing) = 0.30 (includes a factor of safety = 1.5)
- Retaining structures should be designed to resist a lateral active earth pressure of 40 pcf (equivalent fluid weight) for a level, non-expansive granular backfill with drainage provided.

The active earth pressure provided above is only applicable if the retained earth is allowed to strain sufficiently to achieve the active state. The required minimum horizontal strain to achieve the active state is approximately 0.0025H. Retaining structures should be designed to resist an at-rest lateral earth pressure of 55 pcf (equivalent fluid weight) if this horizontal strain cannot be achieved.

3.15 Pole Type Foundations

It is anticipated that light poles, signs, or canopies may be supported on pole-type foundations or drilled piers. This type of foundation should be designed in accordance with Section 1807.3 of the 2022 CBC. It is recommended that



an allowable lateral soil bearing pressure of 300 psf per foot of embedment be used to develop parameters S1 and S3 rather than one of the values given in Table 1806.2. This value includes a factor of safety of 2 and may be increased as indicated in Section 1806.3.4. In landscape areas, the upper 12 inches of soil should be ignored when calculating the minimum depth of embedment.

An allowable end bearing pressure of 2,000 psf (includes a factor of safety of 3.0) and an allowable average skin friction of 330 psf (includes a factor of safety of 2.0) may be used to support compressive vertical loads applied to pier foundations that are embedded at least 5 feet. The end bearing should be ignored if the drilled pier excavation is not properly cleaned out prior to installing the reinforcing steel and placing concrete. The uplift capacity of drilled piers can be calculated using an allowable skin friction of 230 psf plus the weight of the pier. In landscape areas, the skin friction within the upper 12 inches of embedded length should be ignored for compressive or uplift loads. The total settlement of pier foundations designed in accordance with these recommendations should not exceed one-half inch.

Prior to placing reinforcing steel or concrete, loose or disturbed soils should be removed from drilled pier excavations. A representative of the Geotechnical Engineer should observe the drilling and clean-out associated with the construction of pier foundations in order to assess whether the actual bearing conditions are compatible with the conditions anticipated during the preparation of this report. Therefore, for drilled piers that extend to depths of sandy soils, the contractor should be prepared to take measures to prevent caving or significant sloughing in drilled holes (such as temporary casing) from occurring during the drilling and installation of reinforcing steel and concrete. In any case, reinforcing steel and concrete should be installed in an expeditious manner after each drilled hole is cleaned out. The contractor must take responsibility for staging the installation of drilled piers so that significant amounts of sloughing or caving do not occur prior to installing the reinforcing steel and concrete. The annular space around the pole must be backfilled using approved CLSM (controlled low strength material).

3.16 Interior Slabs on Grade

Concrete floors with a minimum thickness of 4 inches are recommended for interior slabs on grade. Existing on-site soils within 5 feet of the ground surface may be considered to have a very high expansion potential for design purposes (Expansion Index of \leq 130). However, to reduce the potential for excessive cracks as a result of differential movement, consideration should be given to reinforcing concrete slab-on-grade floors with at least #3 bars spaced 24 inches on-center in both directions. Reinforcement consisting of welded or woven wire mesh should not be used, due to the difficulty of keeping it centered in the slab during the construction process. If heavy concentrated or moving loads are anticipated, slabs should be designed using a modulus of subgrade reaction (k) of 90 pci. The concrete mix, reinforcement of slabs, and the location of construction and control joints should be specified by the Design Engineer.

Special care should be taken on floors slabs to be covered with thin-set tile or other inflexible coverings. These areas should have suitable reinforcement that is placed at the mid-height of the slab, to mitigate drying shrinkage cracks. Alternatively, inflexible flooring may be installed with unbonded fabric or liners to prevent reflection of slab cracks through the flooring.



A moisture vapor retarder/barrier is recommended beneath all slabs-on-grade that will be covered by moisture-sensitive flooring materials such as vinyl, linoleum, wood, carpet, rubber, rubber-backed carpet, tile, impermeable floor coatings, adhesives, or where moisture-sensitive equipment, products, or environments will exist. We recommend that design and construction of the moisture vapor retarder/barrier conform to Section 1805 of the 2022 California Building Code and pertinent sections of American Concrete Institute (ACI) guidance documents 302.1R-04, 302.2R-06 and 360R-10.

The moisture vapor retarder/barrier should consist of a minimum 10 mils thick polyethylene with a maximum perm rating of 0.3 in accordance with ASTM E 1745. Seams in the moisture vapor retarder/barrier should be overlapped no less than 6 inches or in accordance with the manufacturer's recommendations. Joints and penetrations should be sealed with the manufacturer's recommended adhesives, pressure-sensitive tape, or both. The contractor must avoid damaging or puncturing the moisture vapor retarder/barrier and repair any punctures with additional polyethylene properly lapped and sealed.

The moisture vapor retarder/barrier may be placed directly beneath the floor slab with no intermediate granular fill layer. The vapor barrier should be placed directly on a smooth compacted subgrade surface consistent with the recommendations provided in Section 3.02 of this report. This method of construction will provide improved curing of the slab bottom and will eliminate potential problems caused by water being trapped in a granular fill layer. However, concrete slabs poured directly on a moisture vapor retarder/barrier can experience shrinkage cracking and curling due to differential rates of curing through the thickness of the slab. Therefore, for concrete placed directly on the moisture vapor retarder/barrier, we recommend a maximum water to cement ratio of 0.45 and the use of water-reducing admixtures to increase workability and decrease bleeding.

Alternatively, the slabs may be constructed over 2 inches of sand that is placed on the moisture vapor retarder/barrier. Granular fill should consist of clean, fine-graded materials with 100% passing the No. 4 sieve, 10% to 30% passing the No. 100 sieve, and less than 5% passing the No. 200 sieve. The granular layer should be moist but not saturated and uniformly compacted by making at least one pass with a vibratory base compactor or some other mechanical method that is approved by the Project Geotechnical Engineer. If uneven, the surface of the sand should be trimmed to provide the full design thickness of the proposed slab. The granular fill layer should not be left exposed to rain or other sources of water such as wet-grinding, power washing, pipe leaks or other processes, and should be damp but not saturated at the time of concrete placement. Granular fill layers that become saturated should be removed and replaced prior to concrete placement.

3.17 Miscellaneous Concrete Flatwork

Miscellaneous concrete flatwork and walkways may be designed with a minimum thickness of 4 inches. Large slabs (greater than 6 feet in width) should be reinforced with a minimum of #3 rebar placed 24 inches on-center in both directions. The reinforcement must be placed at mid-height in the slab. Control joints should be constructed to create squares or rectangles with a maximum spacing of 12 feet. The Project Civil Engineer should



provide design details and specifications for all exterior concrete flatwork include walkways. In addition, walkways should be separated from foundations with a thick expansion joint filler.

The subgrade beneath all miscellaneous concrete flatwork and equipment pads should be constructed in accordance with Section 3.04 of this report. The geotechnical engineer should monitor the moisture conditioning and compaction of the subgrade soils in order to verify compliance with our recommendations.

3.18 Footing Excavations and Concrete Subgrade

All footing excavations should be observed by the geotechnical consultant to verify that they have been excavated into competent soils. The foundation excavations should be observed prior to the placement of forms, reinforcement steel, or concrete. These excavations should be evenly trimmed and level. Prior to concrete placement, any loose or soft soils should be removed. Excavated soils should not be placed within slab or footing areas unless properly compacted (see Section 3.04).

Prior to the placement of the moisture barrier and sand, the subgrade soils underlying the slab should be observed by the geotechnical consultant to verify that all under-slab utility trenches have been properly backfilled and compacted, that no loose or soft soils are present, and that the slab subgrade has been properly compacted to a minimum of 90 percent relative compaction within the upper 12 inches.

Footings may experience an overall loss in bearing capacity or an increased potential to settle where located in close proximity to existing or future utility trenches. Furthermore, stresses imposed by the footings on the utility lines may cause cracking, collapse and/or a loss of serviceability. To reduce this risk, footings should extend below a 1:1 plane projected upward from the closest bottom of a parallel utility trench.

The subgrade below slabs on grade and walkways should be brought to a minimum of 0% and a maximum of 4% above the optimum moisture content for a depth of 6 inches prior to the placement of concrete or a moisture barrier. The geotechnical consultant should perform insitu moisture tests to verify that the appropriate moisture content has been achieve a maximum of 72 hours prior to the placement of concrete or moisture barriers.

3.19 Drainage and Moisture Proofing

Surface drainage should be directed away from the proposed improvements into suitable drainage devices (see Section 1804.4 of the 2022 CBC). Neither excess irrigation nor rainwater should be allowed to collect or pond against building foundations or within low-lying or level areas of the lot. Surface waters should be diverted away from the tops of slopes and prevented from draining over the top of slopes and down the slope face.

Walls and portions thereof that retain soil and enclose interior spaces and floors below grade should be waterproofed and damp-proofed in accordance with Section 1805 of the 2022 CBC.

Retaining structures should be drained to prevent the accumulation of subsurface water behind the walls.



Backdrains should be installed behind all retaining walls exceeding 3 feet in height. All backdrains should be outlet to suitable drainage devices. Retaining walls less than 3 feet in height should be provided with backdrains or weep holes. Damp-proofing and/or waterproofing should also be provided on all retaining walls exceeding 3 feet in height.

3.20 Cement Type and Corrosion Potential

Soluble sulfate tests performed on a near-surface soil sample indicate soluble sulfate content of 1,560.0 to 4,640.0 mg/kg (0.156 to 0.464 percent by weight). Thus, below-grade concrete at the subject site should have a **severe** exposure to water-soluble sulfate in the soil. Our recommendations for concrete exposed to sulfate-containing soils are presented in the table below.

Recommendations for Concrete Exposed to Soils Containing Soluble Sulfate

Sulfate Exposure	Water Soluble Sulfate (SO ₄) in Soil (% by Weight)	Sulfate (SO ₄) in Water (ppm)	Cement Type (ASTM C150)	Maximum Water-Cement Ratio (by Weight)	Minimum Compressive Strength (psi)
Negligible	0.00 - 0.10	0-150			2,500
Moderate	0.10 - 0.20	150-1,500	Ш	0.50	4,000
Severe	0.20 - 2.00	1,500- 10,000	V	0.45	4,500
Very Severe	Over 2.00	Over 10,000	V plus pozzolan or slag	0.45	4,500

Use of alternate combinations of cementitious materials may be permitted if the combinations meet design recommendations contained in American Concrete Institute guideline ACI 318-11.

Our testing also indicates that there is an <u>extremely high</u> concentration of soluble chloride (72.5 to 1,560.0 mg/kg) in the onsite soils; <u>therefore</u>, <u>special protection of reinforcing steel should be required due to soil conditions</u>.

The soils were also tested for soil reactivity (pH) and electrical resistivity (ohm-cm). The test results indicate that the on-site soils have a pH in the range of 7.23 to 7.38 and a minimum electrical resistivity in the range of 990 to 1,820 ohm-cm. A neutral or non-corrosive soil has a value ranging from 6.0 to 8.5; thus, the onsite soils can be considered pH neutral. Generally, soils that could be considered moderately corrosive to ferrous metals have minimum resistivity values of about 3,000 ohm-cm to 10,000 ohm-cm. Soils with resistivity values less than 3,000 ohm-cm can be considered corrosive and soils with resistivity values less than 1,000 ohm-cm can be considered extremely corrosive. In any case, buried metal conduits should have a protective coating in accordance with the manufacturer's specifications. A corrosion specialist should be consulted if more detailed recommendations are required.



3.21 Pavement Sections

Current plans indicate that site improvements will include constructing new asphalt concrete (AC) driveways and parking areas. A Traffic Index (TI) in the range of 5.0 to 10.0 is expected to be applicable for the traffic conditions at the project site. These traffic design assumptions should be reviewed for compatibility with the actual development, and revised pavement sections developed, as necessary. Based on the laboratory testing that has been performed (see Figure B8 in Appendix B), a subgrade R-Value of 5 considered applicable for design purposes and have been used to develop the pavement sections are given below. The asphalt concrete (AC) structural section recommendations given herein were developed using the procedures outlined in Chapter 630 of the California Highway Design Manual. The design procedure is based on the principle that the pavement structural section must be of adequate thickness to distribute the load from the design TI to the subgrade soils in such a manner that the stresses from the applied loads do not exceed the strength of the soil (R-Value). Recommended minimum structural sections the planned pavement sections are given below:

Recommended minimum structural sections for <u>Option 1: Non-expansive Import</u> (assumed R-Value of 30) are given below:

Design TI	Recommended Minimum AC Pavement Section
≤ 5.0	2.5" AC over 6.5" Class 2 AB
5.5	3.0" AC over 7.0" Class 2 AB
6.0	3.0" AC over 8.5" Class 2 AB
7.0	4.0" AC over 9.5" Class 2 AB
8.0	4.5" AC over 11.5" Class 2 AB

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 1: Non-expansive Import</u> (assumed R-Value of 30) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section
≤ 5.0	6.0" PCC over 4" Class 2 AB
5.5	6.5" PCC over 4" Class 2 AB
6.0	6.5" PCC over 5" Class 2 AB
7.0	7.0" PCC over 5" Class 2 AB
8.0	7.5" PCC over 5" Class 2 AB

Recommended minimum pavement sections for <u>Option 2: Lime Treated Subgrade</u> (assumed R-Value of 50) are provided in the table below:

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Design TI	Recommended Minimum AC Pavement Section
≤ 5.0	2.5" AC over 3.0" Class 2 AB
5.5	3.0" AC over 3.0" Class 2 AB
6.0	3.0" AC over 4.0" Class 2 AB
7.0	4.0" AC over 4.5" Class 2 AB
8.0	4.5" AC over 6.0" Class 2 AB

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 2: Lime Treated Subgrade</u> (assumed R-Value of 50) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section
≤ 5.0	5.5" PCC over 3" Class 2 AB
5.5	5.5" PCC over 4" Class 2 AB
6.0	6.0" PCC over 4" Class 2 AB
7.0	6.5" PCC over 4" Class 2 AB
8.0	6.5" PCC over 4" Class 2 AB

Recommended minimum pavement sections for Option 3: Existing On-site Soils (R-Value of 5) are provided in the table below:

Design TI	Recommended Minimum
Design 11	AC Pavement Section
≤ 5.0	2.5" AC over 11.0" Class 2 AB
5.5	3.0" AC over 11.5" Class 2 AB
6.0	3.0" AC over 13.5" Class 2 AB
7.0	4.0" AC over 15.5" Class 2 AB
8.0	4.5" AC over 18.5" Class 2 AB

Minimum PCC (Portland cement concrete) thickness sections for <u>Option 3: Existing On-site Soils</u> (R-Value of 5) are given below. Concrete should have a 28-day minimum compressive strength of 4,000 psi:

Design TI	Recommended Minimum PCC Pavement Section			
≤ 5.0	6.0" PCC over 4" Class 2 AB			
5.5	6.5" PCC over 4" Class 2 AB			
6.0	6.5" PCC over 5" Class 2 AB			
7.0	7.0" PCC over 5" Class 2 AB			
8.0	7.5" PCC over 5" Class 2 AB			

The pavement must be carefully sealed at seams and construction joints and periodically maintained in order to prevent infiltration of surface water into the underlying subgrade. Introduction of water into the lime treated subgrade soils after some time can cause hydration of the lime treated soils including minerals formed by the soil-lime mixing. This hydration process can contribute to expansion of a mineral in the lime treated mix which potentially can cause distress in the pavement structure.



Prior to paving, the subgrade should be prepared in accordance with the Earthwork Recommendations Section of this report. At a minimum, the upper 12 inches of subgrade soils should be compacted to at least 95% relative compaction. All aggregate base (AB) courses should be moisture conditioned to within 2% of optimum moisture content and compacted to a minimum of 95% relative compaction. The AC or PCC mix design(s) and installation requirements should be specified by the Project Civil Engineer.

3.22 Plan Review

Once formal grading and foundation plans are prepared for the subject project, this office should review the plans from a geotechnical viewpoint, comment on changes from the plan used during preparation of this report and revise the recommendations of this report where necessary.

3.23 Geotechnical Observation and Testing During Grading

The geotechnical engineer should be contacted to provide observation and testing during the following stages of grading:

- During the clearing and grubbing of the site.
- During the demolition of any existing structures, buried utilities or other existing improvements.
- During excavation and over-excavation of existing subgrade.
- During all phases of grading including ground preparation and filling operations.
- When any unusual conditions are encountered during grading.

A grading and compaction report summarizing conditions encountered during grading and the in-place density testing that was performed should be submitted upon completion of the earthwork construction.

3.24 Post-Grading Geotechnical Observation and Testing

After the completion of grading the geotechnical engineer should be contacted to provide additional observation and testing during the following construction activities:

- During trenching and backfilling operations of buried improvements and utilities to verify proper backfill and compaction of the utility trenches.
- After excavation and prior to placement of reinforcing steel or concrete within footing excavations to verify that footings are properly founded in competent materials.
- During fine or precise grading involving the placement of any fills underlying driveways, sidewalks, walkways, or other miscellaneous concrete flatwork to verify proper placement, mixing and compaction of fills.
- When any unusual ground or soil conditions are encountered during construction.



4.00 CLOSURE

The findings, conclusions and recommendations in this report were prepared in accordance with generally accepted engineering and geologic principles and practices. No other warranty, either express or implied, is made. This report has been prepared for the Firebaugh-Las Deltas Unified School District and other members of the Project Design Team to be used for the design and construction of improvements at the project site. Anyone using this report for any other purpose must draw their own conclusions regarding required construction procedures and subsurface conditions.

RMA GeoScience should be retained during the earthwork and foundation phases of construction to monitor compliance with the design concepts and recommendations and to provide additional recommendations as needed. Should subsurface conditions be encountered during construction that are different from those described in this report, this office should be notified immediately so that our recommendations may be re-evaluated.



FIGURES





FIGURE 1 SITE VICINITY MAP

PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Approximate Limits of the Subject Property

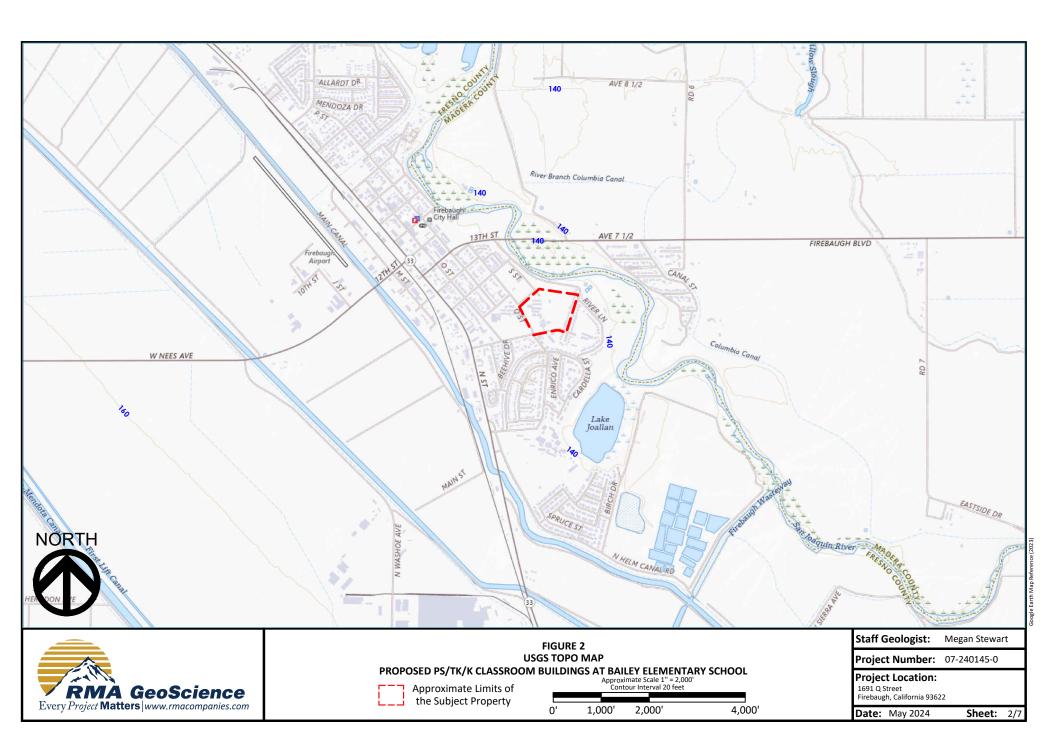
	Approximate Scale 1 = 250						
0'	125'	250'		500'			

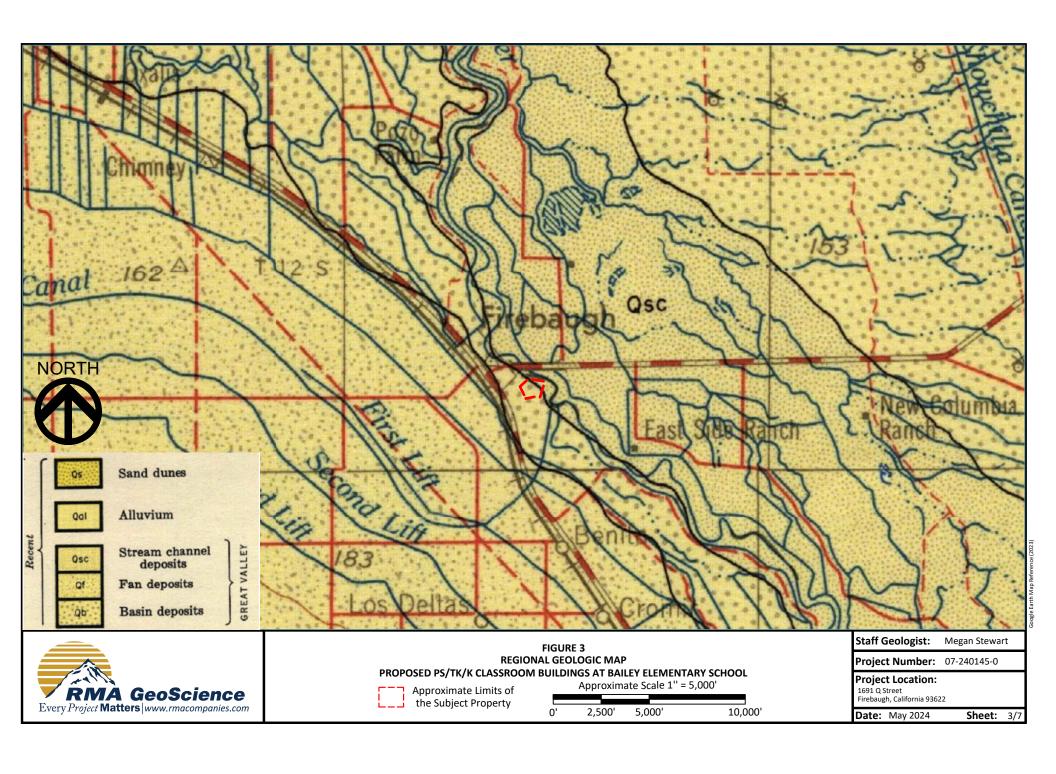
Staff Geologist: Megan Stewart

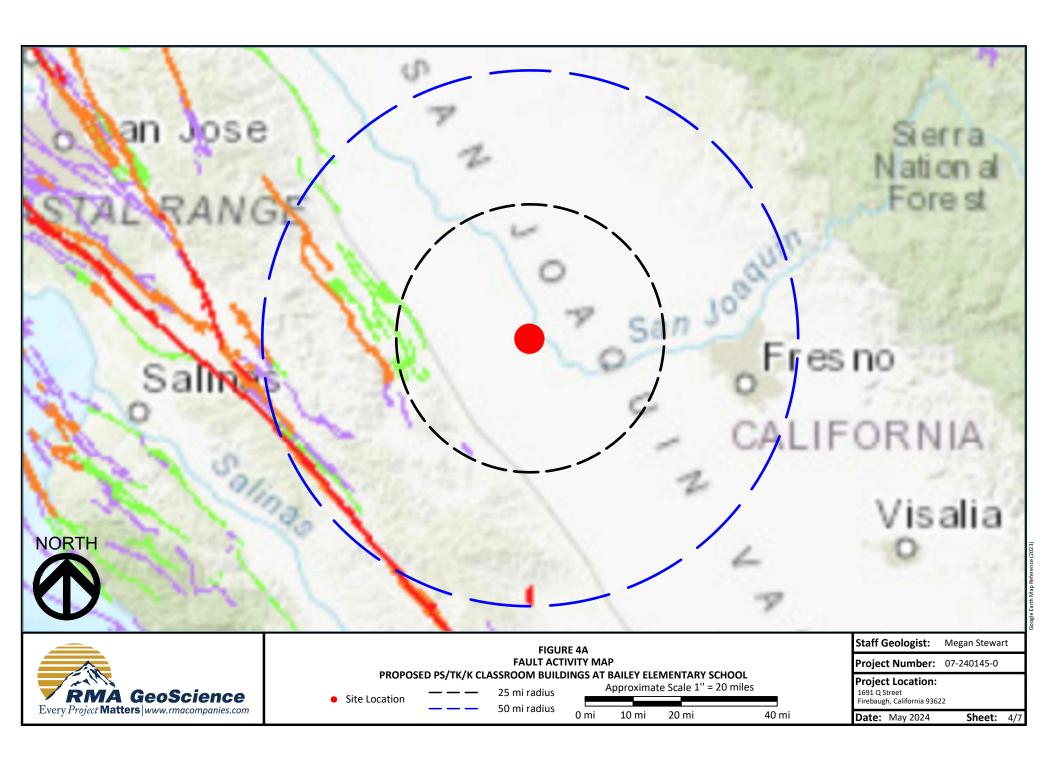
Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 Sheet: 1/7







Geologic		Years Before	Before Fault	Recency	DESCRIPTION		
	Time Scale		Present (Approx.)	Symbol	of Movement	ON LAND	OFFSHORE
.y Historic		200			Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.		
	Quaternary	Holocene	— 11,700 —			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
Quaternary	Late (ne	700,000		-5	Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
Qua	Quater Early Quaternary Pleistocene	Pleistoce			- j.	Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary			— 1,600,000°——			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.
			(Age of Earth)				



FIGURE 4B

LEGEND FOR FAULT ACTIVITY MAP

PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Staff Geologist: Megan Stewart

Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 **Sheet:** 5/7

ogle Earth Map Refe

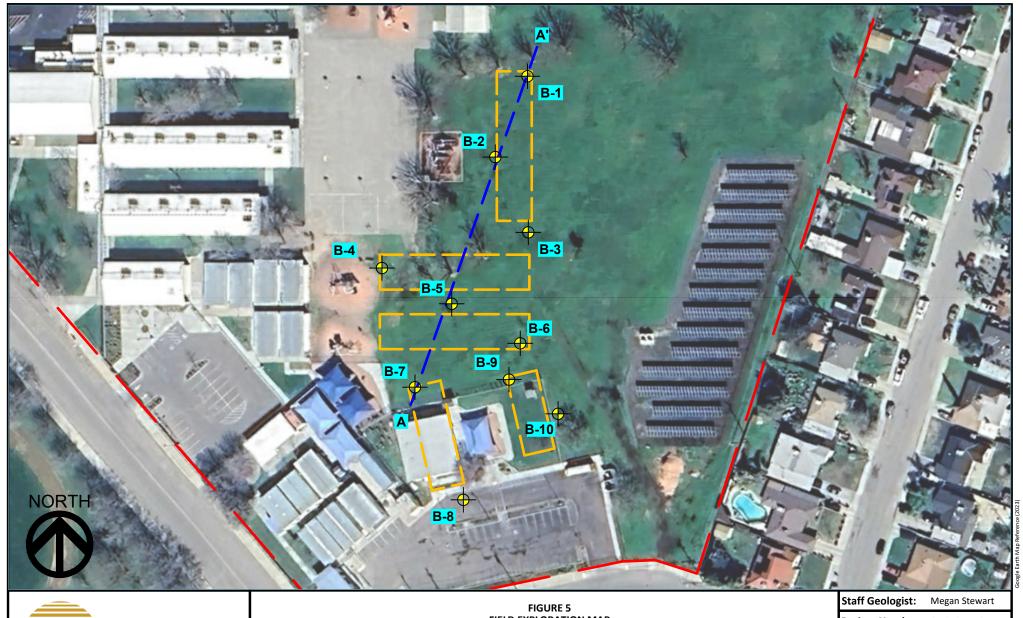




FIGURE 5 FIELD EXPLORATION MAP PROPOSED PS/TK/K CLASSROOM BUILDINGS AT BAILEY ELEMENTARY SCHOOL

Approximate Limits of the Subject Property

Approximate Area of

Cross Section A to A'

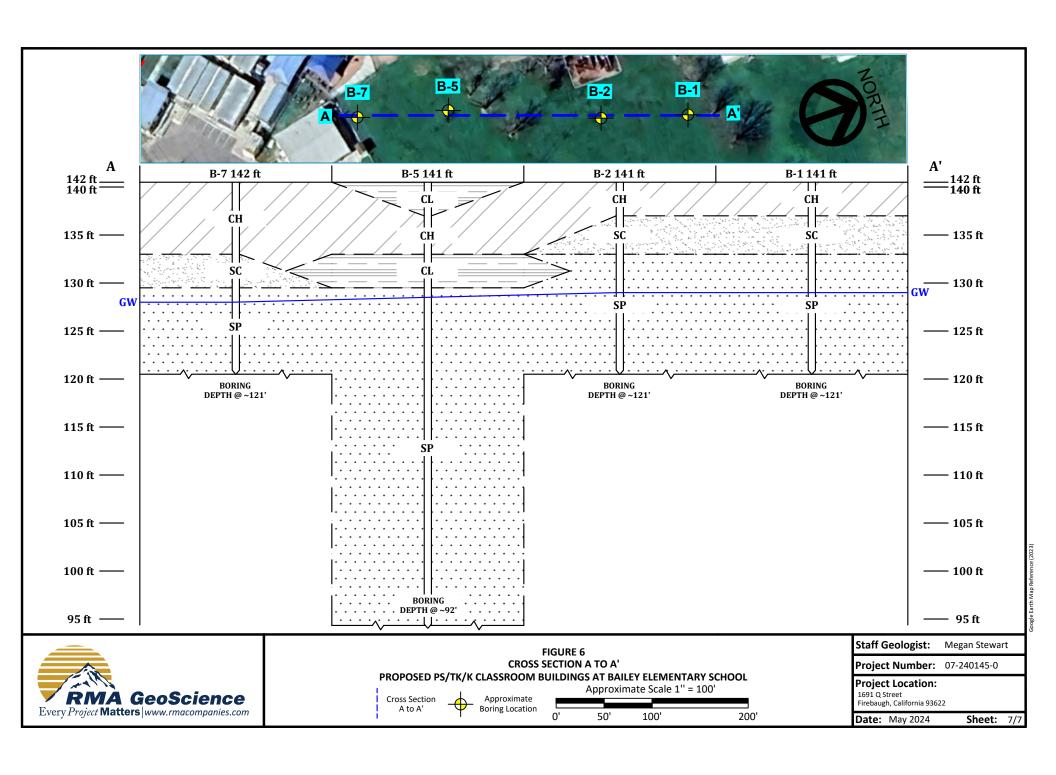
Approximate Boring Location

Approximate Scale 1" = 100'

50' 100' 200' Project Number: 07-240145-0

Project Location: 1691 Q Street Firebaugh, California 93622

Date: May 2024 Sheet: 6/7







APPENDIX A

FIELD INVESTIGATION



APPENDIX A

FIELD INVESTIGATION

A-1.00 FIELD EXPLORATION

A-1.01 Number of Borings

Our subsurface investigation consisted of excavating ten test borings with a CME-45 drill rig equipped with a 4-inch solid stem auger, or a 7-inch hollow stem auger, and a 140-pound auto-hammer to a maximum depth of approximately 50 feet below existing grade. The test borings were excavated on April 17 and 18, 2024.

A-1.02 Location of Borings

The approximate locations of the borings are shown on Figure 5, Boring Location Map. GPS coordinates indicated on the logs are based on information provided by Google Earth Pro.

A-1.03 Logging Borings

Boring logs were prepared by one of our staff and are included in this appendix. The logs contain factual information and interpretation of subsurface conditions between samples. The stratum indicated on the boring logs represents the approximate boundary between earth units and the transition may be gradual. The logs show subsurface conditions at the dates and locations indicated and may not be representative of subsurface conditions at other locations and times.

Identification of the soils encountered during the subsurface exploration was made using the field identification procedure of the Unified Soils Classification System (ASTM D2488). A legend defining the terms used in describing the relative compaction, consistency or firmness of the soil, and moisture level is provided on the following page. Bag, ring, or tube samples of the major earth units were obtained for laboratory inspection and testing.



Stiff

Hard

Very Stiff

I. SOIL STRENGTH/DENSITY

30-50

>50

BASED ON STANDARD PENETRATION TESTS

Compactness of sand Consistency of clay Penetration Resistance N Compactness Penetration Resistance N Consistency (blows/ft) (blows/ft) 0-4 Very Loose <2 Very Soft 4-10 Loose 2-4 Soft 10-30 Medium Dense 4-8 Medium Stiff

8-15

15-30

>30

N = Number of blows of 140 lb. weight falling 30 in. to drive 2-in OD sampler 1 ft. (corrected)

Dense

Very Dense

BASED ON RELATIVE COMPACTION

Compactness	of sand	Consistency of clay				
% Compaction	Compactness	% Compaction	Consistency			
<75	Loose	<80	Soft			
75-83	Medium Dense	80-85	Medium Stiff			
83-90	Dense	85-90	Stiff			
>90	Very Dense	>90	Very Stiff			

II. SOIL MOISTURE

Moisture	of sands	Moisture of clays			
% Moisture	Description	% Moisture	Description		
<5%	Dry	<12%	Dry		
5-12%	Moist	12-20%	Moist		
>12%	Very Moist, wet	>20%	Very Moist, wet		



	CORRES		IZin
	COB		
MITS	EL	COMPLE	n 3in
IZE L	GRAVEL	JH.	3,6810
SILES		COMPLE	U HaA
PARTICLE SIZE LIMITS	SAND	MINUM	HA-40 HA-10 U.S. STANDARD SIEVE SIZE
□	S	LINC	
	SILTORCIAY		Hts. 200

MAJO	R DIVISIONS		GROU SYMBO		TYPICAL NAMES
		CLEAN	000	GW	Well graded gravel, gravel-sand mixtures. little or no fines.
	GRAVELS	GRAVELS	0.0	GP	Poorly graded gravel or gravel-sand mixtures, little or no fines.
	(More than 50% of coarse fraction is LARGER than the No. 4 sleve size.	GRAVELS	0 0	GM	Sity gravels, gravel-sand-sit mixtures
COARSE GRAINED		WITH FINES (Appreciable ant. offines)	6/2	GC	Clayey gravels, gravel-sand-clay mixtures.
SOILS (More than 50% of material is LARGER		CLEAN		SW	Well graded sands, gravely sands, little or no fines.
than No. 200 a leve size)	SANDS	(Little or no fines)		SP	Poorly graded sands or gravelly sands, little or no fines.
	(More than 50% of coarse fraction is SMALLER than the No. 4 sleve size)	SANDS		SM	Sity sands, sand-sit mixtures.
		WITH FINES (Appreciable smount of fines)		SC	Clayey sands, sand-clay mixtures.
				ML	Inorganic sits and very fine sands, rock four sity or clayey fine-sands or clayey sits with slight plasticity
	SILTS AND			CL	Inorganic days of low to medium plasticity, gravelly clays, sandy days, sity days, lean clays.
FINE GRAINED				OL	Organic sits and organic sity clays of low plasticity.
SOLS (More than 50% of material is SMALLER				МН	Inorganic sits, micaceous or distamaceous fine sandy or sity sois, elastic sits.
than No. 200 sleve size)	SILTS AND			СН	Inorganic days of high plasticity, fat clays.
				ОН	Organic days of medium to high plasticity, organic sits.
Н	IIGHLY ORGANI	C SOILS		Pt	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: So its possessing characteristics of two groups are designated by combinations of group symbols.



Exploratory Boring Log

Boring No. B-1

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26 9544219 120 4456629 Uaiaht

Position:	3	6.8544	31°, -1	20.44566	62°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
-	R	20		26.5	100.3	СН		ALLUVIUM: black, SILTY CLAY, very moist, very stiff
5 —	R	19		13.1	123.4	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
10 —	s	9						Light gray brown, fine to coarse SAND, dry, loosewith interlayers of SILTY SAND
- -						SP		groundwater encountered at 12.5 feet, wet
15 —	S	9						gray
20 —	s	14						medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 12.5' 3. Boring backfilled with soil cuttings
-	- - -							
30 —								
35 —	- - -							
- -								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-2

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26 9542129 120 4457709 Uaiaht

3	6.8542	13°, -1	20.44577	70°			Drop Height: 30"
5	Sample	s	0	ity			Material Description
Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Dens (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
R	10		33.0	89.9	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
R	17		16.2	118.2	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
R	15		11.1	98.0			Light gray, fine to coarse SAND, moist, medium dense
	13		11.1	76.0	ÇΡ		groundwater encountered at 12.5 feet, wet
S	5				51		gray, loose
s	11						medium dense
							Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 12.5' 3. Boring backfilled with soil cuttings
	Sample Type	Sample (Hamiltonian Sample Sample Plane Sample R 10 R 17 R 15 S 5	Samples Padumes Padumes Padumes Padumes R Padumes Padumes	Samples July July	Samples January Samples January Samples January Janu	Samples Samp	Samples

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater

Page A-5



Exploratory Boring Log

Boring No. B-3

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.854004°, -120.445660° Drop Height: 30'

Geographic Position:	3	6.8540	04°, -1	20.44566	60°			Drop Height: 30"
	S	Sample	s	9 1	ity		0 =	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	nscs	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	11		30.5	93.4	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	25		12.1	127.2	SC		Gray brown, fine to coarse grained, CLAYEY SAND, very moist, medium dense
10 —	S	7						Light gray, fine to coarse SAND, moist, loose
- -		,				SP		groundwater encountered at 13 feet, wet
15 —	S	7						gray
20 —	s	10						medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
- -								
30 —								
35 —								
- -								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

Symbols:

Groundwater



Exploratory Boring Log

Boring No. B-4

Sheet 1 of 1

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographi Position:	c 3	6.8539	18°, -1	20.44617	79°			Drop Height: 30"
Depth (ft)	Sample Type	Blows (fl/swold)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	Material Description This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
10 — 15 — 20 — 25 — 30 — 35 —	Sample Sample Type	swold 16 16 11 3 3	Bulk Sample	26.1 29.5	Od. Ard 97.3 94.2	ML CH CL SP	Grap	units and the transition may be gradual. The log show subsurface conditions at the date and
-	- - -							

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-5

Sheet 1 of 2

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Hollow Stem Auger

Logged By: GJV Borehole Diameter: 7"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853779°, -120.445930° Drop Height: 30"

Position:	3	6.8537	79°, -1	20.44593	30°			Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- - -	R	24		15.9	101.5	CL		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	13		24.8	97.1	СН		Dark gray brown, SILTY CLAY, very moist, stiff
10 —	s	9				CL		Brown, fine SANDY CLAY, moist, stiff, with white mineralizationwith interlayers of SAND
-	-							Light gray, fine to coarse SAND, moist, loose
15 —	R	9		17.7	113.9			groundwater encountered at 13.5 feet, wet gray
20 —	s	7						
25 —	R	12		18.4	112.8	SP		medium denseheaving sands below 25 feet
30 —	s	10						
35 —	S	20						

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

npie

- Groundwater

T - Modified California Tube Sample

R - Modified California Ring Sample

- En

Symbols:



Exploratory Boring Log

Boring No. B-5

Sheet 2 of 2

Date Drilled: April 17th, 2024 Drilling Equipment: CME 45, Hollow Stem Auger

Logged By: GJV Borehole Diameter: 7"

Drive Weights: Location: See Boring Location Map 140 lbs. (Autohammer)

Geographic 36.853779° -120.445930° Dron Height

Position:	36	.85377	79°, -12	20.44593	80°			Drop Height: 30"
	Sa	amples	s	t t	ity		- c	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	SOSO	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
5 — 10 — 15 — 20 — 35 — 35 — 35 — — — — — — — — — — — —		22				SP		Notes: 1. Boring terminated at approximately 50' 2. Groundwater encountered at 13.5' 3. Boring backfilled with soil cuttings

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-6

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26.9526660 120.4456720 Uaiaht

Position:	3	6.8536	66°, -1	20.44567	72°			Drop Height: 30"
	S	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	nscs	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	9		32.2	87.4	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	18		18.9	111.0	CL		Black, SILTY CLAY, moist, very stiff, with white mineralization
10 —	s	11						Light gray brown, fine to coarse SAND, moist, medium dense
- -		11				SP		groundwater encountered at 13 feet, wet
15 —	S	11				51		gray
20 —	s	7						with interlayers of SILTY SAND, loose
25 —	-							Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
30 —								
35 —	-							
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample R - Modified California Ring Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-7

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853543°, -120.446068° Drop Height: 30"

Geographic Position:	3	6.8535	43°, -1	20.44606	68°			Drop Height: 30"
	S	Sample	s	9 7	ity		0 =	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- -	R	11		30.3	93.3	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	16		29.9	96.3			very stiff
10 —	R	16		24.1	98.6	SM		Light gray brown, fine to medium SILTY SAND, very moist, medium dense
_								groundwater encountered at 13 feet, wet
15 —	S	5				SP		Gray, fine to coarse SAND, wet, loose
20 —	S	7						Notes: 1. Boring terminated at approximately 21'
25 —								Groundwater encountered at 13' Boring backfilled with soil cuttings
30 —								
35 —								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:

 $\stackrel{\checkmark}{=}$

- Groundwater



Exploratory Boring Log

Boring No. B-8

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 26 9522429 120 4459059 Laight

Position:	3	36.853243°, -120.445895°						Drop Height: 30"
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
_			В			SP		3" AC over 6" AB FILL: light gray brown, fine to medium SAND, moist, medium
-	R	13		25.5	102.9		7	dense
5—	٦					СН		NATIVE: black, SILTY CLAY, very moist, stiff
-	R	12		26.0	94.9			
10 —	s					CL		Brown, fine SANDY CLAY, moist, stiff
	3	12						Light gray brown, fine to medium SAND, moist, medium dense
15 —								groundwater encountered at 13.5 feet, wet
-	S	9				SP		loose
_								
20 —	S	13						medium dense
_								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13.5'
25 —								Boring backfilled with soil cuttings
_								
30 —								
_								
35—								
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

- Bulk Sample

R - Modified California Ring Sample

T - Modified California Tube Sample

Symbols:

- Groundwater



Exploratory Boring Log

Boring No. B-9

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853570°, -120.445728° Drop Height: 30'

Position:	3	36.853570°, -120.445728°					Drop Height: 30"	
	5	Sample	s	0	ity			Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	NSCS	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
- - -	R	9		33.4	92.1	СН		ALLUVIUM: black, SILTY CLAY, very moist, stiff
5 —	R	18		26.5	101.0			very stiff
10 —	s	7				ML/SM		Gray brown, fine SANDY SILT/SILTY SAND, moist, medium stiff
15 —	s	8				 SP		Light gray, fine to medium SAND, wet below 13 feet, loose
20 —	s	11				Si		medium dense
25 —								Notes: 1. Boring terminated at approximately 21' 2. Groundwater encountered at 13' 3. Boring backfilled with soil cuttings
30 —	_ - -							
35—								
-								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

Bulk Sample

T - Modified California Tube Sample

Symbols:

<u>✓</u> - Groundwater



Exploratory Boring Log

Boring No. B-10

Sheet 1 of 1

Date Drilled: April 18th, 2024 Drilling Equipment: CME 45, Solid Stem Auger

Logged By: GJV Borehole Diameter: 4"

Location: See Boring Location Map Drive Weights: 140 lbs. (Autohammer)

Geographic 36.853478°, -120.445573° Drop Height: 30"

Geographic Position:	3	36.853478°, -120.445573°						Drop Height: 30"
		Sample	s	re It	sity		c 1	Material Description
Depth (ft)	Sample Type	Blows (blows/ft)	Bulk Sample	Moisture Content (%)	Dry Density (pcf)	nscs	Graphic Symbol	This log contains factual information and interpretation of the subsurface conditions between the samples. The stratum indicated on this log represent the approximate boundary between earth units and the transition may be gradual. The log show subsurface conditions at the date and location indicated, and may not be representative of subsurface conditions at other locations and times.
-	R	10		25.1	101.0	CL	- 4 0	REWORKED/FILL: brown, fine SANDY CLAY, moist, stiff
-		10		23.1	101.0	CH		NATIVE: black, SILTY CLAY, very moist, stiff
5 —	R	21		28.4	93.0	СН		very stiff
_						SM		Brown, fine to medium SILTY SAND, moist, medium dense
10 —	R	29		6.1	117.5			Light gray, fine to medium SAND, moist, medium dense
_								
15 —	s	11				SP	<u>V</u>	groundwater encountered at 14 feet, wet
-								
20 —	s	12						
_		13						Notes:
_								Boring terminated at approximately 21' Groundwater encountered at 14'
25 —								Boring backfilled with soil cuttings
_								
_								
30 —								
_								
35 —								
_								
_								

*Note

All blow counts associated with Modified California Sample are uncorrected. The sampler dimensions are as follows:

ID = 2.5"

OD = 3"

Sample Types:

S - SPT Sample

Bulk Sample

- Groundwater

T - Modified California Tube Sample

R - Modified California Ring Sample

Symbols:



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APPENDIX B

LABORATORY TESTS



APPENDIX B

B-1.00 LABORATORY TESTS

B-1.01 Moisture Determination

The moisture content of tube and ring samples obtained from the test borings was determined in accordance with ASTM D2216, the standard method for determining the water content of soil using a drying oven. The mass of material remaining after oven drying is used as the mass of the solid particles. The results of these tests are provided on the boring logs in Appendix A.

B-1.02 Density of Split-Barrel Samples

The densities of ring and tube samples, which were obtained using a split-barrel sampler, were determined in accordance with ASTM D2937. The results of these tests are provided on the boring logs in Appendix A.

B-1.03 Soluble Sulfates and Chlorides

Tests were performed in accordance with California Test Methods 417 and 422 on two near-surface soil samples obtained during the field exploration. These tests were performed by Dellavalle Laboratory, Inc. located in Fresno, California (see Table B1 for results).

B-1.04 Soil Reactivity (pH) and Minimum Electrical Resistivity

Two near-surface soil samples were tested for soil reactivity (pH) and minimum electrical resistivity using California Test Method 643 (see Table B1). The pH measurement determines the degree of acidity or alkalinity in the soils. The minimum electrical resistivity is used as an indicator of how corrosive the soil is relative to buried metallic items.

TABLE B1: SUMMARY OF CORROSIVITY TESTS

Sample Location	Soluble Sulfates (mg/kg)	Soluble Chlorides (mg/kg)	рН	Minimum Resistivity (ohm-cm)
B-1 @ 1' - 3'	4,640.0	1,560.0	7.23	990
B-8 @ 1' – 3'	1,560.0	72.5	7.38	1,820

B-1.05 Percent Passing #200 Sieve

Five soil samples were tested in accordance with ASTM D1140 to determine the percent passing the #200 sieve (see Table B2). This represents the amount of silt and clay that is present in the soil.

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TABLE B2: PERCENT PASSING #200 SIEVE TEST RESULTS

Sample Location	Dry Weight Before Wash (grams)	Dry Weight After Wash (grams)	Percent Passing #200 Sieve
B-1 @ 5.5'	267.7	173.7	35
B-2 @ 10.5'	270.2	259.6	4
B-4 @ 1' - 3'	252.9	39.1	85
B-7 @ 10.5'	242.3	207.6	14
B-10 @ 1' - 3'	240.5	55.6	77

B-1.06 Atterberg Limits

The liquid limit, plastic limit, and the plasticity index of two near-surface soil samples were determined using the standard test methods of ASTM D4318 (See Figures B1 and B2).

B-1.07 Expansion Index

Expansion index testing was performed on a representative near-surface sample of the on-site soils in accordance with the standard test methods of ASTM D4829. The results of this test are shown on Figure B3.

B-1.08 Direct Shear

Two 3-point direct shear tests were performed on representative near-surface samples of soil using the standard test method of ASTM D3080 (consolidated and drained). The shear tests were performed on a direct shear machine of the strain-controlled type. To simulate possible adverse field conditions, the samples were saturated prior to shearing. Three soil specimens were sheared at varying normal loads for the test and the results plotted to establish the angle of the internal friction and cohesion of the tested sample. The results of this test are shown on Figures B4 and B5.

B-1.09 One-Dimensional Consolidation Properties

The magnitude and rate of consolidation of soils obtained from the test borings, when it is restrained laterally and drained axially while subjected to incrementally applied controlled-stress loading, was determined using the standard test methods of ASTM D2435. The results of these tests are shown on Figures B6 and B7.

B-1.10 Resistance Value

One Resistance Value (R-Value) test was performed on representative samples of subgrade obtained from the planned paved areas using test methods outlined in ASTM D2844 (see Figure B8).



Figure B1 Laboratory Test Form | ASTM D4318

Plasticity Index (PI) of Soils

Project Number: 07-240145-0/02 Lab ID: 24-015873

Project Name: New Classroom Buildings at Bailey ES Date Tested: 4/29/2024

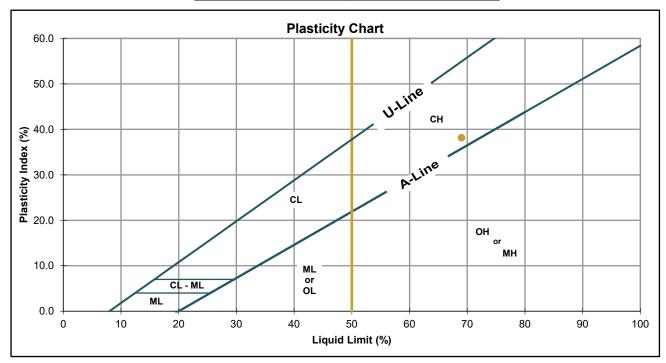
Sampled By: Gabe V. Tested By: Jason M.

Sample Date: 4/18/2024
Sample Location: B-2 @ 1ft - 3ft

Sample Description: Silty CLAY, high plasticity, black

Plasticity Index Results

Liquid Limit:	69
Average Plastic Limit :	31
Plasticity Index:	38



Liquid Limit Data Trial 1 Trial 2 Trial 3 Wet Weight (gm.) 16.58 17.02 17.64 Dry Weight (gm.) 13.45 13.65 13.94 Tare Weight (gm.) 8.67 8.75 8.79 Number of Blows 33 26 20 Moisture Content (%) 65.5 68.8 71.8

Plastic Limit Data Trial 1 Trial 2 Wet Weight (gm.) 25.11 26.3 Dry Weight (gm.) 23.86 24.75 Tare Weight (gm.) 19.73 19.82 Moisture Content (%) 30.3 31.4

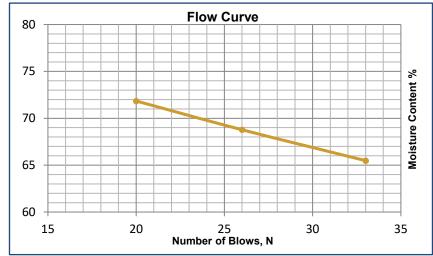




Figure B2 Laboratory Test Form | ASTM D4318

Plasticity Index (PI) of Soils

Project Number: 07-240145-0/02 Lab ID: 24-015890

Project Name: New Classroom Buildings at Bailey ES Date Tested: 4/29/2024

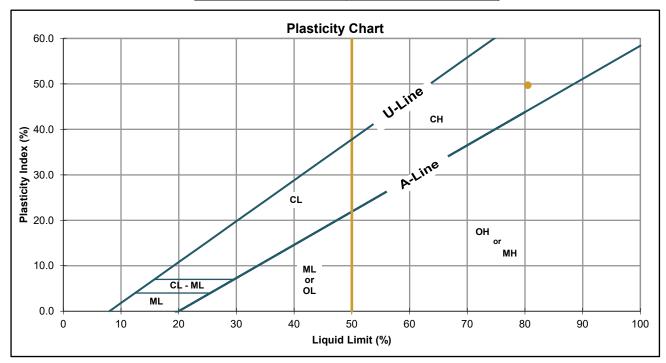
Sampled By: Gabe V. Tested By: Jason M.

Sample Date: 4/18/2024
Sample Location: B-9 @ 1ft - 3ft

Sample Description: Silty CLAY, high plasticity, black

Plasticity Index Results

Liquid Limit:	81
Average Plastic Limit :	31
Plasticity Index:	50



		quia Ellilli Di	atu
·	Trial 1	Trial 2	Trial 3
Wet Weight (gm.)	16.66	17.44	16.51
Dry Weight (gm.)		13.52	12.97
Tare Weight (gm.)	8.74	8.68	8.71
Number of Blows	33	24	19
Moisture Content (%)	77.6	81.0	83.1
		•	

Liquid Limit Data

	Plastic L	imit Data
	Trial 1	Trial 2
Wet Weight (gm.)	25.37	26.26
Dry Weight (gm.)	24.05	24.72
Tare Weight (gm.)	19.73	19.75
Moisture Content (%)	30.6	31.0

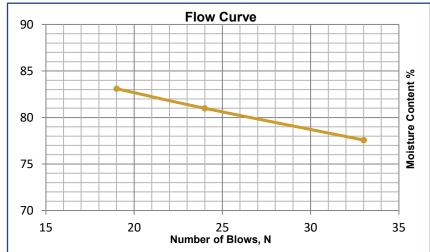




Figure B3

Laboratory Test Form | ASTM D4829 Expansion Index of Soils

Project Number:	07-240145-0/02	Lab ID:	24-015860
Project Name:	New Classroom Buildings at Bailey Elementary School	Date Sampled:	4/17/2024
Sampled By:	Gabe V.	Date Tested:	4/25/2024
Tested By:	Jason M.		
Sample Location:	B-5 @ 1ft - 3ft		

 $Sample\ Description:\ \underline{Silty\ CLAY\ with\ interlayers\ of\ Sandy\ SILT,\ fine\ grained,\ black}$

Expansion Readings

Initial Sample Height (in):	0.0176
Final Sample Height (in):	0.0699
Expansion (in):	0.0523

Classification of Expansive Soil

El	Potential Expansion
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

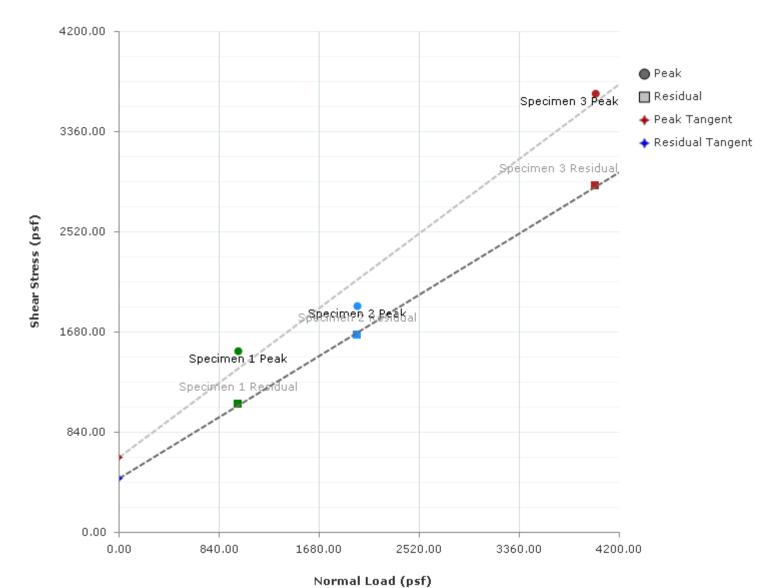
Expansion Index Data

Expansion Index Data					
Initial Set-Up Data		Final	Data		
Sample + Tare Weight (gm):	771.4	Sample + Tare Weight (gm):	792.4	_	
Tare Weight (gm):	365.6	Tare Weight (gm):	365.6	_	
Initial Gauge Reading (in):	0.0051	Final Gauge Reading (in):	0.0552	-	
	Moisture (Content And Density Data			
Wet Weight + Tare (gm):	100.0	Wet Weight + Tare (gm):	792.4	_	
Dry Weight + Tare (gm):	91.4	Dry Weight + Tare (gm):	700.6	_	
Tare Weight (gm):	0	Tare Weight (gm):	365.6	_	
Moisture Content:	9.4%	Moisture Content:	27.4%	_	
Initial Volume (ft³):	0.007345	Final Volume (ft³):	0.007653	_	
Remolded Wet Density (pcf):	121.8	Final Wet Density (pcf):	123.0	_	
Remolded Dry Density (pcf):	111.3	Final Dry Density (pcf):	96.5	_	
Degree of Saturation:	49	Assumed Specific Gravity:	2.7	_	



Figure B4a - Direct Shear Test Shear Stress Vs. Normal Stress

ASTM D3080



gent Results	C (psf)	Phi (°)
ak Tangent:	627.68	36.7

 Peak Tangent:
 627.68
 36.7

 Residual Tangent:
 452.46
 31.4



Figure B4b - Direct Shear Test

ASTM D3080

Project: New Classroom Buildings at Bailey Elementary School

Project Number: 07-240145-0/02 Sampling Date: 4/18/2024

Sample Number: 6
Sample Depth: 5.5 ft
Location: B-3 @ 5.5ft

Client Name: Firebaugh-Las Deltas Unified School District

Soil: Clayey SAND, fine to coarse grained, gray brown

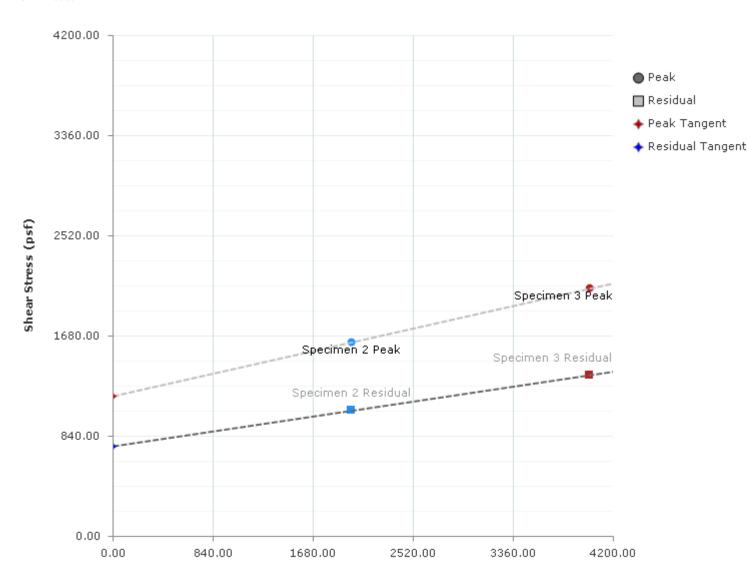
I.C			5	Specimen	Number			
Information Parameters	1	2	3	4	5	6	7	8
Liquid Limit:	0	0	0					
Plastic Limit:	0	0	0					
Specific Gravity:	2.66	2.66	2.66					
Specific Gravity Method:	ASSUMED	ASSUMED	ASSUMED					
Initial Parameters	1	2	3	4	5	6	7	8
Test Temperature (°C):	23.3	27.2	30.3					
Sample Shape:	ROUND	ROUND	ROUND					
Height (in):	1.0000	1.0000	1.0000					
Diameter (in):	2.4200	2.4200	2.4200					
Area (in²):	4.600	4.600	4.600					
Volume (in³):	4.5996	4.5996	4.5996					
Moisture (%):	12.8	11.4	13.1					
Dry Density (pcf):	116.7	119.9	116.0					
Wet Density (pcf):	131.7	133.6	131.2					
Saturation (%):	80.8	78.8	80.6					
Void Ratio:	0.423	0.385	0.431					
Porosity (%):	29.7	27.8	30.1					
Consolidation Parameters	1	2	3	4	5	6	7	8
Initial Reference Height (in):	1.0000	1.0000	1.0000					
Final Reference Height (in):	0.9893	0.9867	0.9804					
Height (in):	1.0000	0.9867	0.9804					
Final Parameters	1	2	3	4	5	6	7	8
Moisture Content (%)	16.9	14.3	14.8					
Dry Density (pcf):	116.7	121.5	118.4					
Wet Density (pcf):	136.4	138.9	135.9					
Saturation (%):	106.2	103.8	98.0					
Void Ratio:	0.423	0.366	0.403					
Porosity (%):	29.7	26.8	28.7					

(559) 228-9488 fax



Figure B5a - Direct Shear Test Shear Stress Vs. Normal Stress

ASTM D3080



Normal	Load	(pst)
--------	------	-------

Tangent Results	C (psf)	Phi (°)
Peak Tangent:	1176.21	12.7
Residual Tangent:	758.19	8.5



Figure B5b - Direct Shear Test

ASTM D3080

Project: New Classroom Buildings at Baliey Elementary School

Project Number: 07-240145-0/02 Sampling Date: 4/18/2024

Sample Number: 20
Sample Depth: 5.5 ft
Location: B-8 @ 5.5ft

Client Name: Firebaugh-Las Deltas Unified School District

Soil: Silty CLAY, gray brown

To Comment's an Demonstrate				Specimen	Number			
Information Parameters	1	2	3	4	5	6	7	8
Liquid Limit:	81	81	81					
Plastic Limit:	31	31	31					
Specific Gravity:	2.7	2.7	2.7					
Specific Gravity Method:	ASSUMED	ASSUMED	ASSUMED					
Initial Parameters	1	2	3	4	5	6	7	8
Test Temperature (°C):	31.5	31.4	32.7					
Sample Shape:	ROUND	ROUND	ROUND					
Height (in):	1.0000	1.0000	1.0000					
Diameter (in):	2.4200	2.4200	2.4200					
Area (in²):	4.600	4.600	4.600					
Volume (in³):	4.5996	4.5996	4.5996					
Moisture (%):	28.3	28.8	30.1					
Dry Density (pcf):	90.1	88.7	89.9					
Wet Density (pcf):	115.6	114.2	116.9					
Saturation (%):	87.8	86.3	92.9					
Void Ratio:	0.870	0.900	0.876					
Porosity (%):	46.5	47.4	46.7					
Consolidation Parameters	1	2	3	4	5	6	7	8
Initial Reference Height (in):	1.0000	1.0000	1.0000					
Final Reference Height (in):	0.9951	0.9884	0.9804					
Height (in):	0.9951	0.9884	0.9804					
Final Parameters	1	2	3	4	5	6	7	8
Moisture Content (%)	31.3	30.6	31.3					
Dry Density (pcf):	90.6	89.7	91.7					
Wet Density (pcf):	118.9	117.2	120.4					
Saturation (%):	98.2	94.2	100.8					
Void Ratio:	0.861	0.878	0.839					
Porosity (%):	46.3	46.8	45.6					



Figure B6a

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate

Project Number:	07-240145-0/02	Lab ID:	24-015879
Project Name:	New Classroom Buildings at Bailey ES	Date Sampled:	4/18/2024
Sampled By:	Gabe V.	Date Tested:	4/22/24 - 5/6/24
Tested By:	Jennifer K.		
Sample Location:	B-3 @ 5.5ft		
Sample Description:	Clayey SAND, fine to coarse grained, gray brow	'n	
Sample Preparation:	In-Situ Ring Sample		

Consolidation Test Data					
Initial Data		Final C)ata		
Initial Sample Height (in):	1.0000	Final Sample Height (in):	0.9748		
Intial Void Ratio:	0.24	Final Void Ratio:	0.21		
Initial Gauge Reading (in):	0.2474	Final Gauge Reading (in):	0.2726		
	Moisture Conten	t and Density Data			
Intial Wet Weight + Tare (gm):	205.30	Final Wet Weight + Tare (gm):	207.60		
Intial Dry Weight + Tare (gm):	197.00	Final Dry Weight + Tare (gm):	197.00		
Tare Weight (gm):	43.70	Tare Weight (gm):	43.70		
Initial Moisture Content:	5.41%	Final Moisture Content:	6.91%		
Initial Volume (ft ³):	0.002531	Final Volume (ft ³):	0.002468		
Initial Wet Density (pcf):	140.74	Final Wet Density (pcf):	146.43		
Initial Dry Density (pcf):	133.51	Final Dry Density (pcf):	136.96		
Initial Degree of Saturation:	55.8	Final Degree of Saturation:	81.1		

Moisture Condition	Load (psf)	Dial Reading (in)	Sample Height (in)	Axial Strain (%)
In Situ	0	0.2474	1.0000	0.00
	100	0.2475	0.9999	0.01
	250	0.2475	0.9999	0.01
Saturated	250	0.2474	1.0000	0.00
	500	0.2475	0.9999	0.01
	1000	0.2485	0.9989	0.11
	2000	0.2554	0.9920	0.80
	4000	0.2656	0.9818	1.82
	8000	0.2794	0.9680	3.20
	4000	0.2783	0.9691	3.09
	2000	0.2761	0.9713	2.87
	1000	0.2726	0.9748	2.52

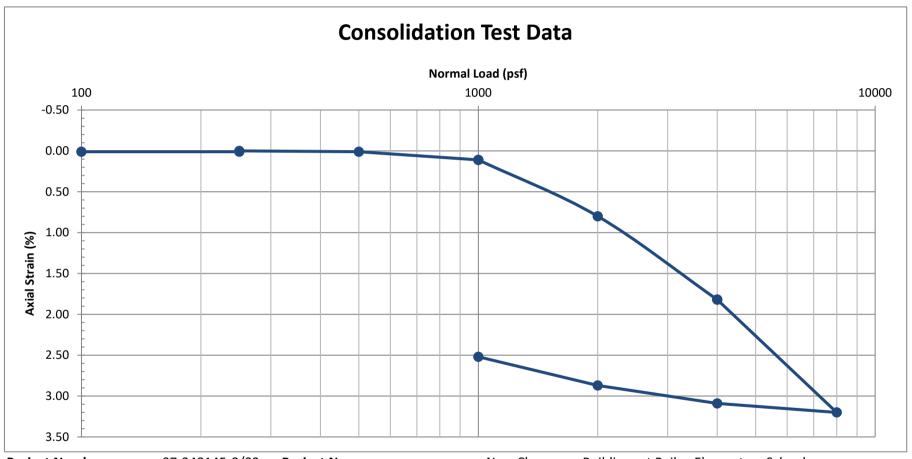
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(As required by ASTM E-329-23)



Figure B6b

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate



Project Number: Date Tested:

07-240145-0/02

Project Name: Lab ID: New Classroom Buildings at Bailey Elementary School

Date Tested: 4/22/24 - 5/6/24 Tested By: Jennifer K.

Description:

24-015879 **Sa** SC **Sa**

Sample Location: B-3 @ 5.5ft
Sampled By: Gabe V.

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Figure B7a

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate

Project Number:	07-240145-0/02	Lab ID:	24-015895	
Project Name:	New Classroom Buildings at Bailey ES	Date Sampled:	4/18/2024	
Sampled By:	Gabe V.	Date Tested:	4/22/24 - 5/6/24	
Tested By:	Jennifer K.			
Sample Location:	B-10 @ 5.5ft			
Sample Description:	Silty CLAY, black			
Sample Preparation:	In-Situ Ring Sample			

Consolidation Test Data

Consolidation Test Data						
Initial Data		Final D)ata			
Initial Sample Height (in):	1.0000	Final Sample Height (in):	0.9814			
Intial Void Ratio:	0.46	Final Void Ratio:	0.43			
Initial Gauge Reading (in):	0.2460	Final Gauge Reading (in):	0.2646			
	Moisture Conten	t and Density Data				
Intial Wet Weight + Tare (gm):	185.40	Final Wet Weight + Tare (gm):	192.40			
Intial Dry Weight + Tare (gm):	174.10	Final Dry Weight + Tare (gm):	174.10			
Tare Weight (gm):	43.70	Tare Weight (gm):	43.70			
Initial Moisture Content:	8.67%	Final Moisture Content:	14.03%			
Initial Volume (ft³):	0.002531	Final Volume (ft ³):	0.002484			
Initial Wet Density (pcf):	123.41	Final Wet Density (pcf):	131.96			
Initial Dry Density (pcf):	113.56	Final Dry Density (pcf):	115.72			
Initial Degree of Saturation:	48.4	Final Degree of Saturation:	83.1			

Moisture Condition	Load (psf)	Dial Reading (in)	Sample Height (in)	Axial Strain (%)
In Situ	0	0.2460	1.0000	0.00
	100	0.2460	1.0000	0.00
	250	0.2448	1.0012	-0.12
Saturated	250	0.2444	1.0016	-0.16
	500	0.2444	1.0016	-0.16
	1000	0.2444	1.0016	-0.16
	2000	0.2444	1.0016	-0.16
	4000	0.2574	0.9886	1.14
	8000	0.2907	0.9553	4.47
	4000	0.2819	0.9641	3.59
	2000	0.2691	0.9769	2.31
	1000	0.2646	0.9814	1.86

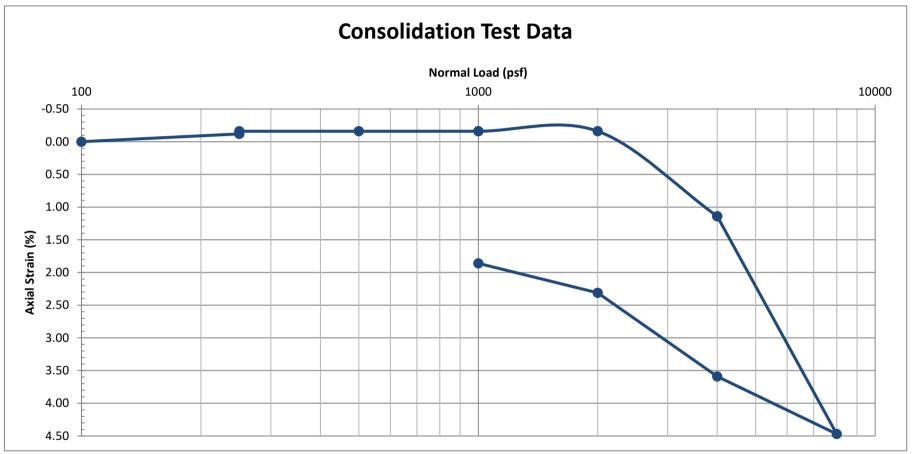
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(As required by ASTM E-329-23)



Figure B7b

Laboratory Test Form | ASTM D2435 Consolidation, No Time Rate



Project Number:

07-240145-0/02

Project Name:

New Clasroom Buildings at Bailey Elementary School

Date Tested:

4/22/24 - 5/6/24

Lab ID:

24-015895

Sample Location:

B-10 @ 5.5ft

Tested By:

Jennifer K.

Description:

CL

Sampled By:

Gabe V.



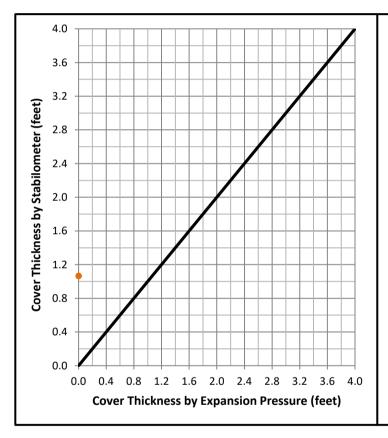
Figure B8 Laboratory Test Form | ASTM D2844

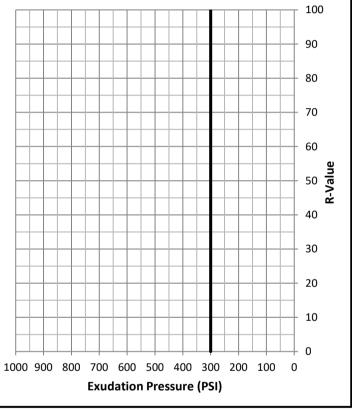
Resistance "R-Value" and Expansion Pressure of Compacted Soil

Project Number: 07-240145-0/02

New Classroom Buildings at Bailey ES Lab ID: Project Name: 24-015897 Sampled By: 4/18/2024 Gabe V. Date Sampled: Tested By: Jason M. Date Tested: 4/25/2024 Sample Location: RV-1 @ 0.5ft - 3ft Description: Silty CLAY, high plasticity, black

"R" Value at 300psi Exudation Pressure: < 5
"R" Value by Expansion Pressure: N/A





Specimen:	1	2	3
Exudation Pressure Load (lbs):			
Exudation Pressure (psi):			
Expansion * (0.0001 in):			
Expansion Pressure (psf):			
Stabilometer Value at 2000 lbs:		R-Value <	5
Displacement:		N-value >	3
Resistance "R" Value:			
"R" Value Corrected for Height:			
Percent Moisture at Test:			
Dry Density at Test (pcf):			





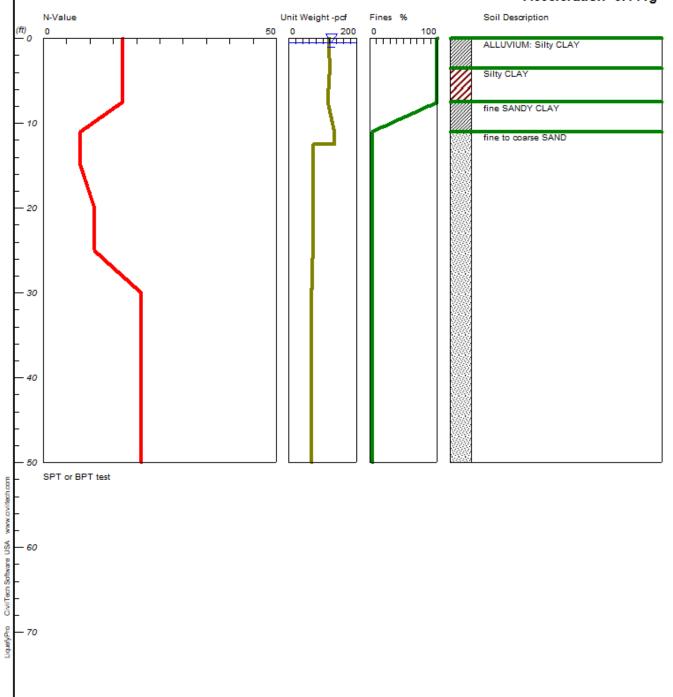
APPENDIX C

LIQUIFACTION AND SEISMIC SETTLEMENT ANALYSIS (Figures and Analysis Summary)

Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=0.5 ft Surface Elev.=141

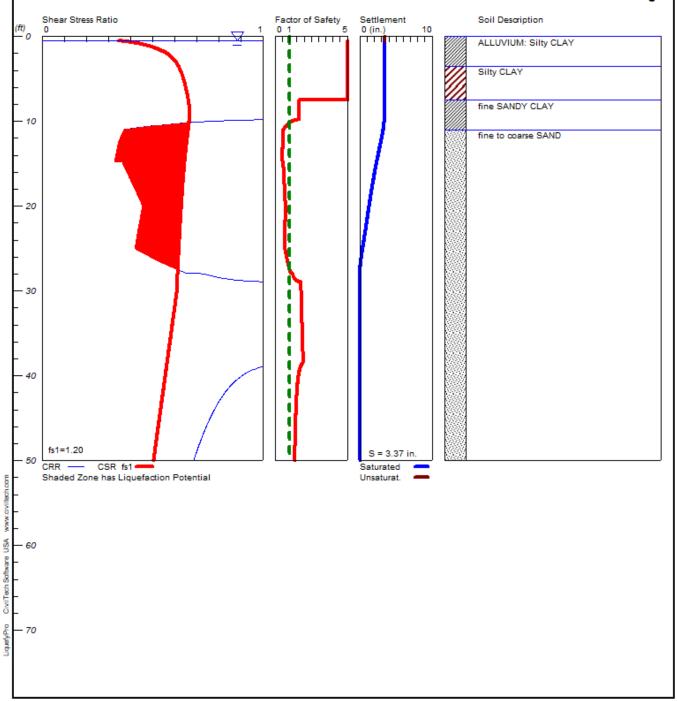
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=0.5 ft Surface Elev.=141

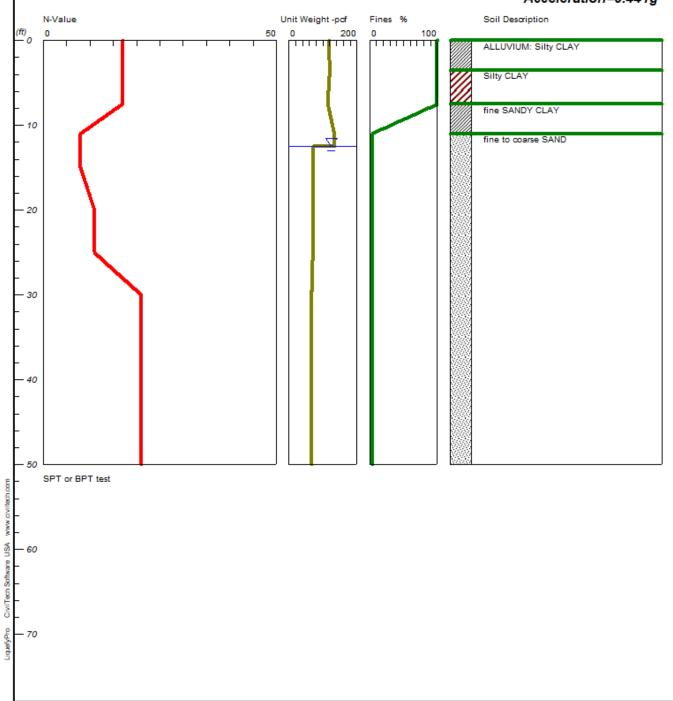
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=12.5 ft Surface Elev.=141

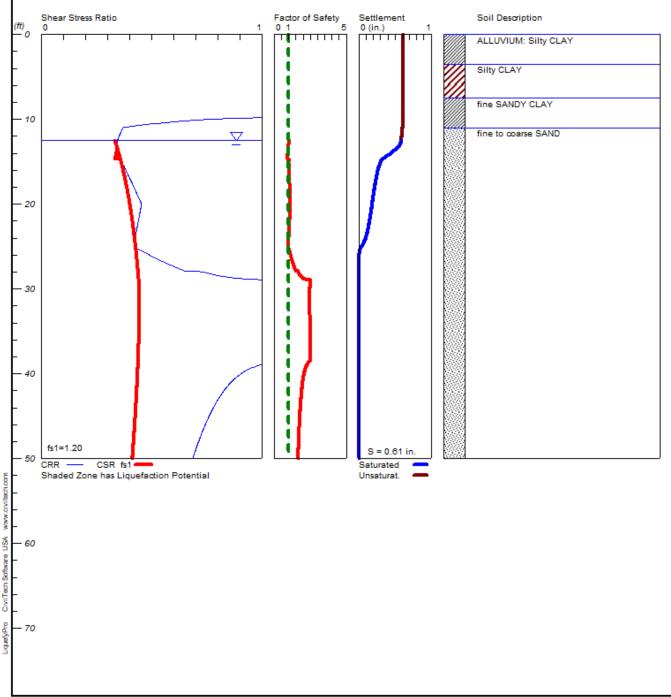
Magnitude=5.5 Acceleration=0.441g



Proposed Classroom Buildings at Bailey Elementary

Hole No.=B-5 Water Depth=12.5 ft Surface Elev.=141

Magnitude=5.5 Acceleration=0.441g



LIQUEFACTION ANALYSIS SUMMARY Copyright by CivilTech Software

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Font: Courier New, Regular, Size 8 is recommended for this report.

Licensed to , 6/27/2024 2:49:44 PM

Input File Name: C:\Users\Engineering\Desktop\07-240145-0.liq

Title: Proposed Classroom Buildings at Bailey Elementary

Subtitle: 07-240145-0

Surface Elev.=141

Hole No.=B-5

Depth of Hole= 50.00 ft

Water Table during Earthquake= 0.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration= 0.44 g

Earthquake Magnitude= 5.50

Input Data:

Surface Elev.=141

Hole No.=B-5

Depth of Hole=50.00 ft

Water Table during Earthquake= 0.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration=0.44 g

Earthquake Magnitude=5.50

No-Liquefiable Soils: Based on Analysis

- 1. SPT or BPT Calculation.
- 2. Settlement Analysis Method: Tokimatsu, M-correction
- 3. Fines Correction for Liquefaction: Stark/Olson et al.*
- 4. Fine Correction for Settlement: During Liquefaction*
- 5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.5

7. Borehole Diameter,

Cb=1

8. Sampling Method,

 $C_{S} = 1.2$

9. User request factor of safety (apply to CSR), User= 1.2 Plot one CSR curve (fs1=User)

10. Use Curve Smoothing: Yes*

* Recommended Options

In-Situ Test Data:

Depth SPT gamma Fines

ft pcf %

0.00 17.00 117.70 NoLiq 3.50 17.00 121.10 NoLiq

7.50 17.0	0 115.	00	NoL	iq	
11.00	8.00 134.	10	4.00		
15.00	8.00 134.	10	4.00		
20.00	11.00	133.	60	4.00	
25.00	11.00	133.	60	4.00	
30.00	21.00	130.	00	4.00	
35.00	21.00	130.	00	4.00	
40.00	21.00	130.	00	4.00	
45.00	21.00	130.	00	4.00	

Output Results:

Settlement of Saturated Sands=3.37 in.

Settlement of Unsaturated Sands=0.00 in.

Total Settlement of Saturated and Unsaturated Sands=3.37 in.

Differential Settlement=1.685 to 2.225 in.

```
Depth
          CRRm
                    CSRfs
                              F.S. S sat.
                                             S dry
                                                       S all
ft
                        in.
                    in.
                              in.
0.00 2.00 0.34 5.00 3.37 0.00 3.37
0.05 2.00 0.34 5.00 3.37 0.00 3.37
0.10 2.00 0.34 5.00 3.37 0.00 3.37
0.15 2.00 0.34 5.00 3.37 0.00 3.37
0.20 2.00 0.34 5.00 3.37 0.00 3.37
0.25 2.00 0.34 5.00 3.37 0.00 3.37
0.30 2.00 0.34 5.00 3.37 0.00 3.37
0.35 2.00 0.34 5.00 3.37 0.00 3.37
0.40 2.00 0.34 5.00 3.37 0.00 3.37
0.45 2.00 0.34 5.00 3.37 0.00 3.37
0.50 2.00 0.34 5.00 3.37 0.00 3.37
0.55 2.00 0.36 5.00 3.37 0.00 3.37
0.60 2.00 0.38 5.00 3.37 0.00 3.37
0.65 2.00 0.39 5.00 3.37 0.00 3.37
0.70 2.00 0.40 5.00 3.37 0.00 3.37
0.75 2.00 0.42 5.00 3.37 0.00 3.37
0.80 2.00 0.43 5.00 3.37 0.00 3.37
0.85 2.00 0.44 5.00 3.37 0.00 3.37
0.90 2.00 0.45 5.00 3.37 0.00 3.37
0.95 2.00 0.46 5.00 3.37 0.00 3.37
1.00 2.00 0.47 5.00 3.37 0.00 3.37
1.05 2.00 0.47 5.00 3.37 0.00 3.37
1.10 2.00 0.48 5.00 3.37 0.00 3.37
1.15 2.00 0.49 5.00 3.37 0.00 3.37
1.20 2.00 0.50 5.00 3.37 0.00 3.37
1.25 2.00 0.50 5.00 3.37 0.00 3.37
1.30 2.00 0.51 5.00 3.37 0.00 3.37
1.35 2.00 0.51 5.00 3.37 0.00 3.37
1.40 2.00 0.52 5.00 3.37 0.00 3.37
1.45 2.00 0.52 5.00 3.37 0.00 3.37
1.50 2.00 0.53 5.00 3.37 0.00 3.37
1.55 2.00 0.53 5.00 3.37 0.00 3.37
1.60 2.00 0.54 5.00 3.37 0.00 3.37
1.65 2.00 0.54 5.00 3.37 0.00 3.37
```

1.70 2.00 0.55 5.00 3.37 0.00 3.37 1.75 2.00 0.55 5.00 3.37 0.00 3.37 1.80 2.00 0.55 5.00 3.37 0.00 3.37 1.85 2.00 0.56 5.00 3.37 0.00 3.37 1.90 2.00 0.56 5.00 3.37 0.00 3.37 1.95 2.00 0.56 5.00 3.37 0.00 3.37 2.00 2.00 0.57 5.00 3.37 0.00 3.37 2.05 2.00 0.57 5.00 3.37 0.00 3.37 2.10 2.00 0.57 5.00 3.37 0.00 3.37 2.15 2.00 0.57 5.00 3.37 0.00 3.37 2.20 2.00 0.58 5.00 3.37 0.00 3.37 2.25 2.00 0.58 5.00 3.37 0.00 3.37 2.30 2.00 0.58 5.00 3.37 0.00 3.37 2.35 2.00 0.58 5.00 3.37 0.00 3.37 2.40 2.00 0.59 5.00 3.37 0.00 3.37 2.45 2.00 0.59 5.00 3.37 0.00 3.37 2.50 2.00 0.59 5.00 3.37 0.00 3.37 2.55 2.00 0.59 5.00 3.37 0.00 3.37 2.60 2.00 0.59 5.00 3.37 0.00 3.37 2.65 2.00 0.60 5.00 3.37 0.00 3.37 2.70 2.00 0.60 5.00 3.37 0.00 3.37 2.75 2.00 0.60 5.00 3.37 0.00 3.37 2.80 2.00 0.60 5.00 3.37 0.00 3.37 2.85 2.00 0.60 5.00 3.37 0.00 3.37 2.90 2.00 0.60 5.00 3.37 0.00 3.37 2.95 2.00 0.60 5.00 3.37 0.00 3.37 3.00 2.00 0.61 5.00 3.37 0.00 3.37 3.05 2.00 0.61 5.00 3.37 0.00 3.37 3.10 2.00 0.61 5.00 3.37 0.00 3.37 3.15 2.00 0.61 5.00 3.37 0.00 3.37 3.20 2.00 0.61 5.00 3.37 0.00 3.37 3.25 2.00 0.61 5.00 3.37 0.00 3.37 3.30 2.00 0.61 5.00 3.37 0.00 3.37 3.35 2.00 0.61 5.00 3.37 0.00 3.37 3.40 2.00 0.62 5.00 3.37 0.00 3.37 3.45 2.00 0.62 5.00 3.37 0.00 3.37 3.50 2.00 0.62 5.00 3.37 0.00 3.37 3.55 2.00 0.62 5.00 3.37 0.00 3.37 3.60 2.00 0.62 5.00 3.37 0.00 3.37 3.65 2.00 0.62 5.00 3.37 0.00 3.37 3.70 2.00 0.62 5.00 3.37 0.00 3.37 3.75 2.00 0.62 5.00 3.37 0.00 3.37 3.80 2.00 0.62 5.00 3.37 0.00 3.37 3.85 2.00 0.62 5.00 3.37 0.00 3.37 3.90 2.00 0.63 5.00 3.37 0.00 3.37 3.95 2.00 0.63 5.00 3.37 0.00 3.37 4.00 2.00 0.63 5.00 3.37 0.00 3.37 4.05 2.00 0.63 5.00 3.37 0.00 3.37 4.10 2.00 0.63 5.00 3.37 0.00 3.37 4.15 2.00 0.63 5.00 3.37 0.00 3.37 4.20 2.00 0.63 5.00 3.37 0.00 3.37 4.25 2.00 0.63 5.00 3.37 0.00 3.37 4.30 2.00 0.63 5.00 3.37 0.00 3.37 4.35 2.00 0.63 5.00 3.37 0.00 3.37 4.40 2.00 0.63 5.00 3.37 0.00 3.37 4.45 2.00 0.63 5.00 3.37 0.00 3.37 4.50 2.00 0.63 5.00 3.37 0.00 3.37 4.55 2.00 0.64 5.00 3.37 0.00 3.37 4.60 2.00 0.64 5.00 3.37 0.00 3.37 4.65 2.00 0.64 5.00 3.37 0.00 3.37 4.70 2.00 0.64 5.00 3.37 0.00 3.37 4.75 2.00 0.64 5.00 3.37 0.00 3.37 4.80 2.00 0.64 5.00 3.37 0.00 3.37 4.85 2.00 0.64 5.00 3.37 0.00 3.37 4.90 2.00 0.64 5.00 3.37 0.00 3.37 4.95 2.00 0.64 5.00 3.37 0.00 3.37 5.00 2.00 0.64 5.00 3.37 0.00 3.37 5.05 2.00 0.64 5.00 3.37 0.00 3.37 5.10 2.00 0.64 5.00 3.37 0.00 3.37 5.15 2.00 0.64 5.00 3.37 0.00 3.37 5.20 2.00 0.64 5.00 3.37 0.00 3.37 5.25 2.00 0.64 5.00 3.37 0.00 3.37 5.30 2.00 0.64 5.00 3.37 0.00 3.37 5.35 2.00 0.65 5.00 3.37 0.00 3.37 5.40 2.00 0.65 5.00 3.37 0.00 3.37 5.45 2.00 0.65 5.00 3.37 0.00 3.37 5.50 2.00 0.65 5.00 3.37 0.00 3.37 5.55 2.00 0.65 5.00 3.37 0.00 3.37 5.60 2.00 0.65 5.00 3.37 0.00 3.37 5.65 2.00 0.65 5.00 3.37 0.00 3.37 5.70 2.00 0.65 5.00 3.37 0.00 3.37 5.75 2.00 0.65 5.00 3.37 0.00 3.37 5.80 2.00 0.65 5.00 3.37 0.00 3.37 5.85 2.00 0.65 5.00 3.37 0.00 3.37 5.90 2.00 0.65 5.00 3.37 0.00 3.37 5.95 2.00 0.65 5.00 3.37 0.00 3.37 6.00 2.00 0.65 5.00 3.37 0.00 3.37 6.05 2.00 0.65 5.00 3.37 0.00 3.37 6.10 2.00 0.65 5.00 3.37 0.00 3.37 6.15 2.00 0.65 5.00 3.37 0.00 3.37 6.20 2.00 0.65 5.00 3.37 0.00 3.37 6.25 2.00 0.65 5.00 3.37 0.00 3.37 6.30 2.00 0.65 5.00 3.37 0.00 3.37 6.35 2.00 0.65 5.00 3.37 0.00 3.37 6.40 2.00 0.66 5.00 3.37 0.00 3.37 6.45 2.00 0.66 5.00 3.37 0.00 3.37 6.50 2.00 0.66 5.00 3.37 0.00 3.37 6.55 2.00 0.66 5.00 3.37 0.00 3.37 6.60 2.00 0.66 5.00 3.37 0.00 3.37 6.65 2.00 0.66 5.00 3.37 0.00 3.37 6.70 2.00 0.66 5.00 3.37 0.00 3.37 6.75 2.00 0.66 5.00 3.37 0.00 3.37 6.80 2.00 0.66 5.00 3.37 0.00 3.37 6.85 2.00 0.66 5.00 3.37 0.00 3.37 6.90 2.00 0.66 5.00 3.37 0.00 3.37 6.95 2.00 0.66 5.00 3.37 0.00 3.37 7.00 2.00 0.66 5.00 3.37 0.00 3.37 7.05 2.00 0.66 5.00 3.37 0.00 3.37 7.10 2.00 0.66 5.00 3.37 0.00 3.37 7.15 2.00 0.66 5.00 3.37 0.00 3.37 7.20 2.00 0.66 5.00 3.37 0.00 3.37 7.25 2.00 0.66 5.00 3.37 0.00 3.37 7.30 2.00 0.66 5.00 3.37 0.00 3.37 7.35 2.00 0.66 5.00 3.37 0.00 3.37 7.40 2.00 0.66 5.00 3.37 0.00 3.37 7.45 2.00 0.66 5.00 3.37 0.00 3.37 7.50 1.11 0.66 1.67 3.37 0.00 3.37 7.55 1.11 0.66 1.67 3.37 0.00 3.37 7.60 1.11 0.66 1.66 3.37 0.00 3.37 7.65 1.11 0.66 1.66 3.37 0.00 3.37 7.70 1.11 0.66 1.66 3.37 0.00 3.37 7.75 1.11 0.67 1.66 3.37 0.00 3.37 7.80 1.11 0.67 1.66 3.37 0.00 3.37 7.85 1.11 0.67 1.66 3.37 0.00 3.37 7.90 1.11 0.67 1.66 3.37 0.00 3.37 7.95 1.11 0.67 1.66 3.37 0.00 3.37 8.00 1.11 0.67 1.66 3.37 0.00 3.37 8.05 1.11 0.67 1.66 3.37 0.00 3.37 8.10 1.11 0.67 1.66 3.37 0.00 3.37 8.15 1.11 0.67 1.66 3.37 0.00 3.37 8.20 1.11 0.67 1.66 3.37 0.00 3.37 8.25 1.11 0.67 1.66 3.37 0.00 3.37 8.30 1.11 0.67 1.66 3.37 0.00 3.37 8.35 1.11 0.67 1.66 3.37 0.00 3.37 8.40 1.11 0.67 1.66 3.37 0.00 3.37 8.45 1.11 0.67 1.66 3.37 0.00 3.37 8.50 1.11 0.67 1.65 3.37 0.00 3.37 8.55 1.11 0.67 1.65 3.37 0.00 3.37 8.60 1.11 0.67 1.65 3.37 0.00 3.37 8.65 1.11 0.67 1.65 3.37 0.00 3.37 8.70 1.11 0.67 1.65 3.37 0.00 3.37 8.75 1.11 0.67 1.65 3.37 0.00 3.37 8.80 1.11 0.67 1.65 3.37 0.00 3.37 8.85 1.11 0.67 1.65 3.37 0.00 3.37 8.90 1.11 0.67 1.65 3.37 0.00 3.37 8.95 1.11 0.67 1.65 3.37 0.00 3.37 9.00 1.11 0.67 1.65 3.37 0.00 3.37 9.05 1.11 0.67 1.65 3.37 0.00 3.37 9.10 1.11 0.67 1.65 3.37 0.00 3.37 9.15 1.11 0.67 1.65 3.37 0.00 3.37 9.20 1.11 0.67 1.65 3.37 0.00 3.37 9.25 1.11 0.67 1.65 3.37 0.00 3.37 9.30 1.11 0.67 1.65 3.37 0.00 3.37 9.35 1.11 0.67 1.65 3.37 0.00 3.37 9.40 1.11 0.67 1.65 3.37 0.00 3.37 9.45 1.11 0.67 1.65 3.37 0.00 3.37 9.50 1.11 0.67 1.65 3.37 0.00 3.37 9.55 1.11 0.67 1.65 3.37 0.00 3.37 9.60 1.11 0.67 1.66 3.37 0.00 3.37 9.65 1.11 0.67 1.66 3.37 0.00 3.37 9.70 1.11 0.67 1.66 3.37 0.00 3.37 9.75 1.11 0.67 1.66 3.37 0.00 3.37 9.80 1.03 0.67 1.54 3.37 0.00 3.37 9.85 0.92 0.67 1.38 3.37 0.00 3.37 9.90 0.85 0.67 1.28 3.37 0.00 3.37 9.95 0.80 0.67 1.19 3.37 0.00 3.37 10.00 0.76 0.67 1.13 3.37 0.00 3.37 10.05 0.72 0.67 1.08 3.37 0.00 3.37 10.10 0.69 0.67 1.04 3.37 0.00 3.37 10.15 0.66 0.67 0.99* 3.37 0.00 3.37 10.20 0.64 0.67 0.96* 3.36 0.00 3.36 10.25 0.61 0.67 0.92* 3.36 0.00 3.36 10.30 0.59 0.67 0.89* 3.35 0.00 3.35 10.35 0.57 0.67 0.86* 3.35 0.00 3.35 10.40 0.55 0.67 0.83* 3.34 0.00 3.34 10.45 0.53 0.67 0.80* 3.34 0.00 3.34 10.50 0.52 0.67 0.78* 3.33 0.00 3.33 10.55 0.50 0.66 0.75* 3.32 0.00 3.32 10.60 0.48 0.66 0.73* 3.31 0.00 3.31 10.65 0.47 0.66 0.70* 3.30 0.00 3.30 10.70 0.45 0.66 0.68* 3.30 0.00 3.30 10.75 0.44 0.66 0.66* 3.29 0.00 3.29 10.80 0.42 0.66 0.64* 3.28 0.00 3.28 10.85 0.41 0.66 0.61* 3.27 0.00 3.27 10.90 0.39 0.66 0.59* 3.26 0.00 3.26 10.95 0.38 0.66 0.57* 3.25 0.00 3.25 11.00 0.37 0.66 0.56* 3.24 0.00 3.24 11.05 0.37 0.66 0.56* 3.22 0.00 3.22 3.21 0.00 3.21 11.10 0.37 0.66 0.56* 11.15 0.37 0.66 0.55* 3.20 0.00 3.20 11.20 0.37 0.66 0.55* 3.19 0.00 3.19 11.25 0.37 0.66 0.55* 3.18 0.00 3.18 11.30 0.36 0.66 0.55* 3.17 0.00 3.17 11.35 0.36 0.66 0.55* 3.16 0.00 3.16 11.40 0.36 0.66 0.55* 3.14 0.00 3.14 11.45 0.36 0.66 0.55* 3.13 0.00 3.13 11.50 0.36 0.66 0.55* 3.12 0.00 3.12 11.55 0.36 0.66 0.55* 3.11 0.00 3.11 11.60 0.36 0.66 0.54* 3.10 0.00 3.10 11.65 0.36 0.66 0.54* 3.09 0.00 3.09 11.70 0.36 0.66 0.54* 3.08 0.00 3.08 11.75 0.36 0.66 0.54* 3.06 0.00 3.06 11.80 0.36 0.66 0.54* 3.05 0.00 3.05 11.85 0.35 0.66 0.54* 3.04 0.00 3.04 11.90 0.35 0.66 0.54* 3.03 0.00 3.03 11.95 0.35 0.66 0.54* 3.02 0.00 3.02 12.00 0.35 0.66 0.54* 3.01 0.00 3.01 12.05 0.35 0.66 0.53* 2.99 0.00 2.99 12.10 2.98 0.00 2.98 0.35 0.66 0.53* 12.15 0.35 0.66 0.53* 2.97 0.00 2.97 12.20 0.35 0.66 0.53* 2.96 0.00 2.96 12.25 0.35 0.66 0.53* 2.95 0.00 2.95 12.30 0.35 0.66 0.53* 2.93 0.00 2.93 12.35 0.35 0.66 0.53* 2.92 0.00 2.92 12.40 0.35 0.66 0.53* 2.91 0.00 2.91 12.45 0.35 0.66 0.53* 2.90 0.00 2.90

10.50	0.24.0.66.0.72*	2 00 0 00 2 00
12.50	0.34 0.66 0.53*	2.89 0.00 2.89
12.55	0.34 0.66 0.53*	2.87 0.00 2.87
12.60	0.34 0.65 0.53*	2.86 0.00 2.86
12.65	0.34 0.65 0.52*	2.85 0.00 2.85
12.70	0.34 0.65 0.52*	2.84 0.00 2.84
12.75	0.34 0.65 0.52*	2.83 0.00 2.83
12.80	0.34 0.65 0.52*	2.81 0.00 2.81
12.85	0.34 0.65 0.52*	2.80 0.00 2.80
12.90	0.34 0.65 0.52*	2.79 0.00 2.79
12.95		2.78 0.00 2.78
	0.34 0.65 0.52*	
13.00	0.34 0.65 0.52*	2.77 0.00 2.77
13.05	0.34 0.65 0.52*	2.75 0.00 2.75
13.10	0.34 0.65 0.52*	2.74 0.00 2.74
13.15	0.34 0.65 0.52*	2.73 0.00 2.73
13.20	0.34 0.65 0.52*	2.72 0.00 2.72
13.25	0.34 0.65 0.52*	2.70 0.00 2.70
13.30		2.69 0.00 2.69
	0.34 0.65 0.52*	
13.35	0.34 0.65 0.52*	2.68 0.00 2.68
13.40	0.34 0.65 0.52*	2.67 0.00 2.67
13.45	0.34 0.65 0.52*	2.66 0.00 2.66
13.50	0.34 0.65 0.52*	2.64 0.00 2.64
13.55	0.34 0.65 0.52*	2.63 0.00 2.63
13.60	0.34 0.65 0.52*	2.62 0.00 2.62
13.65	0.34 0.65 0.52*	2.61 0.00 2.61
13.70	0.34 0.65 0.52*	2.59 0.00 2.59
13.75	0.34 0.65 0.52*	2.58 0.00 2.58
13.80	0.33 0.65 0.52*	2.57 0.00 2.57
13.85	0.33 0.65 0.51*	2.56 0.00 2.56
13.90	0.33 0.65 0.51*	2.54 0.00 2.54
13.95	0.33 0.65 0.51*	2.53 0.00 2.53
14.00	0.33 0.65 0.51*	2.52 0.00 2.52
14.05	0.33 0.65 0.51*	2.51 0.00 2.51
14.10	0.33 0.65 0.51*	2.50 0.00 2.50
14.15	0.33 0.65 0.51*	2.48 0.00 2.48
	0.33 0.65 0.51*	2.47 0.00 2.47
14.20		
14.25	0.33 0.65 0.51*	2.46 0.00 2.46
14.30	0.33 0.65 0.51*	2.45 0.00 2.45
14.35	0.33 0.65 0.51*	2.43 0.00 2.43
	0.33 0.65 0.51*	
14.40		2.42 0.00 2.42
14.45	0.33 0.65 0.51*	2.41 0.00 2.41
14.50	0.33 0.65 0.51*	2.40 0.00 2.40
14.55	0.33 0.65 0.51*	2.38 0.00 2.38
14.60	0.33 0.65 0.51*	2.37 0.00 2.37
14.65	0.33 0.65 0.51*	2.36 0.00 2.36
14.70	0.33 0.65 0.51*	2.35 0.00 2.35
14.75	0.33 0.65 0.51*	2.33 0.00 2.33
14.80	0.37 0.65 0.57*	2.32 0.00 2.32
14.85	0.37 0.65 0.57*	2.31 0.00 2.31
14.90	0.37 0.65 0.57*	2.30 0.00 2.30
14.95	0.36 0.65 0.56*	2.29 0.00 2.29
15.00	0.36 0.65 0.56*	2.28 0.00 2.28
15.05	0.37 0.65 0.57*	2.26 0.00 2.26
15.10	0.37 0.65 0.57*	2.25 0.00 2.25
15.15	0.37 0.65 0.57*	2.24 0.00 2.24
13.13	0.57 0.05 0.57	2.2 4 0.00 2.24

4 = 00	0.000.000.000	
15.20	0.37 0.65 0.57*	2.23 0.00 2.23
15.25	0.37 0.64 0.57*	2.22 0.00 2.22
15.30	0.37 0.64 0.57*	2.21 0.00 2.21
15.35	0.37 0.64 0.58*	2.20 0.00 2.20
15.40	0.37 0.64 0.58*	2.18 0.00 2.18
15.45	0.37 0.64 0.58*	2.17 0.00 2.17
15.50	0.37 0.64 0.58*	2.16 0.00 2.17
15.55	0.37 0.64 0.58*	2.15 0.00 2.15
15.60	0.38 0.64 0.58*	2.14 0.00 2.14
15.65	0.38 0.64 0.59*	2.13 0.00 2.13
15.70	0.38 0.64 0.59*	2.12 0.00 2.12
15.75	0.38 0.64 0.59*	2.11 0.00 2.11
15.80	0.38 0.64 0.59*	2.10 0.00 2.10
15.85	0.38 0.64 0.59*	2.08 0.00 2.08
15.90	0.38 0.64 0.59*	2.07 0.00 2.07
15.95	0.38 0.64 0.60*	2.06 0.00 2.06
16.00	0.38 0.64 0.60*	2.05 0.00 2.05
16.05	0.38 0.64 0.60*	2.04 0.00 2.04
16.10	0.39 0.64 0.60*	2.03 0.00 2.03
16.15	0.39 0.64 0.60*	2.02 0.00 2.02
16.20	0.39 0.64 0.60*	2.01 0.00 2.01
16.25	0.39 0.64 0.60*	2.00 0.00 2.00
16.30	0.39 0.64 0.61*	1.99 0.00 1.99
16.35	0.39 0.64 0.61*	1.98 0.00 1.98
16.40	0.39 0.64 0.61*	1.97 0.00 1.97
16.45	0.39 0.64 0.61*	1.96 0.00 1.96
16.50	0.39 0.64 0.61*	1.95 0.00 1.95
16.55	0.39 0.64 0.61*	1.93 0.00 1.93
16.60	0.39 0.64 0.62*	1.92 0.00 1.92
16.65	0.40 0.64 0.62*	1.91 0.00 1.91
16.70	0.40 0.64 0.62*	1.90 0.00 1.90
16.75	0.40 0.64 0.62*	1.89 0.00 1.89
16.80	0.40 0.64 0.62*	1.88 0.00 1.88
16.85	0.40 0.64 0.62*	1.87 0.00 1.87
	0.40 0.64 0.63*	1.86 0.00 1.86
16.90		
16.95	0.40 0.64 0.63*	1.85 0.00 1.85
17.00	0.40 0.64 0.63*	1.84 0.00 1.84
17.05	0.40 0.64 0.63*	1.83 0.00 1.83
17.10	0.40 0.64 0.63*	1.82 0.00 1.82
	0.40 0.64 0.63*	1.81 0.00 1.81
17.15		
17.20	0.41 0.64 0.63*	1.80 0.00 1.80
17.25	0.41 0.64 0.64*	1.79 0.00 1.79
17.30	0.41 0.64 0.64*	1.78 0.00 1.78
17.35	0.41 0.64 0.64*	1.77 0.00 1.77
17.40	0.41 0.64 0.64*	1.76 0.00 1.76
17.45	0.41 0.64 0.64*	1.75 0.00 1.75
17.50	0.41 0.64 0.64*	1.74 0.00 1.74
17.55	0.41 0.64 0.65*	1.73 0.00 1.73
17.60	0.41 0.64 0.65*	1.72 0.00 1.72
17.65	0.41 0.64 0.65*	1.71 0.00 1.72
17.70	0.41 0.64 0.65*	1.70 0.00 1.70
17.75	0.42 0.64 0.65*	1.69 0.00 1.69
17.80	0.42 0.64 0.65*	1.68 0.00 1.68
17.85	0.42 0.64 0.65*	1.67 0.00 1.67
1,.00	02 0.0 1 0.05	1.0, 0.00 1.0/

17.90	0.42 0.64 0.66*	1.66 0.00 1.66
17.95	0.42 0.64 0.66*	1.65 0.00 1.65
18.00	0.42 0.64 0.66*	1.64 0.00 1.64
18.05	0.42 0.64 0.66*	1.63 0.00 1.63
18.10	0.42 0.64 0.66*	1.62 0.00 1.62
18.15	0.42 0.64 0.66*	1.61 0.00 1.61
18.20	0.42 0.64 0.67*	1.60 0.00 1.60
18.25	0.42 0.64 0.67*	1.59 0.00 1.59
18.30	0.42 0.64 0.67*	1.58 0.00 1.58
18.35	0.43 0.64 0.67*	1.57 0.00 1.57
18.40	0.43 0.64 0.67*	1.56 0.00 1.56
18.45	0.43 0.64 0.67*	1.56 0.00 1.56
18.50	0.43 0.64 0.67*	1.55 0.00 1.55
18.55	0.43 0.64 0.68*	1.54 0.00 1.54
18.60	0.43 0.64 0.68*	1.53 0.00 1.53
18.65	0.43 0.63 0.68*	1.52 0.00 1.53
18.70	0.43 0.63 0.68*	1.51 0.00 1.51
18.75	0.43 0.63 0.68*	1.50 0.00 1.50
18.80	0.43 0.63 0.68*	1.49 0.00 1.49
18.85	0.43 0.63 0.69*	1.48 0.00 1.48
18.90	0.44 0.63 0.69*	1.47 0.00 1.47
18.95	0.44 0.63 0.69*	1.46 0.00 1.46
19.00	0.44 0.63 0.69*	1.45 0.00 1.45
19.05	0.44 0.63 0.69*	1.44 0.00 1.44
19.10	0.44 0.63 0.69*	1.44 0.00 1.44
19.15	0.44 0.63 0.69*	1.43 0.00 1.43
19.20	0.44 0.63 0.70*	1.42 0.00 1.42
19.25	0.44 0.63 0.70*	1.41 0.00 1.41
19.30	0.44 0.63 0.70*	1.40 0.00 1.40
19.35	0.44 0.63 0.70*	1.39 0.00 1.39
19.40	0.44 0.63 0.70*	1.38 0.00 1.38
19.45	0.45 0.63 0.70*	1.37 0.00 1.37
19.50	0.45 0.63 0.70*	1.36 0.00 1.36
19.55	0.45 0.63 0.71*	1.35 0.00 1.35
19.60	0.45 0.63 0.71*	1.35 0.00 1.35
19.65	0.45 0.63 0.71*	1.34 0.00 1.34
19.70	0.45 0.63 0.71*	1.33 0.00 1.33
19.75	0.45 0.63 0.71*	1.32 0.00 1.32
19.80	0.45 0.63 0.71*	1.31 0.00 1.31
19.85	0.45 0.63 0.71	1.30 0.00 1.31
19.90	0.45 0.63 0.72*	1.29 0.00 1.29
19.95	0.45 0.63 0.72*	1.28 0.00 1.28
20.00	0.45 0.63 0.72*	1.28 0.00 1.28
20.05	0.45 0.63 0.72*	1.27 0.00 1.27
20.10	0.45 0.63 0.72*	1.26 0.00 1.26
20.15	0.45 0.63 0.72*	1.25 0.00 1.25
20.20	0.45 0.63 0.72*	1.24 0.00 1.24
20.25	0.45 0.63 0.72*	1.23 0.00 1.24
20.30	0.45 0.63 0.72*	1.22 0.00 1.22
20.35	0.45 0.63 0.72*	1.22 0.00 1.22
20.40	0.45 0.63 0.72*	1.21 0.00 1.21
20.45	0.45 0.63 0.72*	1.20 0.00 1.20
20.50	0.45 0.63 0.72*	1.19 0.00 1.19
20.55	0.45 0.63 0.71*	1.18 0.00 1.18
		_

20.60	0.45.0.62.0.71*	1 17 0 00 1 17
20.60	0.45 0.63 0.71*	1.17 0.00 1.17
20.65	0.45 0.63 0.71*	1.16 0.00 1.16
20.70	0.45 0.63 0.71*	1.15 0.00 1.15
20.75	0.45 0.63 0.71*	1.15 0.00 1.15
20.80	0.45 0.63 0.71*	1.14 0.00 1.14
20.85	0.45 0.63 0.71*	1.13 0.00 1.13
20.90	0.45 0.63 0.71*	1.12 0.00 1.12
20.95	0.45 0.63 0.71*	1.11 0.00 1.11
21.00	0.45 0.63 0.71*	1.10 0.00 1.10
21.05	0.45 0.63 0.71*	1.09 0.00 1.10
21.10	0.45 0.63 0.71*	1.08 0.00 1.08
21.15	0.45 0.63 0.71*	1.07 0.00 1.07
21.20	0.45 0.63 0.71*	1.07 0.00 1.07
21.25	0.45 0.63 0.71*	1.06 0.00 1.06
21.30	0.44 0.63 0.71*	1.05 0.00 1.05
21.35	0.44 0.63 0.71*	1.04 0.00 1.04
21.40	0.44 0.63 0.71*	1.03 0.00 1.03
21.45	0.44 0.63 0.71*	1.02 0.00 1.02
21.50	0.44 0.63 0.71*	1.01 0.00 1.01
21.55	0.44 0.63 0.71*	1.00 0.00 1.00
21.60	0.44 0.63 0.70*	1.00 0.00 1.00
21.65	0.44 0.63 0.70*	0.99 0.00 0.99
21.70	0.44 0.63 0.70*	$0.98\ 0.00\ 0.98$
21.75	0.44 0.63 0.70*	0.97 0.00 0.97
21.80	0.44 0.63 0.70*	0.96 0.00 0.96
21.85	0.44 0.63 0.70*	0.95 0.00 0.95
21.90	0.44 0.63 0.70*	0.94 0.00 0.94
21.95	0.44 0.63 0.70*	0.93 0.00 0.93
22.00	0.44 0.63 0.70*	0.92 0.00 0.92
22.05	0.44 0.63 0.70*	0.91 0.00 0.91
22.10	0.44 0.63 0.70*	0.91 0.00 0.91
22.15	0.44 0.63 0.70*	0.90 0.00 0.90
22.20	0.44 0.63 0.70*	$0.89\ 0.00\ 0.89$
22.25	0.44 0.63 0.70*	$0.88\ 0.00\ 0.88$
22.30	0.44 0.63 0.70*	$0.87\ 0.00\ 0.87$
22.35	0.44 0.63 0.70*	$0.86\ 0.00\ 0.86$
22.40	0.44 0.63 0.70*	0.85 0.00 0.85
22.45	0.44 0.63 0.70*	0.84 0.00 0.84
22.50	0.44 0.63 0.70*	0.83 0.00 0.83
22.55	0.44 0.63 0.70*	0.82 0.00 0.82
22.60	0.44 0.63 0.70*	$0.82\ 0.00\ 0.82$
22.65	0.43 0.63 0.70*	0.81 0.00 0.81
22.70	0.43 0.63 0.70*	0.80 0.00 0.80
22.75	0.43 0.63 0.69*	0.79 0.00 0.79
22.80	0.43 0.63 0.69*	$0.78\ 0.00\ 0.78$
22.85	0.43 0.62 0.69*	$0.77\ 0.00\ 0.77$
22.90	0.43 0.62 0.69*	$0.76\ 0.00\ 0.76$
22.95	0.43 0.62 0.69*	0.75 0.00 0.75
23.00	0.43 0.62 0.69*	0.74 0.00 0.74
23.05	0.43 0.62 0.69*	0.73 0.00 0.73
23.10	0.43 0.62 0.69*	0.72 0.00 0.72
23.15	0.43 0.62 0.69*	0.71 0.00 0.71
23.20	0.43 0.62 0.69*	0.71 0.00 0.71
23.25	0.43 0.62 0.69*	0.70 0.00 0.70
23.23	0.15 0.02 0.07	0.70 0.00 0.70

22.20	0.42.0.62.0.60*	0.60.0.00.0.60
23.30	0.43 0.62 0.69*	0.69 0.00 0.69
23.35	0.43 0.62 0.69*	$0.68\ 0.00\ 0.68$
23.40	0.43 0.62 0.69*	$0.67\ 0.00\ 0.67$
23.45	0.43 0.62 0.69*	$0.66\ 0.00\ 0.66$
23.50	0.43 0.62 0.69*	0.65 0.00 0.65
23.55	0.43 0.62 0.69*	0.64 0.00 0.64
23.60	0.43 0.62 0.69*	0.63 0.00 0.63
23.65	0.43 0.62 0.69*	0.62 0.00 0.62
23.70	0.43 0.62 0.69*	0.61 0.00 0.61
23.75	0.43 0.62 0.69*	$0.60\ 0.00\ 0.60$
23.80	0.43 0.62 0.69*	0.59 0.00 0.59
23.85	0.43 0.62 0.69*	0.58 0.00 0.58
23.90	0.43 0.62 0.69*	0.58 0.00 0.58
23.95	0.43 0.62 0.68*	0.57 0.00 0.57
24.00	0.43 0.62 0.68*	0.56 0.00 0.56
24.05	0.43 0.62 0.68*	0.55 0.00 0.55
		0.54 0.00 0.54
24.10	0.43 0.62 0.68*	
24.15	0.43 0.62 0.68*	0.53 0.00 0.53
24.20	0.42 0.62 0.68*	0.52 0.00 0.52
24.25	0.42 0.62 0.68*	0.51 0.00 0.51
24.30	0.42 0.62 0.68*	0.50 0.00 0.50
24.35	0.42 0.62 0.68*	0.49 0.00 0.49
24.40	0.42 0.62 0.68*	0.48 0.00 0.48
24.45	0.42 0.62 0.68*	0.47 0.00 0.47
24.50	0.42 0.62 0.68*	0.46 0.00 0.47
24.55	0.42 0.62 0.68*	0.45 0.00 0.45
24.60	0.42 0.62 0.68*	0.44 0.00 0.44
24.65	0.42 0.62 0.68*	0.43 0.00 0.43
24.70	0.42 0.62 0.68*	0.42 0.00 0.42
24.75	0.42 0.62 0.68*	0.42 0.00 0.42
24.80	0.42 0.62 0.68*	0.41 0.00 0.41
24.85	0.42 0.62 0.68*	0.40 0.00 0.40
24.90	0.42 0.62 0.68*	0.39 0.00 0.39
24.95	0.42 0.62 0.68*	0.38 0.00 0.38
25.00	0.42 0.62 0.68*	0.37 0.00 0.37
25.05	0.42 0.62 0.68*	0.36 0.00 0.36
25.10	0.43 0.62 0.69*	0.35 0.00 0.35
25.15	0.43 0.62 0.69*	0.34 0.00 0.34
25.20	0.43 0.62 0.70*	0.33 0.00 0.33
25.25	0.44 0.62 0.71*	0.32 0.00 0.32
25.30	0.44 0.62 0.71*	0.31 0.00 0.31
25.35	0.44 0.62 0.72*	0.30 0.00 0.30
25.40	0.45 0.62 0.72*	0.29 0.00 0.29
25.45	0.45 0.62 0.72	0.29 0.00 0.29
25.50	0.45 0.62 0.73*	0.28 0.00 0.28
25.55	0.46 0.62 0.74*	0.27 0.00 0.27
25.60	0.46 0.62 0.75*	0.26 0.00 0.26
25.65	0.47 0.62 0.75*	0.25 0.00 0.25
25.70	0.47 0.62 0.76*	0.24 0.00 0.24
25.75	0.47 0.62 0.76*	0.23 0.00 0.23
25.80	0.48 0.62 0.77*	0.23 0.00 0.23
25.85	0.48 0.62 0.78*	0.22 0.00 0.22
25.90	0.48 0.62 0.78*	0.21 0.00 0.21
25.95	0.49 0.62 0.79*	0.20 0.00 0.21
43.73	U.47 U.U∠ U./Y	0.20 0.00 0.20

26.00	0.49 0.62 0.79*	0.19 0.00 0.19
26.05	0.49 0.62 0.80*	0.19 0.00 0.19
26.10	0.50 0.62 0.81*	0.18 0.00 0.18
26.15	0.50 0.62 0.81*	0.17 0.00 0.17
26.20	0.51 0.62 0.82*	0.16 0.00 0.16
26.25	0.51 0.62 0.82*	0.16 0.00 0.16
26.30	0.51 0.62 0.82*	0.15 0.00 0.15
26.35	0.52 0.62 0.84*	0.14 0.00 0.14
26.40	0.52 0.62 0.84*	0.14 0.00 0.14
26.45	0.52 0.62 0.85*	0.13 0.00 0.14
26.50	0.53 0.62 0.86*	0.12 0.00 0.13
26.55	0.53 0.62 0.86*	0.11 0.00 0.12
26.60	0.54 0.62 0.87*	0.11 0.00 0.11
26.65	0.54 0.62 0.88*	0.10 0.00 0.10
26.70	0.54 0.62 0.88*	0.09 0.00 0.09
26.75	0.55 0.62 0.89*	0.09 0.00 0.09
26.80	0.55 0.62 0.90*	0.08 0.00 0.08
26.85	0.56 0.62 0.90*	0.08 0.00 0.08
26.90	0.56 0.62 0.91*	0.07 0.00 0.07
26.95	0.57 0.62 0.92*	0.06 0.00 0.06
27.00	0.57 0.62 0.92*	0.06 0.00 0.06
27.05	0.57 0.62 0.93*	0.05 0.00 0.05
27.10	0.58 0.62 0.94*	0.04 0.00 0.04
27.15	0.58 0.62 0.95*	0.04 0.00 0.04
27.20	0.59 0.62 0.95*	0.03 0.00 0.03
27.25	0.59 0.62 0.96*	0.03 0.00 0.03
27.30	0.60 0.62 0.97*	0.03 0.00 0.03
27.35	0.60 0.62 0.98*	0.02 0.00 0.02
27.40	0.61 0.62 0.98*	0.02 0.00 0.02
27.45	0.61 0.62 0.99*	0.02 0.00 0.02
27.50	0.61 0.62 1.00*	0.01 0.00 0.01
27.55	0.62 0.62 1.01 0.01	$0.00\ 0.01$
27.60	0.62 0.62 1.01 0.01	$0.00\ 0.01$
27.65	0.63 0.62 1.02 0.01	0.00 0.01
27.70	0.63 0.62 1.03 0.01	0.00 0.01
27.75	0.64 0.62 1.04 0.01	
27.80	0.64 0.62 1.05 0.00	
27.85	0.65 0.62 1.06 0.00	
27.90	0.71 0.62 1.16 0.00	
27.95	0.72 0.61 1.17 0.00	
28.00	0.73 0.61 1.18 0.00	
28.05	0.74 0.61 1.20 0.00	
28.10	0.74 0.61 1.21 0.00	
28.15	0.75 0.61 1.22 0.00	
28.20	0.76 0.61 1.24 0.00	
28.25	0.77 0.61 1.25 0.00	
28.30	0.78 0.61 1.27 0.00	
28.35	0.79 0.61 1.27 0.00	
28.40	0.80 0.61 1.30 0.00	
28.45	0.81 0.61 1.31 0.00	
28.50	0.82 0.61 1.33 0.00	
28.55	0.83 0.61 1.35 0.00	
28.60	0.84 0.61 1.38 0.00	
28.65	0.86 0.61 1.40 0.00	0.00 0.00

28.70	$0.88\ 0.61$	1.43 0.00 0.00 0.00
28.75	0.90.0.61	1.46 0.00 0.00 0.00
28.80		1.51 0.00 0.00 0.00
28.85	0.96 0.61	1.57 0.00 0.00 0.00
28.90	1.02 0.61	1.66 0.00 0.00 0.00
28.95		1.80 0.00 0.00 0.00
29.00	1.11 0.61	1.80 0.00 0.00 0.00
29.05	1.11 0.61	1.80 0.00 0.00 0.00
29.10		1.80 0.00 0.00 0.00
29.15	1.11 0.61	1.80 0.00 0.00 0.00
29.20	1.11 0.61	1.80 0.00 0.00 0.00
29.25	1.11 0.61	1.80 0.00 0.00 0.00
29.30		1.80 0.00 0.00 0.00
29.35	1.11 0.61	1.80 0.00 0.00 0.00
29.40	1.11 0.61	1.80 0.00 0.00 0.00
29.45		1.80 0.00 0.00 0.00
29.50		1.81 0.00 0.00 0.00
29.55	1.11 0.61	1.81 0.00 0.00 0.00
29.60	1.11 0.61	1.81 0.00 0.00 0.00
29.65		1.81 0.00 0.00 0.00
29.70	1.11 0.61	1.81 0.00 0.00 0.00
29.75	1.11 0.61	1.81 0.00 0.00 0.00
29.80		1.81 0.00 0.00 0.00
29.85		1.81 0.00 0.00 0.00
29.90	1.11 0.61	1.81 0.00 0.00 0.00
29.95	1.11 0.61	1.81 0.00 0.00 0.00
30.00		1.81 0.00 0.00 0.00
30.05	1.11 0.61	1.81 0.00 0.00 0.00
30.10	1.11 0.61	1.81 0.00 0.00 0.00
30.15		1.81 0.00 0.00 0.00
30.20		1.81 0.00 0.00 0.00
30.25	1.11 0.61	1.81 0.00 0.00 0.00
30.30	1.11 0.61	1.81 0.00 0.00 0.00
30.35		1.81 0.00 0.00 0.00
30.40		1.81 0.00 0.00 0.00
30.45	1.11 0.61	1.81 0.00 0.00 0.00
30.50	1 11 0 61	1.82 0.00 0.00 0.00
		1.82 0.00 0.00 0.00
30.55		
30.60	1.11 0.61	1.82 0.00 0.00 0.00
30.65	1.11 0.61	1.82 0.00 0.00 0.00
30.70	1.11 0.61	1.82 0.00 0.00 0.00
30.75		1.82 0.00 0.00 0.00
30.80	1.11 0.61	1.82 0.00 0.00 0.00
30.85	1.11 0.61	1.82 0.00 0.00 0.00
30.90		1.82 0.00 0.00 0.00
30.95		1.82 0.00 0.00 0.00
31.00	1.11 0.61	1.82 0.00 0.00 0.00
31.05	1.11 0.61	1.82 0.00 0.00 0.00
31.10		1.82 0.00 0.00 0.00
31.15		1.83 0.00 0.00 0.00
31.20	1.11 0.61	1.83 0.00 0.00 0.00
31.25		1.83 0.00 0.00 0.00
		1.83 0.00 0.00 0.00
31.30		
31.35	1.11 0.60	1.83 0.00 0.00 0.00

31.45	31.40	1.11 0.60 1.83 0.00 0.00 0.00
31.55 1.11 0.60 1.83 0.00 0.00 0.00 31.60 1.11 0.60 1.83 0.00 0.00 0.00 31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.01 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.11 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.23 1.11 0.60 1.84 0.00 0.00 0.00 32.24 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.84 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.15 1.11 0.60 1.85 0.00 0.00 0.00 33.25 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.30 1.11 0.60 1.85 0.00 0.00 0.00 33.31 1.10 0.60 1.85 0.00 0.00 0.00 33.35 1.11 0.60 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.38 1.11 0.59 1.86 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.39 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	31.45	1.11 0.60 1.83 0.00 0.00 0.00
31.60	31.50	1.11 0.60 1.83 0.00 0.00 0.00
31.65 1.11 0.60 1.83 0.00 0.00 0.00 31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.10 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.76 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00	31.55	1.11 0.60 1.83 0.00 0.00 0.00
31.70 1.11 0.60 1.83 0.00 0.00 0.00 31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.01 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.36 1.11 0.60 1.85 0.00 0.00 0.00 32.35 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 <td>31.60</td> <td>1.11 0.60 1.83 0.00 0.00 0.00</td>	31.60	1.11 0.60 1.83 0.00 0.00 0.00
31.75 1.11 0.60 1.84 0.00 0.00 0.00 31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.060 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.33 1.11 0.60 1.84 0.00 0.00 0.00 32.34 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00	31.65	1.11 0.60 1.83 0.00 0.00 0.00
31.80 1.11 0.60 1.84 0.00 0.00 0.00 31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.21 1.11 0.60 1.84 0.00 0.00 0.00 32.22 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.32 1.11 0.60 1.84 0.00 0.00 0.00 32.33 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.10 0.60 1.85 0.00 0.00 0.00	31.70	1.11 0.60 1.83 0.00 0.00 0.00
31.85 1.11 0.60 1.84 0.00 0.00 0.00 31.90 1.11 0.60 1.84 0.00 0.00 0.00 31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.060 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.74 1.10 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.86 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00	31.75	1.11 0.60 1.84 0.00 0.00 0.00
31.90 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.31 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.060 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.41 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 <td>31.80</td> <td>1.11 0.60 1.84 0.00 0.00 0.00</td>	31.80	1.11 0.60 1.84 0.00 0.00 0.00
31.95 1.11 0.60 1.84 0.00 0.00 0.00 32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.59 1.86 0.00 0.00 0.00 <td>31.85</td> <td>1.11 0.60 1.84 0.00 0.00 0.00</td>	31.85	1.11 0.60 1.84 0.00 0.00 0.00
32.00 1.11 0.60 1.84 0.00 0.00 0.00 32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00	31.90	1.11 0.60 1.84 0.00 0.00 0.00
32.05 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.10 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.10 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.10 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00	31.95	1.11 0.60 1.84 0.00 0.00 0.00
32.10 1.11 0.60 1.84 0.00 0.00 0.00 32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.11 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.21 1.10 0.60 1.85 0.00 0.00 0.00 33.22 1.11 0.50 1.86 0.00 0.00 0.00 33.30 1.11 0.60 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00	32.00	1.11 0.60 1.84 0.00 0.00 0.00
32.15 1.11 0.60 1.84 0.00 0.00 0.00 32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.51 1.11 0.60 1.85 0.00 0.00 0.00 32.52 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.50 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00	32.05	1.11 0.60 1.84 0.00 0.00 0.00
32.20 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.01 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00	32.10	1.11 0.60 1.84 0.00 0.00 0.00
32.25 1.11 0.60 1.84 0.00 0.00 0.00 32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.71 1.11 0.60 1.85 0.00 0.00 0.00 32.72 1.11 0.60 1.85 0.00 0.00 0.00 32.73 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.10 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00	32.15	1.11 0.60 1.84 0.00 0.00 0.00
32.30 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.82 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.060 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.050 1.86 0.00 0.00 0.00 33.15 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.10.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.87 0.00 0.00 0.00	32.20	1.11 0.60 1.84 0.00 0.00 0.00
32.35 1.11 0.60 1.84 0.00 0.00 0.00 32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.10 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.87 0.00 0.00 0.00	32.25	1.11 0.60 1.84 0.00 0.00 0.00
32.40 1.11 0.60 1.85 0.00 0.00 0.00 32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.81 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.21 1.10 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.10 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00	32.30	1.11 0.60 1.84 0.00 0.00 0.00
32.45 1.11 0.60 1.85 0.00 0.00 0.00 32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.22 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.10 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.71 1.10 0.59 1.87 0.00 0.00 0.00	32.35	1.11 0.60 1.84 0.00 0.00 0.00
32.50 1.11 0.60 1.85 0.00 0.00 0.00 32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.91 1.11 0.60 1.85 0.00 0.00 0.00 32.92 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.60 1.86 0.00 0.00 0.00 33.25 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.10 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.10 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00	32.40	1.11 0.60 1.85 0.00 0.00 0.00
32.55 1.11 0.60 1.85 0.00 0.00 0.00 32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.85 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.60 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.41 1.59 1.86 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.85 1.11 0.59 1.87 0.00 0.00 0.00	32.45	1.11 0.60 1.85 0.00 0.00 0.00
32.60 1.11 0.60 1.85 0.00 0.00 0.00 32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.87 0.00 0.00 0.00 33.37 1.11 0.59 1.87 0.00 0.00 0.00 33.65 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.90 1.11 0.59 1.87 0.00 0.00 0.00	32.50	1.11 0.60 1.85 0.00 0.00 0.00
32.65 1.11 0.60 1.85 0.00 0.00 0.00 32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.32 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.55 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	32.55	1.11 0.60 1.85 0.00 0.00 0.00
32.70 1.11 0.60 1.85 0.00 0.00 0.00 32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00	32.60	1.11 0.60 1.85 0.00 0.00 0.00
32.75 1.11 0.60 1.85 0.00 0.00 0.00 32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.11 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.37 1.11 0.59 1.86 0.00 0.00 0.00 33.55 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00	32.65	1.11 0.60 1.85 0.00 0.00 0.00
32.80 1.11 0.60 1.85 0.00 0.00 0.00 32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.36 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.65 1.11 0.59 1.87 0.00 0.00 0.00 33.70 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00	32.70	1.11 0.60 1.85 0.00 0.00 0.00
32.85 1.11 0.60 1.85 0.00 0.00 0.00 32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.05 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.25 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.55 1.11 0.59 1.86 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	32.75	1.11 0.60 1.85 0.00 0.00 0.00
32.90 1.11 0.60 1.85 0.00 0.00 0.00 32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.05 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.50 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.65 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.85 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 34.00 1.11 0.59 1.87 0.0	32.80	1.11 0.60 1.85 0.00 0.00 0.00
32.95 1.11 0.60 1.85 0.00 0.00 0.00 33.00 1.11 0.60 1.86 0.00 0.00 0.00 33.05 1.11 0.60 1.86 0.00 0.00 0.00 33.10 1.11 0.60 1.86 0.00 0.00 0.00 33.15 1.11 0.60 1.86 0.00 0.00 0.00 33.20 1.11 0.59 1.86 0.00 0.00 0.00 33.31 1.11 0.59 1.86 0.00 0.00 0.00 33.30 1.11 0.59 1.86 0.00 0.00 0.00 33.35 1.11 0.59 1.86 0.00 0.00 0.00 33.40 1.11 0.59 1.86 0.00 0.00 0.00 33.45 1.11 0.59 1.86 0.00 0.00 0.00 33.50 1.11 0.59 1.86 0.00 0.00 0.00 33.51 1.11 0.59 1.87 0.00 0.00 0.00 33.60 1.11 0.59 1.87 0.00 0.00 0.00 33.75 1.11 0.59 1.87 0.00 0.00 0.00 33.80 1.11 0.59 1.87 0.00 0.00 0.00 33.81 1.11 0.59 1.87 0.00 0.00 0.00 33.92 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00 33.95 1.11 0.59 1.87 0.00 0.00 0.00	32.85	1.11 0.60 1.85 0.00 0.00 0.00
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	34.05	1.11 0.59 1.87 0.00 0.00 0.00

34.10	1.11 0.59 1.87 0.00 0.00 0.00
34.15	1.11 0.59 1.87 0.00 0.00 0.00
34.20	1.11 0.59 1.88 0.00 0.00 0.00
34.25	1.11 0.59 1.88 0.00 0.00 0.00
34.30	1.11 0.59 1.88 0.00 0.00 0.00
34.35	1.11 0.59 1.88 0.00 0.00 0.00
34.40	1.11 0.59 1.88 0.00 0.00 0.00
34.45	1.11 0.59 1.88 0.00 0.00 0.00
34.50	1.11 0.59 1.88 0.00 0.00 0.00
	1.11 0.59 1.88 0.00 0.00 0.00
34.55	
34.60	1.11 0.59 1.88 0.00 0.00 0.00
34.65	1.11 0.59 1.88 0.00 0.00 0.00
34.70	1.11 0.59 1.88 0.00 0.00 0.00
34.75	1.11 0.59 1.88 0.00 0.00 0.00
34.80	1.11 0.59 1.89 0.00 0.00 0.00
34.85	1.11 0.59 1.89 0.00 0.00 0.00
34.90	1.11 0.59 1.89 0.00 0.00 0.00
34.95	1.11 0.59 1.89 0.00 0.00 0.00
35.00	1.11 0.59 1.89 0.00 0.00 0.00
35.05	1.11 0.59 1.89 0.00 0.00 0.00
35.10	1.11 0.58 1.89 0.00 0.00 0.00
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35.30	1.11 0.58 1.89 0.00 0.00 0.00
35.35	1.11 0.58 1.89 0.00 0.00 0.00
35.40	1.11 0.58 1.90 0.00 0.00 0.00
35.45	1.11 0.58 1.90 0.00 0.00 0.00
35.50	1.11 0.58 1.90 0.00 0.00 0.00
35.55	1.11 0.58 1.90 0.00 0.00 0.00
35.60	1.11 0.58 1.90 0.00 0.00 0.00
35.65	1.11 0.58 1.90 0.00 0.00 0.00
35.70	1.11 0.58 1.90 0.00 0.00 0.00
35.75	1.11 0.58 1.90 0.00 0.00 0.00
35.80	1.11 0.58 1.90 0.00 0.00 0.00
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35.85	
35.90	1.11 0.58 1.90 0.00 0.00 0.00
35.95	1.11 0.58 1.91 0.00 0.00 0.00
36.00	1.11 0.58 1.91 0.00 0.00 0.00
36.05	1.11 0.58 1.91 0.00 0.00 0.00
36.10	1.11 0.58 1.91 0.00 0.00 0.00
36.15	1.11 0.58 1.91 0.00 0.00 0.00
36.20	1.11 0.58 1.91 0.00 0.00 0.00
36.25	1.11 0.58 1.91 0.00 0.00 0.00
36.30	1.11 0.58 1.91 0.00 0.00 0.00
36.35	1.11 0.58 1.91 0.00 0.00 0.00
36.40	1.11 0.58 1.91 0.00 0.00 0.00
36.45	1.11 0.58 1.91 0.00 0.00 0.00
36.50	1.11 0.58 1.91 0.00 0.00 0.00
	1.11 0.58 1.91 0.00 0.00 0.00
36.55	
36.60	1.11 0.58 1.92 0.00 0.00 0.00
36.65	1.11 0.58 1.92 0.00 0.00 0.00
36.70	1.11 0.58 1.92 0.00 0.00 0.00
36.75	1.11 0.58 1.92 0.00 0.00 0.00
50.15	1.11 0.50 1.72 0.00 0.00 0.00

36.80	1.11 0.58 1.92 0.00 0.00 0.00
36.85	1.11 0.58 1.92 0.00 0.00 0.00
36.90	1.11 0.58 1.92 0.00 0.00 0.00
36.95	1.11 0.58 1.92 0.00 0.00 0.00
37.00	1.11 0.57 1.92 0.00 0.00 0.00
37.05	1.11 0.57 1.92 0.00 0.00 0.00
37.10	1.11 0.57 1.93 0.00 0.00 0.00
37.15	1.11 0.57 1.93 0.00 0.00 0.00
37.20	1.11 0.57 1.93 0.00 0.00 0.00
37.25	1.11 0.57 1.94 0.00 0.00 0.00
37.30	1.11 0.57 1.94 0.00 0.00 0.00
37.35	1.11 0.57 1.94 0.00 0.00 0.00
37.40	1.11 0.57 1.94 0.00 0.00 0.00
37.45	1.11 0.57 1.94 0.00 0.00 0.00
37.50	1.11 0.57 1.94 0.00 0.00 0.00
37.55	1.11 0.57 1.94 0.00 0.00 0.00
37.60	1.11 0.57 1.94 0.00 0.00 0.00
37.65	1.11 0.57 1.94 0.00 0.00 0.00
37.70	1.11 0.57 1.95 0.00 0.00 0.00
37.75	1.11 0.57 1.95 0.00 0.00 0.00
37.80	1.11 0.57 1.95 0.00 0.00 0.00
37.85	1.11 0.57 1.95 0.00 0.00 0.00
37.90	1.11 0.57 1.95 0.00 0.00 0.00
37.95	1.11 0.57 1.95 0.00 0.00 0.00
38.00	1.11 0.57 1.95 0.00 0.00 0.00
38.05	1.11 0.57 1.95 0.00 0.00 0.00
38.10	1.11 0.57 1.95 0.00 0.00 0.00
38.15	1.11 0.57 1.95 0.00 0.00 0.00
38.20	1.11 0.57 1.95 0.00 0.00 0.00
38.25	1.11 0.57 1.95 0.00 0.00 0.00
38.30	1.11 0.57 1.95 0.00 0.00 0.00
38.35	1.11 0.57 1.95 0.00 0.00 0.00
38.40	1.09 0.57 1.93 0.00 0.00 0.00
38.45	1.08 0.57 1.91 0.00 0.00 0.00
38.50	1.07 0.57 1.88 0.00 0.00 0.00
38.55	1.06 0.57 1.87 0.00 0.00 0.00
38.60	1.05 0.57 1.85 0.00 0.00 0.00
	1.04 0.57 1.83 0.00 0.00 0.00
38.65	
38.70	1.03 0.57 1.82 0.00 0.00 0.00
38.75	1.02 0.57 1.80 0.00 0.00 0.00
38.80	1.01 0.57 1.79 0.00 0.00 0.00
38.85	1.00 0.57 1.78 0.00 0.00 0.00
38.90	1.00 0.56 1.77 0.00 0.00 0.00
38.95	0.99 0.56 1.76 0.00 0.00 0.00
39.00	0.99 0.56 1.75 0.00 0.00 0.00
39.05	0.98 0.56 1.74 0.00 0.00 0.00
39.10	0.97 0.56 1.73 0.00 0.00 0.00
39.15	0.97 0.56 1.72 0.00 0.00 0.00
39.20	0.96 0.56 1.71 0.00 0.00 0.00
39.25	0.96 0.56 1.70 0.00 0.00 0.00
39.30	0.95 0.56 1.70 0.00 0.00 0.00
39.35	0.95 0.56 1.69 0.00 0.00 0.00
39.40	0.95 0.56 1.68 0.00 0.00 0.00
39.45	0.94 0.56 1.68 0.00 0.00 0.00
JJ. T J	0.77 0.30 1.00 0.00 0.00 0.00

39.50 0.94 0.56 1.67 0.00 0.00 0.00 39.55 0.93 0.56 1.66 0.00 0.00 0.00 39.60 0.93 0.56 1.66 0.00 0.00 0.00 39.65 0.93 0.56 1.65 0.00 0.00 0.00 39.70 0.92 0.56 1.65 0.00 0.00 0.00 39.75 0.92 0.56 1.64 0.00 0.00 0.00 39.80 0.92 0.56 1.64 0.00 0.00 0.00 39.85 0.91 0.56 1.63 0.00 0.00 0.00 39.90 0.91 0.56 1.63 0.00 0.00 0.00 39.95 0.91 0.56 1.62 0.00 0.00 0.00 40.00 0.90 0.56 1.62 0.00 0.00 0.00 40.05 0.90 0.56 1.61 0.00 0.00 0.00 40.10 0.90 0.56 1.61 0.00 0.00 0.00 40.15 0.90 0.56 1.61 0.00 0.00 0.00 40.20 0.89 0.56 1.60 0.00 0.00 0.00 40.25 0.89 0.56 1.60 0.00 0.00 0.00 40.30 0.89 0.56 1.60 0.00 0.00 0.00 40.35 0.89 0.56 1.59 0.00 0.00 0.00 40.40 0.88 0.56 1.59 0.00 0.00 0.00 40.45 0.88 0.56 1.59 0.00 0.00 0.00 40.50 0.88 0.56 1.58 0.00 0.00 0.00 40.55 0.88 0.56 1.58 0.00 0.00 0.00 40.60 0.88 0.56 1.58 0.00 0.00 0.00 40.65 0.87 0.56 1.57 0.00 0.00 0.00 40.70 0.87 0.56 1.57 0.00 0.00 0.00 40.75 0.87 0.55 1.57 0.00 0.00 0.00 40.80 0.87 0.55 1.56 0.00 0.00 0.00 40.85 0.87 0.55 1.56 0.00 0.00 0.00 40.90 0.86 0.55 1.56 0.00 0.00 0.00 40.95 0.86 0.55 1.56 0.00 0.00 0.00 41.00 0.86 0.55 1.55 0.00 0.00 0.00 41.05 0.86 0.55 1.55 0.00 0.00 0.00 41.10 0.86 0.55 1.55 0.00 0.00 0.00 41.15 0.85 0.55 1.55 0.00 0.00 0.00 41.20 0.85 0.55 1.54 0.00 0.00 0.00 41.25 0.85 0.55 1.54 0.00 0.00 0.00 41.30 0.85 0.55 1.54 0.00 0.00 0.00 41.35 0.85 0.55 1.54 0.00 0.00 0.00 41.40 0.85 0.55 1.53 0.00 0.00 0.00 41.45 0.84 0.55 1.53 0.00 0.00 0.00 41.50 0.84 0.55 1.53 0.00 0.00 0.00 41.55 0.84 0.55 1.53 0.00 0.00 0.00 41.60 0.84 0.55 1.53 0.00 0.00 0.00 41.65 0.84 0.55 1.52 0.00 0.00 0.00 41.70 0.84 0.55 1.52 0.00 0.00 0.00 41.75 0.84 0.55 1.52 0.00 0.00 0.00 41.80 0.83 0.55 1.52 0.00 0.00 0.00 41.85 0.83 0.55 1.52 0.00 0.00 0.00 41.90 0.83 0.55 1.51 0.00 0.00 0.00 41.95 0.83 0.55 1.51 0.00 0.00 0.00 42.00 0.83 0.55 1.51 0.00 0.00 0.00 42.05 0.83 0.55 1.51 0.00 0.00 0.00 42.10 0.82 0.55 1.51 0.00 0.00 0.00 42.15 0.82 0.55 1.50 0.00 0.00 0.00

42.20 0.82 0.55 1.50 0.00 0.00 0.00 42.25 0.82 0.55 1.50 0.00 0.00 0.00 42.30 0.82 0.55 1.50 0.00 0.00 0.00 42.35 0.82 0.55 1.50 0.00 0.00 0.00 42.40 0.82 0.55 1.50 0.00 0.00 0.00 42.45 0.82 0.55 1.49 0.00 0.00 0.00 42.50 0.81 0.55 1.49 0.00 0.00 0.00 42.55 0.81 0.55 1.49 0.00 0.00 0.00 42.60 0.81 0.55 1.49 0.00 0.00 0.00 42.65 0.81 0.54 1.49 0.00 0.00 0.00 42.70 0.81 0.54 1.49 0.00 0.00 0.00 42.75 0.81 0.54 1.48 0.00 0.00 0.00 42.80 0.81 0.54 1.48 0.00 0.00 0.00 42.85 0.81 0.54 1.48 0.00 0.00 0.00 42.90 0.80 0.54 1.48 0.00 0.00 0.00 42.95 0.80 0.54 1.48 0.00 0.00 0.00 43.00 0.80 0.54 1.48 0.00 0.00 0.00 43.05 0.80 0.54 1.48 0.00 0.00 0.00 43.10 0.80 0.54 1.47 0.00 0.00 0.00 43.15 0.80 0.54 1.47 0.00 0.00 0.00 43.20 0.80 0.54 1.47 0.00 0.00 0.00 43.25 0.80 0.54 1.47 0.00 0.00 0.00 43.30 0.80 0.54 1.47 0.00 0.00 0.00 43.35 0.79 0.54 1.47 0.00 0.00 0.00 43.40 0.79 0.54 1.47 0.00 0.00 0.00 43.45 0.79 0.54 1.46 0.00 0.00 0.00 43.50 0.79 0.54 1.46 0.00 0.00 0.00 43.55 0.79 0.54 1.46 0.00 0.00 0.00 43.60 0.79 0.54 1.46 0.00 0.00 0.00 43.65 0.79 0.54 1.46 0.00 0.00 0.00 43.70 0.79 0.54 1.46 0.00 0.00 0.00 43.75 0.79 0.54 1.46 0.00 0.00 0.00 43.80 0.78 0.54 1.46 0.00 0.00 0.00 43.85 0.78 0.54 1.45 0.00 0.00 0.00 43.90 0.78 0.54 1.45 0.00 0.00 0.00 43.95 0.78 0.54 1.45 0.00 0.00 0.00 44.00 0.78 0.54 1.45 0.00 0.00 0.00 44.05 0.78 0.54 1.45 0.00 0.00 0.00 44.10 0.78 0.54 1.45 0.00 0.00 0.00 44.15 0.78 0.54 1.45 0.00 0.00 0.00 44.20 0.78 0.54 1.45 0.00 0.00 0.00 44.25 0.78 0.54 1.45 0.00 0.00 0.00 44.30 0.77 0.54 1.44 0.00 0.00 0.00 44.35 0.77 0.54 1.44 0.00 0.00 0.00 44.40 0.77 0.54 1.44 0.00 0.00 0.00 44.45 0.77 0.54 1.44 0.00 0.00 0.00 44.50 0.77 0.54 1.44 0.00 0.00 0.00 44.55 0.77 0.53 1.44 0.00 0.00 0.00 44.60 0.77 0.53 1.44 0.00 0.00 0.00 44.65 0.77 0.53 1.44 0.00 0.00 0.00 44.70 0.77 0.53 1.44 0.00 0.00 0.00 44.75 0.77 0.53 1.43 0.00 0.00 0.00 44.80 0.76 0.53 1.43 0.00 0.00 0.00 44.85 0.76 0.53 1.43 0.00 0.00 0.00 44.90 0.76 0.53 1.43 0.00 0.00 0.00 44.95 0.76 0.53 1.43 0.00 0.00 0.00 45.00 0.76 0.53 1.43 0.00 0.00 0.00 45.05 0.76 0.53 1.43 0.00 0.00 0.00 45.10 0.76 0.53 1.43 0.00 0.00 0.00 45.15 0.76 0.53 1.43 0.00 0.00 0.00 45.20 0.76 0.53 1.43 0.00 0.00 0.00 45.25 0.76 0.53 1.42 0.00 0.00 0.00 45.30 0.76 0.53 1.42 0.00 0.00 0.00 45.35 0.75 0.53 1.42 0.00 0.00 0.00 45.40 0.75 0.53 1.42 0.00 0.00 0.00 45.45 0.75 0.53 1.42 0.00 0.00 0.00 45.50 0.75 0.53 1.42 0.00 0.00 0.00 45.55 0.75 0.53 1.42 0.00 0.00 0.00 45.60 0.75 0.53 1.42 0.00 0.00 0.00 45.65 0.75 0.53 1.42 0.00 0.00 0.00 45.70 0.75 0.53 1.42 0.00 0.00 0.00 45.75 0.75 0.53 1.42 0.00 0.00 0.00 45.80 0.75 0.53 1.41 0.00 0.00 0.00 45.85 0.75 0.53 1.41 0.00 0.00 0.00 45.90 0.75 0.53 1.41 0.00 0.00 0.00 45.95 0.74 0.53 1.41 0.00 0.00 0.00 46.00 0.74 0.53 1.41 0.00 0.00 0.00 46.05 0.74 0.53 1.41 0.00 0.00 0.00 46.10 0.74 0.53 1.41 0.00 0.00 0.00 46.15 0.74 0.53 1.41 0.00 0.00 0.00 46.20 0.74 0.53 1.41 0.00 0.00 0.00 46.25 0.74 0.53 1.41 0.00 0.00 0.00 46.30 0.74 0.53 1.41 0.00 0.00 0.00 46.35 0.74 0.53 1.40 0.00 0.00 0.00 $0.74\ 0.52\ 1.40\ 0.00\ 0.00\ 0.00$ 46.40 46.45 0.74 0.52 1.40 0.00 0.00 0.00 46.50 0.74 0.52 1.40 0.00 0.00 0.00 46.55 0.73 0.52 1.40 0.00 0.00 0.00 46.60 0.73 0.52 1.40 0.00 0.00 0.00 46.65 0.73 0.52 1.40 0.00 0.00 0.00 46.70 0.73 0.52 1.40 0.00 0.00 0.00 46.75 0.73 0.52 1.40 0.00 0.00 0.00 46.80 0.73 0.52 1.40 0.00 0.00 0.00 0.73 0.52 1.40 0.00 0.00 0.00 46.85 46.90 0.73 0.52 1.40 0.00 0.00 0.00 46.95 0.73 0.52 1.40 0.00 0.00 0.00 47.00 0.73 0.52 1.39 0.00 0.00 0.00 47.05 0.73 0.52 1.39 0.00 0.00 0.00 47.10 0.73 0.52 1.39 0.00 0.00 0.00 47.15 0.73 0.52 1.39 0.00 0.00 0.00 47.20 0.72 0.52 1.39 0.00 0.00 0.00 47.25 0.72 0.52 1.39 0.00 0.00 0.00 $0.72\ 0.52\ 1.39\ 0.00\ 0.00\ 0.00$ 47.30 47.35 0.72 0.52 1.39 0.00 0.00 0.00 $0.72\ 0.52\ 1.39\ 0.00\ 0.00\ 0.00$ 47.40 0.72 0.52 1.39 0.00 0.00 0.00 47.45 47.50 0.72 0.52 1.39 0.00 0.00 0.00 47.55 0.72 0.52 1.39 0.00 0.00 0.00

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47.60
          0.72 0.52 1.39 0.00 0.00 0.00
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          0.72 0.52 1.38 0.00 0.00 0.00
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          0.72\ 0.52\ 1.38\ 0.00\ 0.00\ 0.00
47.80
          0.72 0.52 1.38 0.00 0.00 0.00
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          0.72 0.52 1.38 0.00 0.00 0.00
47.90
          0.71 0.52 1.38 0.00 0.00 0.00
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          0.71 0.52 1.38 0.00 0.00 0.00
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48.50
          0.71 0.51 1.37 0.00 0.00 0.00
48.55
          0.71 0.51 1.37 0.00 0.00 0.00
48.60
          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
48.85
          0.70 0.51 1.37 0.00 0.00 0.00
48.90
          0.70 0.51 1.37 0.00 0.00 0.00
48.95
          0.70 0.51 1.37 0.00 0.00 0.00
49.00
          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.70 0.51 1.37 0.00 0.00 0.00
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          0.69 0.51 1.36 0.00 0.00 0.00
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          0.69 0.51 1.36 0.00 0.00 0.00
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          0.69 0.51 1.36 0.00 0.00 0.00
49.55
          0.69 0.51 1.36 0.00 0.00 0.00
49.60
          0.69 0.51 1.36 0.00 0.00 0.00
49.65
          0.69 0.51 1.36 0.00 0.00 0.00
49.70
          0.69 0.51 1.36 0.00 0.00 0.00
49.75
          0.69 0.51 1.36 0.00 0.00 0.00
49.80
          0.69 0.51 1.36 0.00 0.00 0.00
49.85
          0.69 0.51 1.36 0.00 0.00 0.00
49.90
          0.69 0.51 1.36 0.00 0.00 0.00
49.95
          0.69 0.51 1.36 0.00 0.00 0.00
50.00
          0.69 0.51 1.36 0.00 0.00 0.00
```

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

^{*} F.S.<1, Liquefaction Potential Zone (F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

1 atm (atmosphere) = 1 tsf (ton/ft2)

CRRm Cyclic resistance ratio from soils

CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)

F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf

S_sat Settlement from saturated sands S_dry Settlement from Unsaturated Sands

S_all Total Settlement from Saturated and Unsaturated Sands

No-Liquefy Soils

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Input File Name: C:\Users\Engineering\Desktop\07-240145-0.liq

Title: Proposed Classroom Buildings at Bailey Elementary

Subtitle: 07-240145-0

Surface Elev.=141

Hole No.=B-5

Depth of Hole= 50.00 ft

Water Table during Earthquake= 12.50 ft Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration= 0.44 g Earthquake Magnitude= 5.50

Input Data:

Surface Elev.=141

Hole No.=B-5

Depth of Hole=50.00 ft

Water Table during Earthquake= 12.50 ft

Water Table during In-Situ Testing= 12.50 ft

Max. Acceleration=0.44 g

Earthquake Magnitude=5.50

No-Liquefiable Soils: Based on Analysis

- 1. SPT or BPT Calculation.
- 2. Settlement Analysis Method: Tokimatsu, M-correction
- 3. Fines Correction for Liquefaction: Stark/Olson et al.*
- 4. Fine Correction for Settlement: During Liquefaction*
- 5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.5

7. Borehole Diameter,

Cb=1

8. Sampling Method,

 $C_{S} = 1.2$

9. User request factor of safety (apply to CSR), User= 1.2 Plot one CSR curve (fs1=User)

10. Use Curve Smoothing: Yes*

* Recommended Options

In-Situ Test Data:

Depth SPT gamma Fines

ft pcf %

0.00 17.00 117.70 NoLiq 3.50 17.00 121.10 NoLiq

7.50 17.0	00 115	5.00	NoL	iq	
11.00	8.00 134	4.10	4.00	_	
15.00	8.00 134	4.10	4.00		
20.00	11.00	133.6	0	4.00	
25.00	11.00	133.6	50	4.00	
30.00	21.00	130.0	00	4.00	
35.00	21.00	130.0	00	4.00	
40.00	21.00	130.0	00	4.00	
45.00	21.00	130.0	00	4.00	

Output Results:

Settlement of Saturated Sands=0.59 in.

Settlement of Unsaturated Sands=0.03 in.

Total Settlement of Saturated and Unsaturated Sands=0.61 in.

Differential Settlement=0.307 to 0.405 in.

Depth ft	CRRm	CSR in.	fs in.	F.S. in.	S_sat.	S_dry	S_all
	0.34 5.00						
	0.34 5.00						
) 0.34 5.00) 0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
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	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
0.90 2.00	0.34 5.00	0.59	0.03	0.61			
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
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	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
	0.34 5.00						
1.65 2.00	0.34 5.00	0.59	0.03	0.61			

1.70 2.00 0.34 5.00 0.59 0.03 0.61 1.75 2.00 0.34 5.00 0.59 0.03 0.61 1.80 2.00 0.34 5.00 0.59 0.03 0.61 1.85 2.00 0.34 5.00 0.59 0.03 0.61 1.90 2.00 0.34 5.00 0.59 0.03 0.61 1.95 2.00 0.34 5.00 0.59 0.03 0.61 2.00 2.00 0.34 5.00 0.59 0.03 0.61 2.05 2.00 0.34 5.00 0.59 0.03 0.61 2.10 2.00 0.34 5.00 0.59 0.03 0.61 2.15 2.00 0.34 5.00 0.59 0.03 0.61 2.20 2.00 0.34 5.00 0.59 0.03 0.61 2.25 2.00 0.34 5.00 0.59 0.03 0.61 2.30 2.00 0.34 5.00 0.59 0.03 0.61 2.35 2.00 0.34 5.00 0.59 0.03 0.61 2.40 2.00 0.34 5.00 0.59 0.03 0.61 2.45 2.00 0.34 5.00 0.59 0.03 0.61 2.50 2.00 0.34 5.00 0.59 0.03 0.61 2.55 2.00 0.34 5.00 0.59 0.03 0.61 2.60 2.00 0.34 5.00 0.59 0.03 0.61 2.65 2.00 0.34 5.00 0.59 0.03 0.61 2.70 2.00 0.34 5.00 0.59 0.03 0.61 2.75 2.00 0.34 5.00 0.59 0.03 0.61 2.80 2.00 0.34 5.00 0.59 0.03 0.61 2.85 2.00 0.34 5.00 0.59 0.03 0.61 2.90 2.00 0.34 5.00 0.59 0.03 0.61 2.95 2.00 0.34 5.00 0.59 0.03 0.61 3.00 2.00 0.34 5.00 0.59 0.03 0.61 3.05 2.00 0.34 5.00 0.59 0.03 0.61 3.10 2.00 0.34 5.00 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20.60 0.45 0.41 1.11 0.17 0.00 0.17 20.65 0.45 0.41 1.11 0.17 0.00 0.17 20.70 0.45 0.41 1.10 0.17 0.00 0.17 20.75 0.45 0.41 1.10 0.17 0.00 0.17 20.80 0.45 0.41 1.10 0.17 0.00 0.17 20.85 0.45 0.41 1.10 0.17 0.00 0.17 20.90 0.45 0.41 1.10 0.17 0.00 0.17 20.95 0.45 0.41 1.10 0.17 0.00 0.17 21.00 0.45 0.41 1.09 0.17 0.00 0.17 21.05 0.45 0.41 1.09 0.17 0.00 0.17 21.10 0.45 0.41 1.09 0.16 0.00 0.16 21.15 0.45 0.41 1.09 0.16 0.00 0.16 21.20 0.45 0.41 1.09 0.16 0.00 0.16 21.25 0.45 0.41 1.09 0.16 0.00 0.16 21.30 0.44 0.41 1.08 0.16 0.00 0.16 0.44 0.41 1.08 0.16 0.00 0.16 21.35 21.40 0.44 0.41 1.08 0.16 0.00 0.16 21.45 0.44 0.41 1.08 0.16 0.00 0.16 21.50 0.44 0.41 1.08 0.16 0.00 0.16 21.55 0.44 0.41 1.08 0.16 0.00 0.16 21.60 0.44 0.41 1.07 0.16 0.00 0.16 21.65 0.44 0.41 1.07 0.15 0.00 0.15 21.70 0.44 0.41 1.07 0.15 0.00 0.15 21.75 0.44 0.41 1.07 0.15 0.00 0.15 21.80 0.44 0.41 1.07 0.15 0.00 0.15 21.85 0.44 0.41 1.07 0.15 0.00 0.15 21.90 0.44 0.41 1.06 0.15 0.00 0.15 21.95 0.44 0.41 1.06 0.15 0.00 0.15 22.00 0.44 0.41 1.06 0.15 0.00 0.15 22.05 0.44 0.41 1.06 0.15 0.00 0.15 22.10 0.44 0.41 1.06 0.14 0.00 0.14 22.15 0.44 0.41 1.06 0.14 0.00 0.14 22.20 0.44 0.42 1.06 0.14 0.00 0.14 22.25 0.44 0.42 1.05 0.14 0.00 0.14 22.30 0.44 0.42 1.05 0.14 0.00 0.14 22.35 0.44 0.42 1.05 0.14 0.00 0.14 22.40 0.44 0.42 1.05 0.14 0.00 0.14 22.45 0.44 0.42 1.05 0.14 0.00 0.14 22.50 0.44 0.42 1.05 0.14 0.00 0.14 22.55 0.44 0.42 1.04 0.13 0.00 0.13 22.60 0.44 0.42 1.04 0.13 0.00 0.13 22.65 0.43 0.42 1.04 0.13 0.00 0.13 22.70 0.43 0.42 1.04 0.13 0.00 0.13 22.75 0.43 0.42 1.04 0.13 0.00 0.13 22.80 0.43 0.42 1.04 0.13 0.00 0.13 22.85 0.43 0.42 1.04 0.13 0.00 0.13 22.90 0.43 0.42 1.03 0.13 0.00 0.13 22.95 0.43 0.42 1.03 0.13 0.00 0.13 23.00 0.43 0.42 1.03 0.12 0.00 0.12 23.05 0.43 0.42 1.03 0.12 0.00 0.12 23.10 0.43 0.42 1.03 0.12 0.00 0.12 23.15 0.43 0.42 1.03 0.12 0.00 0.12 23.20 0.43 0.42 1.03 0.12 0.00 0.12 23.25 0.43 0.42 1.02 0.12 0.00 0.12 23.30 0.43 0.42 1.02 0.12 0.00 0.12 23.35 0.43 0.42 1.02 0.12 0.00 0.12 23.40 0.43 0.42 1.02 0.11 0.00 0.11 23.45 0.43 0.42 1.02 0.11 0.00 0.11 23.50 0.43 0.42 1.02 0.11 0.00 0.11 23.55 0.43 0.42 1.02 0.11 0.00 0.11 23.60 0.43 0.42 1.02 0.11 0.00 0.11 23.65 0.43 0.42 1.01 0.11 0.00 0.11 23.70 0.43 0.42 1.01 0.10 0.00 0.10 23.75 0.43 0.42 1.01 0.10 0.00 0.10 23.80 0.43 0.42 1.01 0.10 0.00 0.10 23.85 0.43 0.42 1.01 0.10 0.00 0.10 23.90 0.43 0.42 1.01 0.10 0.00 0.10 23.95 0.43 0.42 1.01 0.09 0.00 0.09 24.00 0.43 0.42 1.00 0.09 0.00 0.09 24.05 0.43 0.42 1.00 0.09 0.00 0.09 24.10 0.43 0.42 1.00 0.09 0.00 0.09 24.15 0.43 0.42 1.00 0.09 0.00 0.09 24.20 0.42 0.42 1.00* $0.08 \ 0.00 \ 0.08$ 24.25 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.30 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.35 0.42 0.43 1.00* $0.08 \ 0.00 \ 0.08$ 24.40 0.42 0.43 0.99* $0.07 \ 0.00 \ 0.07$ 24.45 0.42 0.43 0.99* 0.07 0.00 0.07 24.50 0.42 0.43 0.99* $0.07 \ 0.00 \ 0.07$ 24.55 0.42 0.43 0.99* $0.07 \ 0.00 \ 0.07$ 24.60 0.42 0.43 0.99* $0.06 \ 0.00 \ 0.06$ 24.65 0.42 0.43 0.99* $0.06\ 0.00\ 0.06$ 24.70 0.42 0.43 0.99* $0.06 \ 0.00 \ 0.06$ 24.75 0.42 0.43 0.99* 0.05 0.00 0.05 24.80 0.42 0.43 0.98* 0.05 0.00 0.05 24.85 0.42 0.43 0.98* 0.05 0.00 0.05 24.90 $0.05\ 0.00\ 0.05$ 0.42 0.43 0.98* 24.95 0.42 0.43 0.98* 0.04 0.00 0.04 25.00 0.42 0.43 0.98* 0.03 0.00 0.03 25.05 0.42 0.43 0.99* 0.03 0.00 0.03 25.10 0.43 0.43 1.00* 0.02 0.00 0.02 25.15 0.43 0.43 1.00 0.02 0.00 0.02 25.20 0.43 0.43 1.01 0.02 0.00 0.02 25.25 0.44 0.43 1.02 0.02 0.00 0.02 25.30 0.44 0.43 1.03 0.02 0.00 0.02 25.35 0.44 0.43 1.03 0.02 0.00 0.02 25.40 0.45 0.43 1.04 0.01 0.00 0.01 25.45 0.45 0.43 1.05 0.01 0.00 0.01 25.50 0.45 0.43 1.06 0.01 0.00 0.01 0.46 0.43 1.06 0.01 0.00 0.01 25.55 25.60 0.46 0.43 1.07 0.01 0.00 0.01 25.65 0.47 0.43 1.08 0.01 0.00 0.01 25.70 0.47 0.43 1.09 0.01 0.00 0.01 25.75 0.47 0.43 1.10 0.01 0.00 0.01 25.80 0.48 0.43 1.10 0.01 0.00 0.01 25.85 0.48 0.43 1.11 0.01 0.00 0.01 25.90 0.48 0.43 1.12 0.00 0.00 0.00 25.95 0.49 0.43 1.13 0.00 0.00 0.00

26.00 0.49 0.43 1.13 0.00 0.00 0.00 26.05 0.49 0.43 1.14 0.00 0.00 0.00 26.10 0.50 0.43 1.15 0.00 0.00 0.00 26.15 0.50 0.43 1.16 0.00 0.00 0.00 26.20 0.51 0.43 1.17 0.00 0.00 0.00 26.25 0.51 0.43 1.18 0.00 0.00 0.00 26.30 0.51 0.43 1.18 0.00 0.00 0.00 26.35 0.52 0.43 1.19 0.00 0.00 0.00 26.40 0.52 0.43 1.20 0.00 0.00 0.00 26.45 0.52 0.43 1.21 0.00 0.00 0.00 26.50 0.53 0.43 1.22 0.00 0.00 0.00 26.55 0.53 0.43 1.23 0.00 0.00 0.00 26.60 0.54 0.43 1.23 0.00 0.00 0.00 26.65 0.54 0.43 1.24 0.00 0.00 0.00 26.70 0.54 0.44 1.25 0.00 0.00 0.00 26.75 0.55 0.44 1.26 0.00 0.00 0.00 26.80 0.55 0.44 1.27 0.00 0.00 0.00 26.85 0.56 0.44 1.28 0.00 0.00 0.00 26.90 0.56 0.44 1.29 0.00 0.00 0.00 26.95 0.57 0.44 1.30 0.00 0.00 0.00 27.00 0.57 0.44 1.31 0.00 0.00 0.00 27.05 0.57 0.44 1.31 0.00 0.00 0.00 27.10 0.58 0.44 1.32 0.00 0.00 0.00 27.15 0.58 0.44 1.33 0.00 0.00 0.00 27.20 0.59 0.44 1.34 0.00 0.00 0.00 27.25 0.59 0.44 1.35 0.00 0.00 0.00 27.30 0.60 0.44 1.36 0.00 0.00 0.00 27.35 0.60 0.44 1.37 0.00 0.00 0.00 27.40 0.61 0.44 1.38 0.00 0.00 0.00 27.45 0.61 0.44 1.39 0.00 0.00 0.00 27.50 0.61 0.44 1.40 0.00 0.00 0.00 27.55 0.62 0.44 1.41 0.00 0.00 0.00 27.60 0.62 0.44 1.42 0.00 0.00 0.00 27.65 0.63 0.44 1.44 0.00 0.00 0.00 27.70 $0.63\ 0.44\ 1.45\ 0.00\ 0.00\ 0.00$ 27.75 0.64 0.44 1.46 0.00 0.00 0.00 27.80 0.64 0.44 1.47 0.00 0.00 0.00 27.85 0.65 0.44 1.48 0.00 0.00 0.00 27.90 0.71 0.44 1.63 0.00 0.00 0.00 27.95 0.72 0.44 1.64 0.00 0.00 0.00 28.00 0.73 0.44 1.66 0.00 0.00 0.00 28.05 0.74 0.44 1.67 0.00 0.00 0.00 28.10 0.74 0.44 1.69 0.00 0.00 0.00 28.15 0.75 0.44 1.71 0.00 0.00 0.00 28.20 0.76 0.44 1.72 0.00 0.00 0.00 28.25 0.77 0.44 1.74 0.00 0.00 0.00 28.30 0.78 0.44 1.76 0.00 0.00 0.00 28.35 0.79 0.44 1.78 0.00 0.00 0.00 28.40 0.80 0.44 1.81 0.00 0.00 0.00 28.45 0.81 0.44 1.83 0.00 0.00 0.00 28.50 0.82 0.44 1.85 0.00 0.00 0.00 28.55 0.83 0.44 1.88 0.00 0.00 0.00 28.60 0.84 0.44 1.91 0.00 0.00 0.00 28.65 0.86 0.44 1.94 0.00 0.00 0.00

28.70	0.88 0.44 1.98 0.00 0.00 0.00
28.75	0.90 0.44 2.03 0.00 0.00 0.00
28.80	0.92 0.44 2.09 0.00 0.00 0.00
28.85	0.96 0.44 2.17 0.00 0.00 0.00
28.90	1.02 0.44 2.30 0.00 0.00 0.00
28.95	1.11 0.44 2.50 0.00 0.00 0.00
29.00	1.11 0.44 2.50 0.00 0.00 0.00
29.05	1.11 0.44 2.49 0.00 0.00 0.00
29.10	1.11 0.44 2.49 0.00 0.00 0.00
29.15	1.11 0.44 2.49 0.00 0.00 0.00
29.20	1.11 0.44 2.49 0.00 0.00 0.00
29.25	1.11 0.44 2.49 0.00 0.00 0.00
29.30	1.11 0.44 2.49 0.00 0.00 0.00
29.35	1.11 0.44 2.49 0.00 0.00 0.00
29.40	1.11 0.44 2.49 0.00 0.00 0.00
29.45	1.11 0.44 2.49 0.00 0.00 0.00
29.50	1.11 0.44 2.49 0.00 0.00 0.00
29.55	1.11 0.44 2.49 0.00 0.00 0.00
29.60	1.11 0.44 2.48 0.00 0.00 0.00
29.65	1.11 0.45 2.48 0.00 0.00 0.00
29.70	1.11 0.45 2.48 0.00 0.00 0.00
29.75	1.11 0.45 2.48 0.00 0.00 0.00
29.80	1.11 0.45 2.48 0.00 0.00 0.00
29.85	1.11 0.45 2.48 0.00 0.00 0.00
29.90	1.11 0.45 2.48 0.00 0.00 0.00
29.95	1.11 0.45 2.48 0.00 0.00 0.00
30.00	1.11 0.45 2.48 0.00 0.00 0.00
30.05	1.11 0.45 2.48 0.00 0.00 0.00
30.10	1.11 0.45 2.48 0.00 0.00 0.00
30.15	1.11 0.45 2.48 0.00 0.00 0.00
30.20	1.11 0.45 2.48 0.00 0.00 0.00
30.25	1.11 0.45 2.48 0.00 0.00 0.00
30.30	1.11 0.45 2.48 0.00 0.00 0.00
30.35	1.11 0.45 2.48 0.00 0.00 0.00
30.40	1.11 0.45 2.48 0.00 0.00 0.00
	1.11 0.45 2.48 0.00 0.00 0.00
30.45	
30.50	1.11 0.45 2.48 0.00 0.00 0.00
30.55	1.11 0.45 2.48 0.00 0.00 0.00
30.60	1.11 0.45 2.48 0.00 0.00 0.00
30.65	1.11 0.45 2.48 0.00 0.00 0.00
30.70	1.11 0.45 2.48 0.00 0.00 0.00
30.75	1.11 0.45 2.48 0.00 0.00 0.00
30.80	1.11 0.45 2.48 0.00 0.00 0.00
30.85	1.11 0.45 2.48 0.00 0.00 0.00
30.90	1.11 0.45 2.48 0.00 0.00 0.00
30.95	1.11 0.45 2.48 0.00 0.00 0.00
31.00	1.11 0.45 2.48 0.00 0.00 0.00
31.05	1.11 0.45 2.48 0.00 0.00 0.00
31.10	1.11 0.45 2.48 0.00 0.00 0.00
31.15	1.11 0.45 2.48 0.00 0.00 0.00
31.20	1.11 0.45 2.48 0.00 0.00 0.00
31.25	1.11 0.45 2.48 0.00 0.00 0.00
31.30	1.11 0.45 2.48 0.00 0.00 0.00
31.35	1.11 0.45 2.48 0.00 0.00 0.00

31.40	1.11 0.45 2.48 0.00 0.00 0.00
31.45	1.11 0.45 2.48 0.00 0.00 0.00
31.50	1.11 0.45 2.48 0.00 0.00 0.00
	1.11 0.45 2.48 0.00 0.00 0.00
31.55	
31.60	1.11 0.45 2.48 0.00 0.00 0.00
31.65	1.11 0.45 2.48 0.00 0.00 0.00
31.70	1.11 0.45 2.48 0.00 0.00 0.00
31.75	1.11 0.45 2.48 0.00 0.00 0.00
31.80	1.11 0.45 2.48 0.00 0.00 0.00
31.85	1.11 0.45 2.48 0.00 0.00 0.00
31.90	1.11 0.45 2.48 0.00 0.00 0.00
31.95	1.11 0.45 2.48 0.00 0.00 0.00
32.00	1.11 0.45 2.48 0.00 0.00 0.00
32.05	1.11 0.45 2.48 0.00 0.00 0.00
32.10	1.11 0.45 2.48 0.00 0.00 0.00
32.15	1.11 0.45 2.48 0.00 0.00 0.00
32.20	1.11 0.45 2.48 0.00 0.00 0.00
32.25	1.11 0.45 2.48 0.00 0.00 0.00
32.30	1.11 0.45 2.48 0.00 0.00 0.00
32.35	1.11 0.45 2.48 0.00 0.00 0.00
32.40	1.11 0.45 2.48 0.00 0.00 0.00
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32.45	1.11 0.45 2.48 0.00 0.00 0.00
32.50	1.11 0.45 2.48 0.00 0.00 0.00
32.55	1.11 0.45 2.48 0.00 0.00 0.00
32.60	1.11 0.45 2.48 0.00 0.00 0.00
32.65	1.11 0.45 2.48 0.00 0.00 0.00
32.70	1.11 0.45 2.48 0.00 0.00 0.00
32.75	1.11 0.45 2.48 0.00 0.00 0.00
32.80	1.11 0.45 2.48 0.00 0.00 0.00
32.85	1.11 0.45 2.48 0.00 0.00 0.00
32.90	1.11 0.45 2.48 0.00 0.00 0.00
32.95	1.11 0.45 2.48 0.00 0.00 0.00
33.00	1.11 0.45 2.48 0.00 0.00 0.00
33.05	1.11 0.45 2.48 0.00 0.00 0.00
33.10	1.11 0.45 2.48 0.00 0.00 0.00
33.15	1.11 0.45 2.48 0.00 0.00 0.00
33.20	1.11 0.45 2.48 0.00 0.00 0.00
33.25	1.11 0.45 2.48 0.00 0.00 0.00
33.30	1.11 0.45 2.48 0.00 0.00 0.00
33.35	1.11 0.45 2.48 0.00 0.00 0.00
33.40	1.11 0.45 2.48 0.00 0.00 0.00
33.45	1.11 0.45 2.48 0.00 0.00 0.00
	1.11 0.45 2.48 0.00 0.00 0.00
33.50	
33.55	1.11 0.45 2.48 0.00 0.00 0.00
33.60	1.11 0.45 2.48 0.00 0.00 0.00
33.65	1.11 0.45 2.48 0.00 0.00 0.00
33.70	1.11 0.45 2.48 0.00 0.00 0.00
33.75	1.11 0.45 2.48 0.00 0.00 0.00
33.80	1.11 0.45 2.48 0.00 0.00 0.00
33.85	1.11 0.45 2.48 0.00 0.00 0.00
33.90	1.11 0.45 2.48 0.00 0.00 0.00
33.95	1.11 0.45 2.48 0.00 0.00 0.00
34.00	1.11 0.45 2.48 0.00 0.00 0.00
34.05	1.11 0.44 2.48 0.00 0.00 0.00

34.10	1.11 0.44 2.49 0.00 0.00 0.00
34.15	1.11 0.44 2.49 0.00 0.00 0.00
34.20	1.11 0.44 2.49 0.00 0.00 0.00
34.25	1.11 0.44 2.49 0.00 0.00 0.00
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34.45	1.11 0.44 2.49 0.00 0.00 0.00
34.50	1.11 0.44 2.49 0.00 0.00 0.00
34.55	1.11 0.44 2.49 0.00 0.00 0.00
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35.55	1.11 0.44 2.49 0.00 0.00 0.00
35.60	1.11 0.44 2.49 0.00 0.00 0.00
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35.75	1.11 0.44 2.49 0.00 0.00 0.00
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36.00	1.11 0.44 2.50 0.00 0.00 0.00
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36.55	1.11 0.44 2.50 0.00 0.00 0.00
36.60	1.11 0.44 2.50 0.00 0.00 0.00
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36.70	1.11 0.44 2.50 0.00 0.00 0.00
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36.80	1.11 0.44 2.50 0.00 0.00 0.00
36.85	1.11 0.44 2.50 0.00 0.00 0.00
36.90	1.11 0.44 2.50 0.00 0.00 0.00
36.95	1.11 0.44 2.50 0.00 0.00 0.00
37.00	1.11 0.44 2.50 0.00 0.00 0.00
37.05	1.11 0.44 2.50 0.00 0.00 0.00
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37.10	
37.15	1.11 0.44 2.50 0.00 0.00 0.00
37.20	1.11 0.44 2.50 0.00 0.00 0.00
37.25	1.11 0.44 2.52 0.00 0.00 0.00
37.30	1.11 0.44 2.52 0.00 0.00 0.00
37.35	1.11 0.44 2.52 0.00 0.00 0.00
37.40	1.11 0.44 2.52 0.00 0.00 0.00
37.45	1.11 0.44 2.52 0.00 0.00 0.00
37.50	1.11 0.44 2.52 0.00 0.00 0.00
37.55	1.11 0.44 2.52 0.00 0.00 0.00
37.60	1.11 0.44 2.52 0.00 0.00 0.00
37.65	1.11 0.44 2.52 0.00 0.00 0.00
37.70	1.11 0.44 2.52 0.00 0.00 0.00
37.75	1.11 0.44 2.52 0.00 0.00 0.00
37.80	1.11 0.44 2.52 0.00 0.00 0.00
37.85	1.11 0.44 2.52 0.00 0.00 0.00
37.90	1.11 0.44 2.52 0.00 0.00 0.00
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38.00	1.11 0.44 2.52 0.00 0.00 0.00
38.05	1.11 0.44 2.52 0.00 0.00 0.00
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38.20	1.11 0.44 2.52 0.00 0.00 0.00
38.25	1.11 0.44 2.52 0.00 0.00 0.00
38.30	1.11 0.44 2.52 0.00 0.00 0.00
38.35	1.11 0.44 2.52 0.00 0.00 0.00
38.40	1.09 0.44 2.49 0.00 0.00 0.00
38.45	1.08 0.44 2.46 0.00 0.00 0.00
38.50	1.07 0.44 2.43 0.00 0.00 0.00
38.55	1.06 0.44 2.40 0.00 0.00 0.00
38.60	1.05 0.44 2.38 0.00 0.00 0.00
38.65	1.04 0.44 2.36 0.00 0.00 0.00
38.70	1.03 0.44 2.34 0.00 0.00 0.00
38.75	1.02 0.44 2.32 0.00 0.00 0.00
38.80	1.01 0.44 2.30 0.00 0.00 0.00
38.85	1.00 0.44 2.29 0.00 0.00 0.00
38.90	1.00 0.44 2.27 0.00 0.00 0.00
38.95	0.99 0.44 2.26 0.00 0.00 0.00
39.00	0.99 0.44 2.24 0.00 0.00 0.00
	0.98 0.44 2.23 0.00 0.00 0.00
39.05	
39.10	0.97 0.44 2.22 0.00 0.00 0.00
39.15	0.97 0.44 2.21 0.00 0.00 0.00
39.20	0.96 0.44 2.20 0.00 0.00 0.00
39.25	0.96 0.44 2.19 0.00 0.00 0.00
39.30	0.95 0.44 2.18 0.00 0.00 0.00
39.35	0.95 0.44 2.17 0.00 0.00 0.00
39.40	0.95 0.44 2.16 0.00 0.00 0.00
39.45	0.94 0.44 2.15 0.00 0.00 0.00

39.50 0.94 0.44 2.14 0.00 0.00 0.00 39.55 0.93 0.44 2.13 0.00 0.00 0.00 39.60 0.93 0.44 2.12 0.00 0.00 0.00 39.65 0.93 0.44 2.12 0.00 0.00 0.00 39.70 0.92 0.44 2.11 0.00 0.00 0.00 39.75 0.92 0.44 2.10 0.00 0.00 0.00 39.80 0.92 0.44 2.09 0.00 0.00 0.00 39.85 0.91 0.44 2.09 0.00 0.00 0.00 39.90 0.91 0.44 2.08 0.00 0.00 0.00 39.95 0.91 0.44 2.08 0.00 0.00 0.00 40.00 0.90 0.44 2.07 0.00 0.00 0.00 40.05 0.90 0.44 2.06 0.00 0.00 0.00 40.10 0.90 0.44 2.06 0.00 0.00 0.00 40.15 0.90 0.44 2.05 0.00 0.00 0.00 40.20 0.89 0.44 2.05 0.00 0.00 0.00 40.25 0.89 0.44 2.04 0.00 0.00 0.00 40.30 0.89 0.44 2.04 0.00 0.00 0.00 40.35 0.89 0.44 2.03 0.00 0.00 0.00 40.40 0.88 0.44 2.03 0.00 0.00 0.00 40.45 0.88 0.44 2.02 0.00 0.00 0.00 40.50 0.88 0.44 2.02 0.00 0.00 0.00 40.55 0.88 0.44 2.01 0.00 0.00 0.00 40.60 0.88 0.44 2.01 0.00 0.00 0.00 40.65 0.87 0.44 2.00 0.00 0.00 0.00 40.70 0.87 0.44 2.00 0.00 0.00 0.00 40.75 0.87 0.44 1.99 0.00 0.00 0.00 40.80 0.87 0.44 1.99 0.00 0.00 0.00 40.85 0.87 0.44 1.99 0.00 0.00 0.00 40.90 0.86 0.44 1.98 0.00 0.00 0.00 40.95 0.86 0.44 1.98 0.00 0.00 0.00 41.00 0.86 0.44 1.97 0.00 0.00 0.00 41.05 0.86 0.44 1.97 0.00 0.00 0.00 41.10 0.86 0.44 1.97 0.00 0.00 0.00 41.15 0.85 0.44 1.96 0.00 0.00 0.00 41.20 0.85 0.44 1.96 0.00 0.00 0.00 41.25 0.85 0.44 1.96 0.00 0.00 0.00 41.30 0.85 0.43 1.95 0.00 0.00 0.00 41.35 0.85 0.43 1.95 0.00 0.00 0.00 41.40 0.85 0.43 1.95 0.00 0.00 0.00 41.45 0.84 0.43 1.94 0.00 0.00 0.00 41.50 0.84 0.43 1.94 0.00 0.00 0.00 41.55 0.84 0.43 1.94 0.00 0.00 0.00 41.60 0.84 0.43 1.93 0.00 0.00 0.00 41.65 0.84 0.43 1.93 0.00 0.00 0.00 41.70 0.84 0.43 1.93 0.00 0.00 0.00 41.75 0.84 0.43 1.92 0.00 0.00 0.00 41.80 0.83 0.43 1.92 0.00 0.00 0.00 41.85 0.83 0.43 1.92 0.00 0.00 0.00 41.90 0.83 0.43 1.92 0.00 0.00 0.00 41.95 0.83 0.43 1.91 0.00 0.00 0.00 42.00 0.83 0.43 1.91 0.00 0.00 0.00 42.05 0.83 0.43 1.91 0.00 0.00 0.00 42.10 0.82 0.43 1.90 0.00 0.00 0.00 42.15 0.82 0.43 1.90 0.00 0.00 0.00

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44.90 0.76 0.43 1.79 0.00 0.00 0.00 44.95 0.76 0.43 1.78 0.00 0.00 0.00 45.00 0.76 0.43 1.78 0.00 0.00 0.00 45.05 0.76 0.43 1.78 0.00 0.00 0.00 45.10 0.76 0.43 1.78 0.00 0.00 0.00 45.15 0.76 0.43 1.78 0.00 0.00 0.00 45.20 0.76 0.43 1.78 0.00 0.00 0.00 45.25 0.76 0.43 1.77 0.00 0.00 0.00 45.30 0.76 0.43 1.77 0.00 0.00 0.00 45.35 0.75 0.43 1.77 0.00 0.00 0.00 45.40 0.75 0.43 1.77 0.00 0.00 0.00 45.45 0.75 0.43 1.77 0.00 0.00 0.00 45.50 0.75 0.43 1.77 0.00 0.00 0.00 45.55 0.75 0.43 1.77 0.00 0.00 0.00 45.60 0.75 0.43 1.76 0.00 0.00 0.00 45.65 0.75 0.43 1.76 0.00 0.00 0.00 45.70 0.75 0.43 1.76 0.00 0.00 0.00 45.75 0.75 0.43 1.76 0.00 0.00 0.00 45.80 0.75 0.42 1.76 0.00 0.00 0.00 45.85 0.75 0.42 1.76 0.00 0.00 0.00 45.90 0.75 0.42 1.75 0.00 0.00 0.00 45.95 0.74 0.42 1.75 0.00 0.00 0.00 46.00 0.74 0.42 1.75 0.00 0.00 0.00 46.05 0.74 0.42 1.75 0.00 0.00 0.00 46.10 0.74 0.42 1.75 0.00 0.00 0.00 46.15 0.74 0.42 1.75 0.00 0.00 0.00 46.20 0.74 0.42 1.75 0.00 0.00 0.00 46.25 0.74 0.42 1.74 0.00 0.00 0.00 46.30 0.74 0.42 1.74 0.00 0.00 0.00 46.35 0.74 0.42 1.74 0.00 0.00 0.00 46.40 0.74 0.42 1.74 0.00 0.00 0.00 46.45 0.74 0.42 1.74 0.00 0.00 0.00 46.50 0.74 0.42 1.74 0.00 0.00 0.00 46.55 0.73 0.42 1.74 0.00 0.00 0.00 46.60 0.73 0.42 1.74 0.00 0.00 0.00 46.65 0.73 0.42 1.73 0.00 0.00 0.00 46.70 0.73 0.42 1.73 0.00 0.00 0.00 46.75 0.73 0.42 1.73 0.00 0.00 0.00 46.80 0.73 0.42 1.73 0.00 0.00 0.00 46.85 0.73 0.42 1.73 0.00 0.00 0.00 46.90 0.73 0.42 1.73 0.00 0.00 0.00 46.95 0.73 0.42 1.73 0.00 0.00 0.00 47.00 0.73 0.42 1.72 0.00 0.00 0.00 47.05 0.73 0.42 1.72 0.00 0.00 0.00 47.10 0.73 0.42 1.72 0.00 0.00 0.00 47.15 0.73 0.42 1.72 0.00 0.00 0.00 47.20 0.72 0.42 1.72 0.00 0.00 0.00 47.25 0.72 0.42 1.72 0.00 0.00 0.00 47.30 0.72 0.42 1.72 0.00 0.00 0.00 47.35 0.72 0.42 1.72 0.00 0.00 0.00 47.40 0.72 0.42 1.71 0.00 0.00 0.00 47.45 0.72 0.42 1.71 0.00 0.00 0.00 47.50 0.72 0.42 1.71 0.00 0.00 0.00 47.55 0.72 0.42 1.71 0.00 0.00 0.00

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48.00
          0.71 0.42 1.70 0.00 0.00 0.00
48.05
          0.71 0.42 1.70 0.00 0.00 0.00
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          0.71 0.42 1.69 0.00 0.00 0.00
48.45
          0.71 0.42 1.69 0.00 0.00 0.00
48.50
          0.71 0.42 1.69 0.00 0.00 0.00
48.55
          0.71 0.42 1.69 0.00 0.00 0.00
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          0.70 0.42 1.69 0.00 0.00 0.00
48.65
          0.70 0.42 1.69 0.00 0.00 0.00
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          0.70 0.42 1.69 0.00 0.00 0.00
48.75
          0.70 0.42 1.68 0.00 0.00 0.00
48.80
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          0.70 0.42 1.68 0.00 0.00 0.00
48.95
          0.70 0.42 1.68 0.00 0.00 0.00
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49.30
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49.35
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49.40
          0.69 0.42 1.67 0.00 0.00 0.00
49.45
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49.50
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49.55
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49.60
          0.69 0.41 1.67 0.00 0.00 0.00
49.65
          0.69 0.41 1.67 0.00 0.00 0.00
49.70
          0.69 0.41 1.67 0.00 0.00 0.00
49.75
          0.69 0.41 1.66 0.00 0.00 0.00
49.80
          0.69 0.41 1.66 0.00 0.00 0.00
49.85
          0.69 0.41 1.66 0.00 0.00 0.00
49.90
          0.69 0.41 1.66 0.00 0.00 0.00
49.95
          0.69 0.41 1.66 0.00 0.00 0.00
50.00
          0.69 0.41 1.66 0.00 0.00 0.00
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Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

^{*} F.S.<1, Liquefaction Potential Zone (F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

1 atm (atmosphere) = 1 tsf (ton/ft2)

CRRm Cyclic resistance ratio from soils

CSRsf Cyclic stress ratio induced by a given earthquake (with user request factor of safety)

F.S. Factor of Safety against liquefaction, F.S.=CRRm/CSRsf

S_sat Settlement from saturated sands S_dry Settlement from Unsaturated Sands

S_all Total Settlement from Saturated and Unsaturated Sands

No-Liquefy Soils



GEOTECHNICAL CONSULTANTS

APPENDIX D

REFERENCES



GEOTECHNICAL CONSULTANTS

APPENDIX D

REFERENCES

- 1. ASCE/SEI 7-16, 2019, Minimum Design Loads for Buildings and Other Structures.
- 2. Bartow, J. A., 1991, The Cenozoic Evolution of the San Joaquin Valley, California, USGS Professional Paper 1501.
- 3. Borches, J. W. and Carpenter, M., 2014, Land Subsidence from Groundwater Use in California: Luhdorff and Scalimanni Consulting Engineers.
- 4. Bailey, E. H., Irwin, W. P., and Jones, D. L. (1964). *Franciscan and related rocks and their significance in the geology of western California* (Vol. 183). California Division of Mines and Geology.
- 5. Branum, D. and others, 2008, Earthquake Shaking Potential for California: California Geological Survey Map Sheet 48.
- 6. Bryant, W. A. and Hart, E. W., 2007, Fault-Rupture Hazard Zones in California: California Department of Conservation, Division of Mines and Geology Special Publication 42, Interim Revision 2007 and online updates.
- 7. California Building Standards Commission, 2022 California Building Code.
- 8. California Department of Conservation, Division of Mines and Geology, 2008, Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication, 117.
- 9. California Department of Water Resources, Sustainable Groundwater Management Act (SGMA) Data Viewer https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels and Groundwater Level Monitoring Website: http://www.water.ca.gov/groundwater/data_and_monitoring/levels.cfm
- 10. California Geologic Survey, California Earthquake History and Catalogs (https://www.conservation.ca.gov/cgs/Pages/Earthquakes/Earthquakes-Significant.aspx)
- 11. California Geological Survey, November 2022, Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings, Note 48.
- 12. Churchill, R. K. and Hill, R. L., 2000, A General Location Guide for Ultramfic Rocks in California Areas More Likely to Contain Naturally Occurring Asbestos: Department of Conservation, Division of Mines and Geology Open-File Report 2000-19.
- 13. City of Fresno Master Environmental Impact Report, December 5, 2014, Chapter 5.6, Geology and Soils (https://www.fresno.gov/darm/wp-content/uploads/sites/10/2016/11/Sec-05-06-Geo-Fresno-MEIR.pdf).
- 14. Federal Emergency Management Agency, Flood Insurance Rate Map (FIRM) #06019C1430H Effective on February 18, 2009 (https://msc.fema.gove/portal).
- 15. Fresno County, October 3, 2000, General Plan Background Report.



GEOTECHNICAL CONSULTANTS

- 16. Galloway, D. L., Hudnut, K. W., Ingebritsen, S. E., Phillips, S. P., Peltzer, G., Rogez, F., & Rosen, P. A. (1998). Detection of aquifer system compaction and land subsidence using interferometric synthetic aperture radar, Antelope Valley, Mojave Desert, California. *Water Resources Research*, 34(10), 2573-2585.
- 17. Gutierrez, C. and others, 2010, Geologic Map of California: California Geological Survey Map No. 2.
- 18. Harden, D. R. 2004. California Geology. 2nd ed. Pearson-Prentice Hall.
- 19. Hammond, W. C., Blewitt, G., Li, Z., Plag, H. P., & Kreemer, C. (2012). Contemporary uplift of the Sierra Nevada, western United States, from GPS and InSAR measurements. *Geology*, *40*(7), 667-670.
- 20. Irwin, W. P. (1990). Geology and plate-tectonic development. *The San Andreas Fault System, California*, 1515, 61-80.
- 21. Jennings, C. W., and Bryant, W. A., 2010, Fault Activity Map of California, California Geological Survey, Geologic Data Map No. 6.
- 22. Martin, G. R. and Lew, M., 1999, Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction Hazards in California, Southern California Earthquake Center publication.
- 23. Miller, D. C., 1989, Potential Hazards from Future Volcanic Eruptions in California: U.S. Geological Survey Bulletin 1847.
- 24. Page, R. W. (1986). *Geology of the fresh ground-water basin of the Central Valley, California: with texture maps and sections*. US Government Printing Office.
- 25. Seed, H.B. and Whitman, R.V., 1970, "Design of Earth Retaining Structures for Dynamic Loads" Proceedings, ASCE Specialty Conference on lateral stresses in the ground and design of earth retaining structures, ASCE, pp 103-147
- 26. Structural Engineers Association of California and California Office of Statewide Planning and Development, 2022, Seismic Design Maps, ASCE 7-16 Standard, https://seismicmaps.org/
- 27. Structural Engineers Association of California Seismology Committee (2019), "Seismically Induced Lateral Earth Pressures on Retaining Structures and Basement Walls," August 2019, *The SEAOC Blue Book: Seismic Design Recommendations*, Structural Engineers Association of California, Sacramento, CA.
- 28. Wakabayashi, J. (1992). Nappes, tectonics of oblique plate convergence, and metamorphic evolution related to 140 million years of continuous subduction, Franciscan Complex, California. *The Journal of Geology,* 100(1), 19-40.
- 29. Wakabayashi, J. (2011). Mélanges of the Franciscan Complex, California: Diverse structural settings, evidence for sedimentary mixing, and their connection to subduction processes. *Geological Society of America Special Papers*, 480, 117-141.

Proposed PS/TK/K Classroom Buildings at Bailey Elementary School Firebaugh, California

Page D - 2



October 1, 2024

Re:

Hazel M. Bailey Primary School Classroom Addition Project

Fresno EOC Building identified on the attached site map

Address:

691 Q St, Firebaugh, CA 93622

To Whom It May Concern:

This letter is to provide date of purchase for the building noted on the attached site map. The building was newly constructed when purchased on December 31,1994 and relocated to the location noted in red on the attached site map in 2006-2007. The building has since been removed for the site by the owner Fresno Economic Opportunities Commission.

Sincerely,

Roy Mendiola, Ed.D. Superintendent

to Mendeola

Firebaugh Las-Deltas Unified School District

rmendiola@fldusd.org Office (559) 659-1476

Fax (559) 6**59**-2355

Appendix B

Historical Research Documentation

Hazel M. Bailey Primary School

1691 Q Street Firebaugh, CA 93622

Inquiry Number: 7620730.8

April 10, 2024

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

04/10/24

Site Name: Client Name:

Hazel M. Bailey Primary Schoo Rincon

1691 Q Street 180 North Ashwood Avenue Firebaugh, CA 93622 Ventura, CA 93003-0000 EDR Inquiry # 7620730.8 Contact: Savanna Vrevich



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:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
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
1981	1"=500'	Flight Date: September 20, 1981	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
1960	1"=500'	Flight Date: April 10, 1960	USGS
1957	1"=500'	Flight Date: June 18, 1957	USGS
1950	1"=500'	Flight Date: February 13, 1950	USDA
1946	1"=500'	Flight Date: April 28, 1946	USGS
1937	1"=500'	Flight Date: October 20, 1937	USDA

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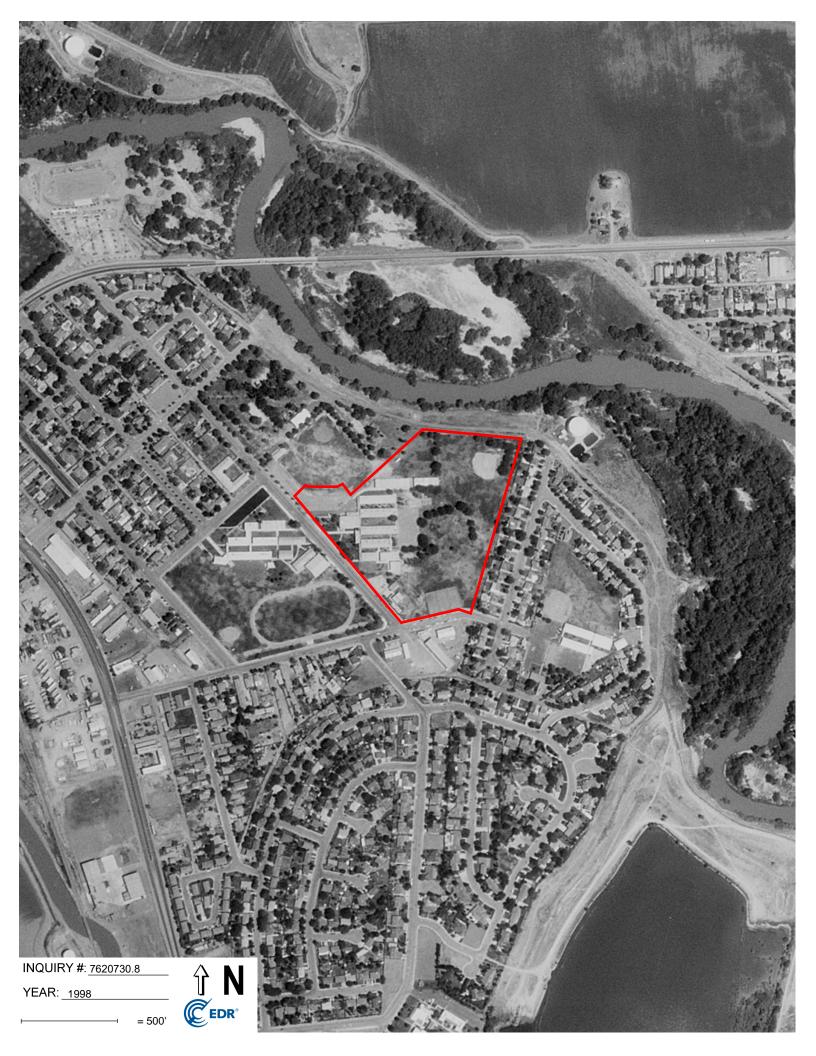










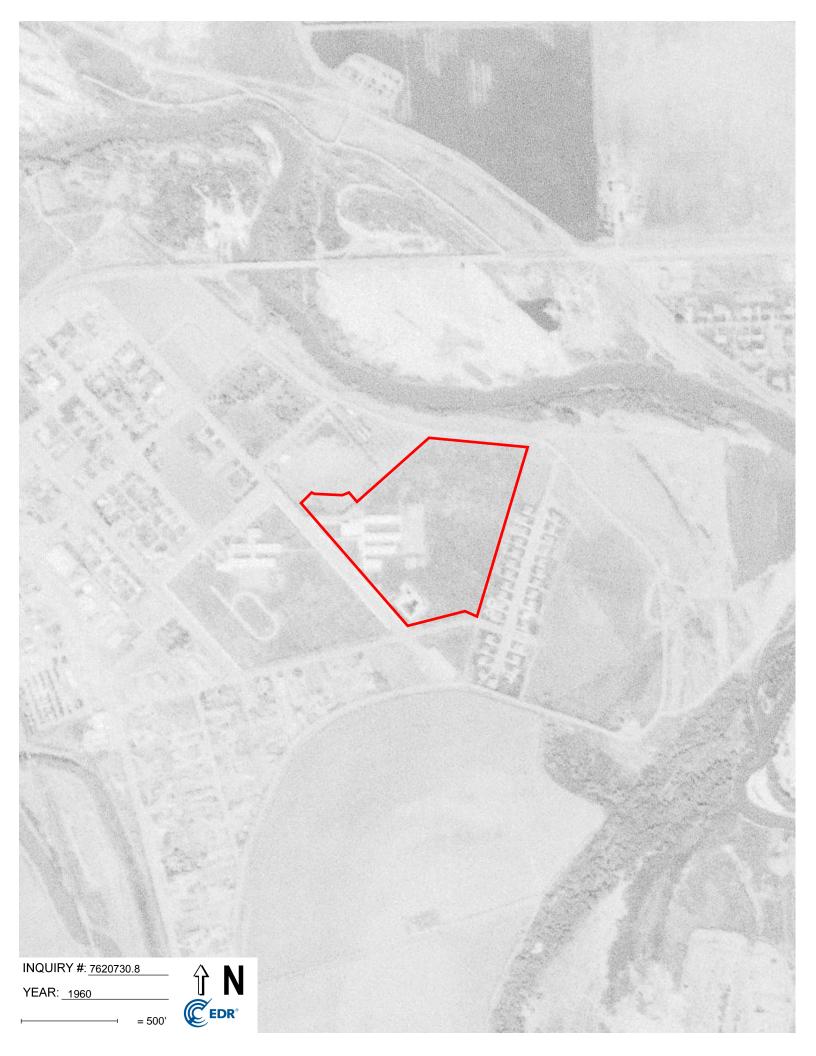




















Hazel M. Bailey Primary School 1691 Q Street Firebaugh, CA 93622

Inquiry Number: 7620730.4

April 10, 2024

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

04/10/24

Site Name: **Client Name:**

Hazel M. Bailey Primary Schoo

1691 Q Street

Firebaugh, CA 93622 EDR Inquiry # 7620730.4 Rincon

180 North Ashwood Avenue Ventura, CA 93003-0000

Contact: Savanna Vrevich



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Rincon 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. EDRs 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 Res	ults:	Coordinates:	
P.O.#	23-15573	Latitude:	36.854278 36° 51' 15" North
Project:	NA	Longitude:	-120.446077 -120° 26' 46" West
-		UTM Zone:	Zone 10 North
		UTM X Meters:	727692.27
		UTM Y Meters:	4081751.98
		Elevation:	149.00' above sea level
Maps Provid	ded:		

Maps Provided:

2021	1946
2018	1941
2015	1923
2012	
1984	
1962	
1956	
1947	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets



2021 7.5-minute, 24000



Poso Farm 2021 7.5-minute, 24000

2018 Source Sheets



Firebaugh 2018 7.5-minute, 24000



Poso Farm 2018 7.5-minute, 24000

2015 Source Sheets



Firebaugh 2015 7.5-minute, 24000



Poso Farm 2015 7.5-minute, 24000

2012 Source Sheets



Firebaugh 2012 7.5-minute, 24000



Poso Farm 2012 7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1984 Source Sheets



Poso Farm 1984 7.5-minute, 24000 Aerial Photo Revised 1981



Firebaugh 1984 7.5-minute, 24000 Aerial Photo Revised 1981

1962 Source Sheets



Firebaugh 1962 15-minute, 62500

1956 Source Sheets



Firebaugh 1956 7.5-minute, 24000 Aerial Photo Revised 1955

1947 Source Sheets



Firebaugh 1947 7.5-minute, 24000



Pozo Farm 1947 7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1946 Source Sheets



Firebaugh 1946 15-minute, 62500 Aerial Photo Revised 1946

1941 Source Sheets



Firebaugh 1941 7.5-minute, 31680

1923 Source Sheets



Firebaugh 1923 7.5-minute, 31680

SW

S

SE

W

SW

S

SE

Rincon

CLIENT:

W

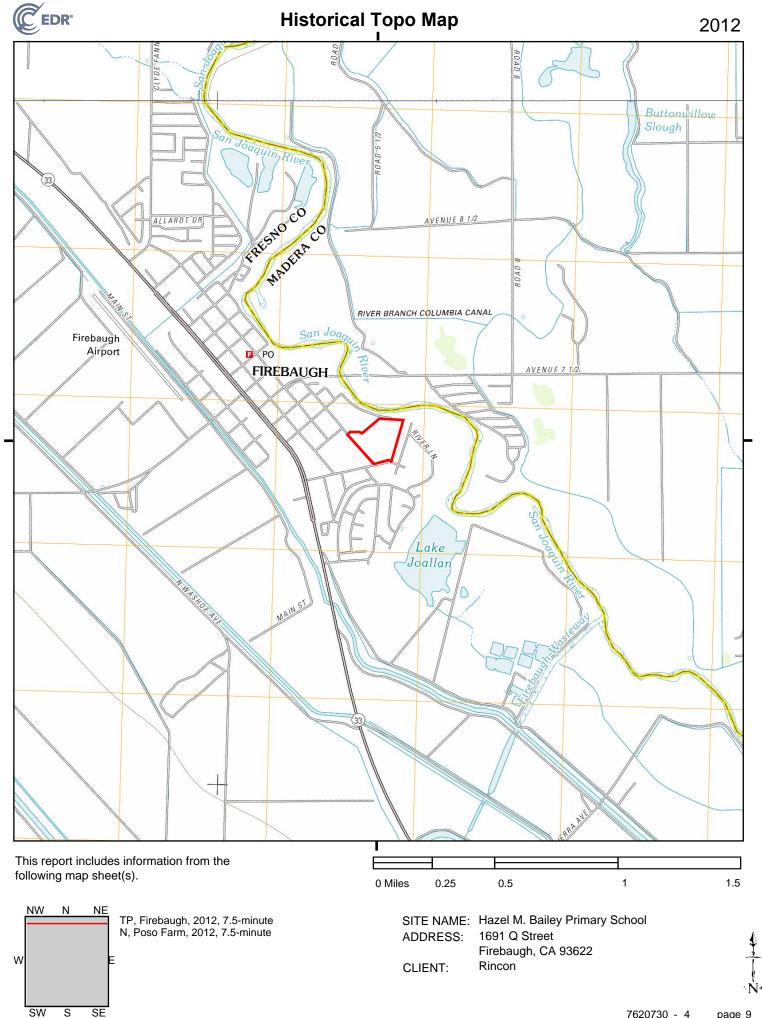
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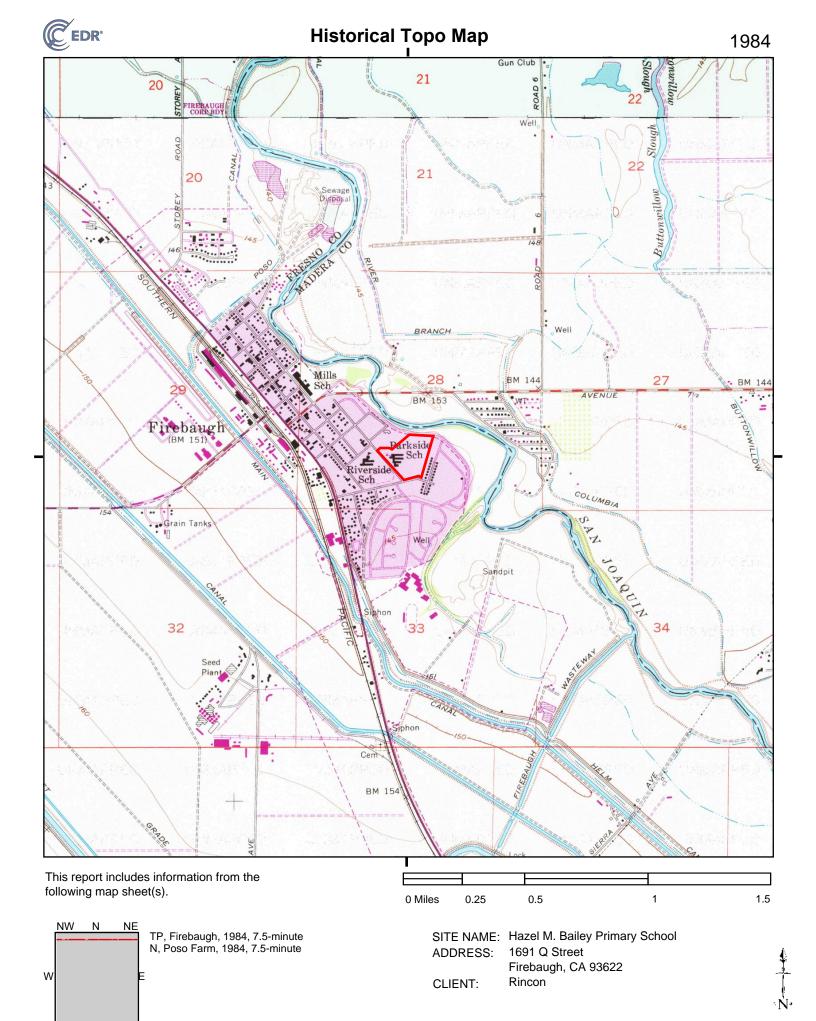
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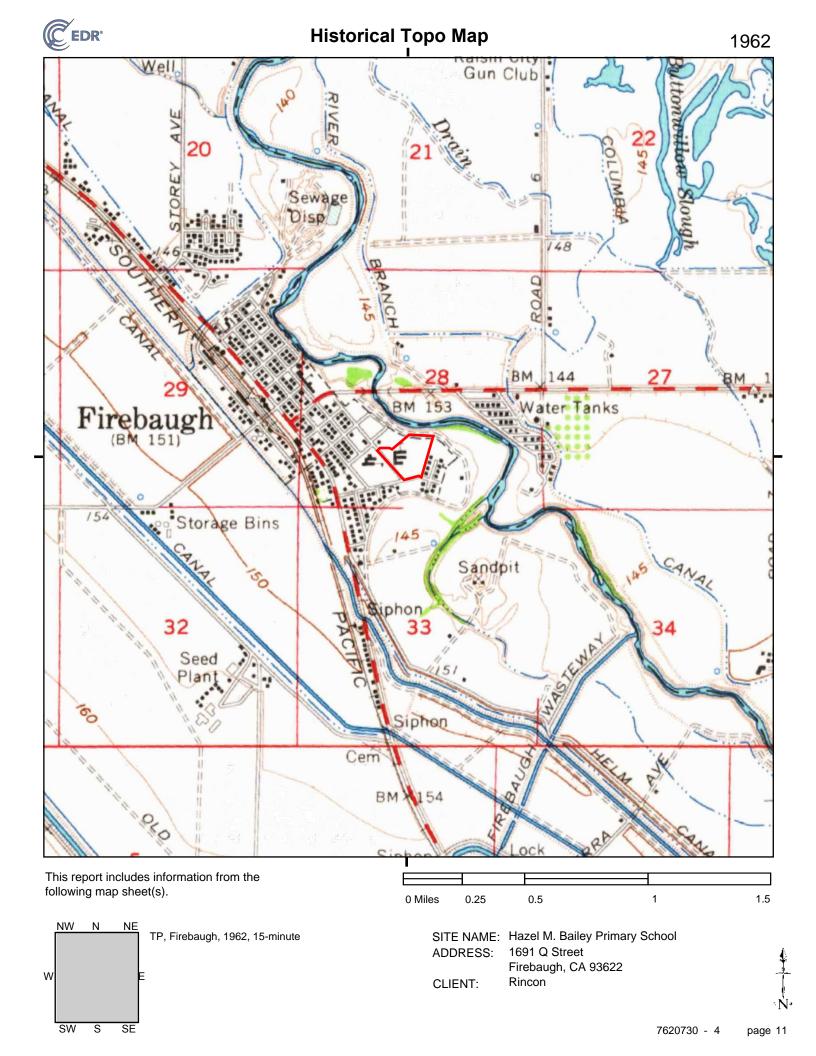
Rincon

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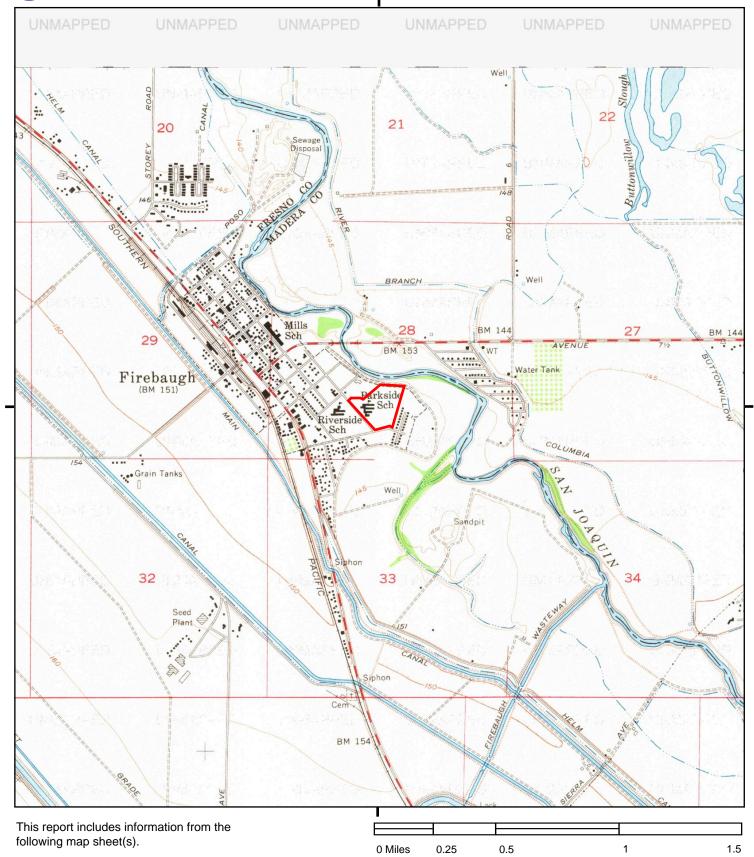


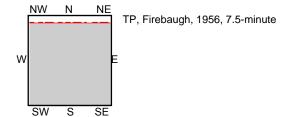


SW









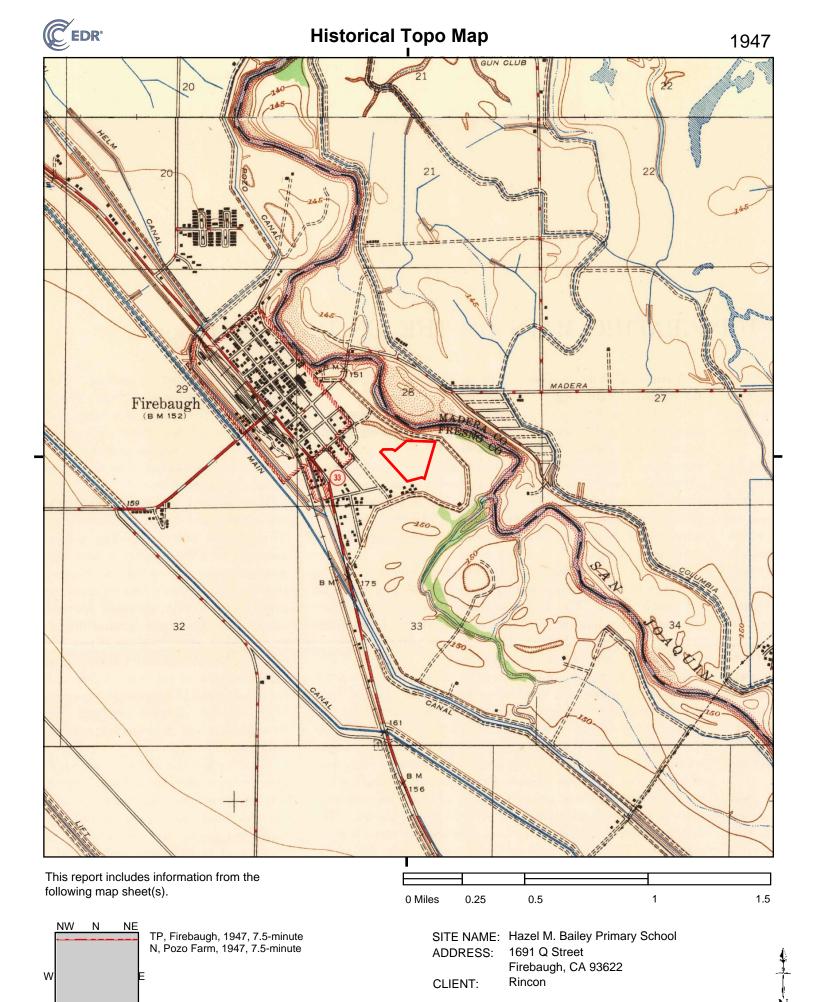
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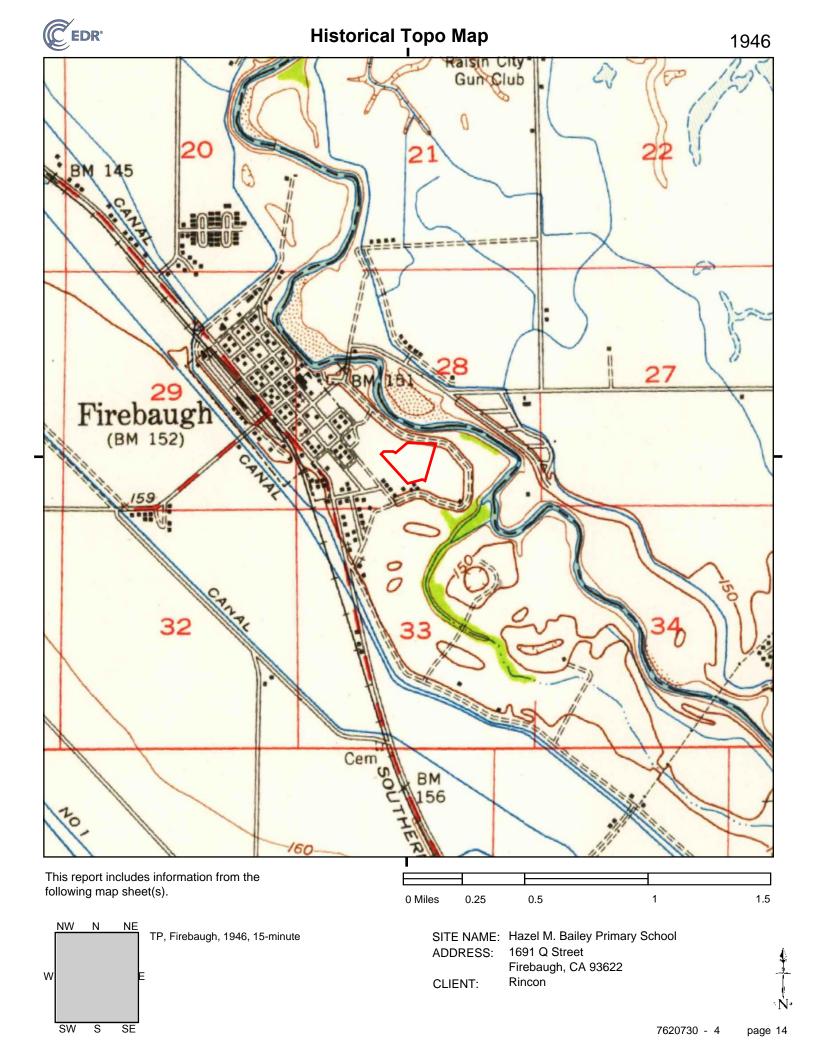
ADDRESS: 1691 Q Street

Firebaugh, CA 93622

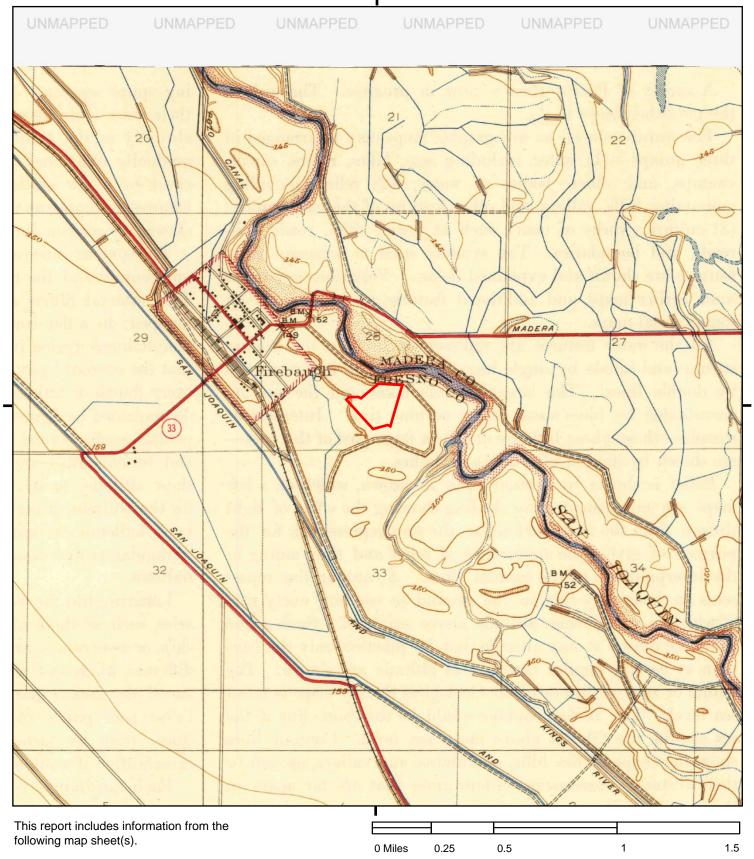
CLIENT: Rincon











TP, Firebaugh, 1941, 7.5-minute

SITE NAME: Hazel M. Bailey Primary School

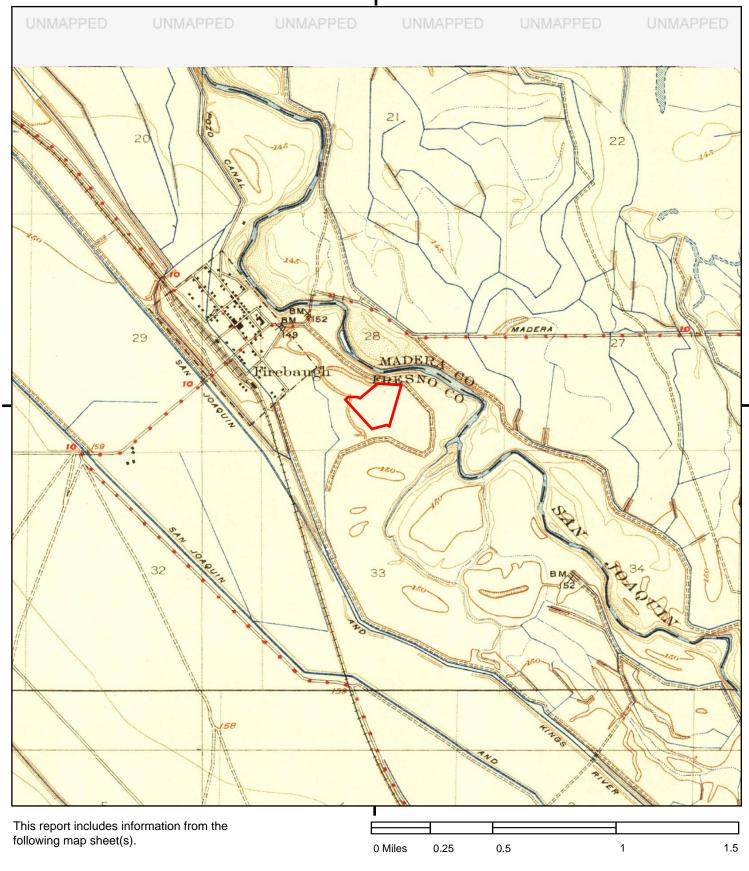
ADDRESS: 1691 Q Street

Firebaugh, CA 93622

CLIENT: Rincon







TP, Firebaugh, 1923, 7.5-minute

SITE NAME: Hazel M. Bailey Primary School

ADDRESS: 1691 Q Street

Firebaugh, CA 93622

CLIENT: Rincon



Hazel M. Bailey Primary School 1691 Q Street Firebaugh, CA 93622

Inquiry Number: 7620730.5

April 15, 2024

The EDR-City Directory Image Report



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City Directory Images

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 Report 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 Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2020	$\overline{\checkmark}$	$\overline{\checkmark}$	EDR Digital Archive
2017	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2014	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2010	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2005	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
2000	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
1995	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
1992	$\overline{\checkmark}$	$\overline{\checkmark}$	Cole Information
1990	$\overline{\checkmark}$	$\overline{\checkmark}$	Haines Criss-Cross Directory
1985	$\overline{\checkmark}$	$\overline{\checkmark}$	Haines Criss-Cross Directory
1980	$\overline{\checkmark}$	$\overline{\checkmark}$	Haines Criss-Cross Directory
1975	$\overline{\checkmark}$	$\overline{\checkmark}$	Haines Criss-Cross Directory
1973		$\overline{\checkmark}$	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

1691 Q Street Firebaugh, CA 93622

Year	<u>CD Image</u>	Source
<u>QST</u>		
2020	pg A6	EDR Digital Archive
2017	pg A13	Cole Information
2014	pg A18	Cole Information
2010	pg A25	Cole Information
2005	pg A32	Cole Information
2000	pg A38	Cole Information
1995	pg A42	Cole Information
1992	pg A45	Cole Information
1990	pg A47	Haines Criss-Cross Directory
1985	pg A49	Haines Criss-Cross Directory
1980	pg A52	Haines Criss-Cross Directory
1975	pg A55	Haines Criss-Cross Directory
1973	pg A58	Haines Criss-Cross Directory
1973	pg A59	Haines Criss-Cross Directory

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FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u>P ST</u>		
2020	pg.A2	EDR Digital Archive
2017	pg. A9	Cole Information
2014	pg. A14	Cole Information
2010	pg. A20	Cole Information
2005	pg. A27	Cole Information
2000	pg. A34	Cole Information
1995	pg. A39	Cole Information
1992	pg. A43	Cole Information
1990	pg. A46	Haines Criss-Cross Directory
1985	pg. A48	Haines Criss-Cross Directory
1980	pg. A50	Haines Criss-Cross Directory
1980	pg. A51	Haines Criss-Cross Directory
1975	pg. A53	Haines Criss-Cross Directory
1975	pg. A54	Haines Criss-Cross Directory
1973	pg. A56	Haines Criss-Cross Directory
1973	pg. A57	Haines Criss-Cross Directory

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P ST 2020

	1 01 2020
419	LUZ SANCHEZ
	WALTER SANCHEZ
425	WENDY GUERRERO
439	JOVITA DURAZO
447	JEANETTE BAEZA
	RUTH BAEZA
450	BENJAMIN SANTILLAN
458	ARNULFO HERNANDEZ
460	HUGO MACIASPEREZ
	KARINA CASTANEDA
465	PRISCILLA FERNANDEZ
467	GLORIA RUIZ
468	TORRES SANDOVAL
470	RENE GUTIERREZ
477	MARIA VALDOVINOS
500	ALEXANDRIA STEWART
	EVANGELINA HERCULES
	GEORGINA CANCHOLA
	IRENE REYNOSO
	JOEY BRIONES
	JOSIE GARCIA
	LINDA FRANKLIN
	MARIA ARIAS
	SAN JOAQUIN VISTA APARTMENTS
	STEPHANIE DAWSON
	VANESSA PATLAN
	VICTORIA BRIONES
	VIOLET GUZMAN
513	YVONNE PATLAN
513	ABEL CORTEZ MARIBEL CORTES
	MAYRA CORTES
	PATRICIA CORTES
	SERGIO CORTES
527	AARON DELGADO
521	CARLA DELGADO
	DANIELLA ZALAPA
	ISIDRO DELGADO
	KAREN DELGADO
	REYNALDA DELGADO
541	ERNESTO ROMERO
341	FERNANDO GUTIERREZ
555	DAVID PRIETO
555	ELIDA PRIETO
	OMAR PEREZ
	OSCAR PEREZ
	RODOLFO PEREZ
569	MARIA AVILA
309	THERESA MEZA
583	FRANK PEREZ
303	

Target Street	Cross Street	<u>Source</u>
-	✓	EDR Digital Archive

583	
	JIMMY FLORES
597	
	MARICELA MURPHY
	MONROE MURPHY
600	CHRISTINA MONTES
	FIREBAUGH GARDEN APARTMENTS
	JUANA MORALES
	MAYRA PEREIRA
	MIGUEL CERVANTES
	ROSARIO MONTES
	SAIS SHIDIYWAH
	SAMANTHA MORALES
750	
785	JUANA GAETA
807	
82′	JOHN BORBOA
822	
	MAYRA GUILLEN
	ODELVA GUILLEN
833	JOHN BORBOA
836	
	PETE SOSA
837	
	LYDIA SOSA
	PETE SOSA
843	
848	
	PETE SOSA
856	
86′	
	PETE SOSA
864	
889	
	ROSENDO GALLEGOS
927	
	PEDRO CERVANTES
930	
952	
964	
004	MARIA BETANCOURT
981	
991	
	JOSEFINA ALANIZ
000	JUANITA MARQUEZ
992	
4.0-	JUAN PORTILLO
107	
108	
109	1 ACADEMY WEST INSURANCE

Target Street	Cross Street	<u>Source</u>
-	✓	EDR Digital Archive

		 (Solit a)
1133	ELECTRIC CHARGING STATION	
	FIREBAUGH CITY HALL	
1170	SARAH GOMEZ	
1191	A E MILLS INTERMEDIATE SCHOOL	
1312	ATM	
	WESTAMERICA BANK	
1325	CRISTAL SANCHEZ	
	MARU SANCHEZ	
4000	RAMON SANCHEZ	
1326	JORGE SOLANO	
1350	MARTHA SOLANO EDWARD CORONADO	
1330	SADIE NAVARRO	
	TERESA CORONADO	
1355	BRADFORD BORBOA	
1333	CYNTHIA MADRIGAL	
	JAMES GARCIA	
1362	BETH CARTER	
1002	ROBERT ALLISON	
	WILLIAM CARTER	
1401	AMY LEDFORD	
	MAURICE LEDFORD	
1402	MARIA AGREDANO	
	NOHEMI CESENA	
	SALVADOR AGREDANO	
1414	DAVID VICKERY	
	GINA-MARIE BEHRENS	
	GWENDOLYN ARDIZZONE	
	MARY GARCIA	
1437	DANIEL THARP	
	DENISE THARP	
	PATRICIA THARP	
	ROBERT THARP	
1444	DEBORAH GARDNER	
	JENS GARDNER	
4.450	LARS GARDNER	
1450	JESSICA VASQUEZ	
	LETICIA VASQUEZ	
	MANUEL VASQUEZ	
1.460	SALVADOR VASQUEZ AUGUSTINE LUNA	
1463	CHERYL RUIZ	
	MARCUS LUNA	
	ROSIE LUNA	
	SALVADOR LUNA	
1468	MARIA DAVILA	
1497	JUSTIN DEDMON	
	LORI DEDMON	
1525	JARRY KWOCK	
-	NORA KWOCK	

			EDR Digital Alchive
	P ST	2020	(Cont'd)
1534 CARMEN ELVIRA R	RIOS		
JENNIE M	TH MOSER MOSER		
1545 ESPARZA JOSE AVA			
	. JARAMILLO T SANCHEZ		
	CE MARKS		
) GONZALES		
1580 JOHN JO			
GERALD	STANEDA CASTANEDA ECASTANEDA		
LAGETTE	CONSTANEDA		

Cross Street

Source

EDR Digital Archive

Target Street

Target Street	Cross Street	<u>Source</u>
✓	-	EDR Digital Archive

Q ST 2020

		Q O I	2020
511	ANGELICA TORREZ		
	LUCIO TORRES		
	MANUEL TORRES		
	MARIA TORRES		
512	CORINA MARTINEZ		
	HORTENCIA MARTINEZ		
	NICOLE MARTINEZ		
525	SURINDER SINGH		
	TIRATH SINGH		
526	ANGELICA SILVA		
	ANTONIO SILVA		
	DEISY SILVA		
	JACQUELINE SILVA		
539	ABRAHAM GUADIAN		
	ALEJANDRA GUADIAN		
	MARIA GUADIAN		
540	ELSA LOPEZ		
553	DOMINGO ARGUETA		
	JOAQUIN ZAVALA		
	SHELLY ZAVALA		
554	AMADO CONTRERAS		
	GLORIA CONTRERAS		
	ROSA CONTRERAS		
567	LILIA TORRES		
	MARIA ORNELAS		
	ROSANA TORRES		
568	ERIC ANTUNEZ		
581	BRENDA LOPEZ		
	CARMEN LOPEZ		
	DESTINY LOPEZ		
	EULOGIO CURIEL		
	EULOGIO LOPEZ		
	MARIA SALCEDA		
	OSCAR LOPEZ		
582	HENRY IRAHETA		
	JORGE MADRIZ		
595	EVERARDO GALLEGOS		
	HECTOR GALLEGOS		
596	ANTONIO MORA		
	CAROLINA MORA		
744	KENNETH SHUEMAKE		
	PAMELA SHUEMAKE		
	PAT SHUEMAKE		
761	JUAN CASTANEDA		
	MARIA CASTANEDA		
762	GUADALUPE MURGO		
	JUAN CAMPOS		
	MARIA MURGO		
768	ALFREDO ONOFRE		
777	NICOLE RENFRO		

Target Street	Cross Street	<u>Source</u>
✓	-	EDR Digital Archive

Q ST 2020 (Cont'd)

		 (Joint a)
777	SUSAN RENFRO	
874	ANTHONY SABLAN	
875	FIREBAUGH RIVERFRONT INN	
920	CHARLOTTE SIMMONS	
940	CATALINA HURTADO	
	ROY PROVENCIO	
950	BRIDGETTE BARRAGAN	
	GARY BARRAGAN	
	MELODY BARRAGAN	
984	ALEX MADRID	
	ROSE GONZALES	
986	PATRICIA MILLER	
1002	CESAR MAGANA	
1002	MENDELL BARBOSA	
1032	DAVID VILLALVAZO	
1032	SHIRLEY SANCHEZ	
1052	JOSE MELENDEZ	
1052	VALENTINA MELENDEZ	
4000	CHRISTOPER DEMMERS	
1062		
1082	FILIBERTO MORALES	
1086	ANGEL GALLEGOS	
	JOSE GALLEGOS	
1320	PATRICK RAMIREZ	
	PETE RAMIREZ	
	SUSAN RAMIREZ	
1329	JANICE KEYS	
	MITCHELL KEYS	
1368	ALEJANDRO AGUILAR	
	SOCORRO RAMIREZ	
1375	ALEX VILLICANA	
1401	DAVID VANPELT	
	MARY VAN PELT	
	PELT VAN PELT	
1444	BRAYAN GUILLEN	
	JEREMY GUILLEN	
	KEVIN GUILLEN	
	NORMA GUILLEN	
	SALVADOR GUILLEN	
1461	GUADALUPE OVALLES	
	MARIE OVALLES	
1526	CONSUELO TABARES	
	HEATHER TABARES	
	RAQUEL TABARES	
	RODOLFO TABARES	
1538	AMITY DUKE	
1000	ASHLEY DUKE	
	AUDRIA DUKE	
	FIRST BAPTIST CHURCH	
	MICHAEL DUKE	
	SANDRA DUKE	

Target Street Cross Street Source

→ - EDR Digital Archive

Q ST 2020 (Cont'd)

1691 CALDERON ROSA MARIA

EDUCARE SERVICES

FIREBAUGH LAS DELTAS UNIFIED FRESNO COUNTY ECONOMIC OPPRTNT HAZEL M BAILEY PRIMARY SCHOOL

JAUREGUI KAREN MANCHA MALERY MENDEZ YVETTE L

VERDUGO LOPEZ MARIA D

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2017

410	SANCHEZ 1117 A
419	SANCHEZ, LUZ A
421	GAMINO, CELIA
423	MORALES, M
425	GUERRERO, ANA L
427	MEJIA, YESENIA
429	RAMIREZ, RICKY F
435	RODRIGUEZ, JOSE L
439	DURAZO, FRANK L
441	PEREZ, OMAR
443	HARRIS, EDWARD
447	BAEZA, MONSRRAT
450	SANTILLAN, BENJAMIN F
451	CASTILLO, VERONICA
453	CERVANTES, LORENA
454	MONTOYA, ROSALBA
455	GARCIA, JOSE
456	MEZA, JOSE
458	HERNANDEZ, ARNULFO
459	RUBIO, GUILLERMO
460	MACIAS, MOSES
461	VALDOVINOS, MARIA
462	GONZALEZ, BELINA O
465	FERNANDEZ, PRISCILLA
467	RUIZ, MARIA
468	TORRES, SHARON
469	ALVAREZ, PATRICIA
470	GUTIERREZ, JOSE
471	PEREZ, ANAVEL
473	MEDEL, JOSE L
474	RAMOS, HERIBERTO
475	VIRGINIA, CANO
473 477	MARTINEZ, JAMES A
477 478	CASTRO, JESUS
	•
479	FLORES, CARMENT
480	RUIZ, MARIA E
481	DOYLE, VANESSA M
484	LEON, HIPOLITO
500	ALTAHERI, ADEL
	ARIAS, MARIA
	BRIONES, JAREK G
	CANCHOLA, RAMON J
	CASTELLANOS, LUIS C
	CLARK, APPOLLONIA
	DELAPAZ, NOE
	FLORES, CARMELA
	FLORES, MONICA S
	FRAGA, A
	FRANKLIN, JACK F
	GALLEGO, SELENE
	GUZMAN, VIOLET E

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

500	HERCULES, EVANGELINA I	
	HERNANDEZ, DULCE	
	HERRERA, JUAN	
	LAMAS, CARLOS J	
	LUJAN, MARIBEL	
	MARTINEZ, DANIEL B	
	MEJIA, BENITO M	
	ORTIZ, GEORGE H	
	REYNOSO, IRENE	
	RIOS, NORMA	
	SALGADO, ROBERTO	
	·	
	SAN JOAQUIN VISTA APARTMENTS	
	SEARCY, IRENE	
	SEVILLA, MIRIAM	
513	CORTES, SERGIO	
527	DELGADO, AARON A	
541	PARRA, CRISTOBAL	
555	PRIETO, DAVID V	
569	AVILA-CHAVEZ, MARIA T	
583	FLORES, JIMMY S	
597	MURPHY, MANUEL A	
600	ALDERETTE, ROSALINDA	
000		
	BARRERA, DAISY	
	BUSTAMANTE, ESTRADA	
	CAMACHO, NANCY	
	CERVANTES, MARIA	
	DIAZ, RODOLFO	
	ESPINOZA, MARIA G	
	FIREBAUGH GARDEN APARTMENTS	
	GONZALEZ, ROSA I	
	GUTIERREZ, BRENDA	
	LOPEZ, CLAUDIA	
	LUNA, GLORIA M	
	MARTINEZ, JOSEPH M	
	MARTINEZ, SHREYASI	
	MONTEJANO, KARINA	
	MONTES, CRISTINA	
	MORALES, JUANA M	
	MORALES, SAMANTA A	
	NAJERA, ADRIAN	
	PEREIRA, MAYRA A	
	PINON, IRENE	
	PONCE, DANIEL	
	POSADAS, MEDALIO	
	RAMOS, BULMARO	
	RESENDIZ, ANGELINA	
	SALCEDO, RODRIGO	
	VILLA, ADOLFO	
740	·	
743	CARDOZA, JOSE A	
750	MEDINA, CARLOS	

	1 01 2011
754	CORTEZ JOUN
754	CORTEZ, JOHN
761	HERNANDEZ, MARIA
763	RODRIGUEZ, FRANCISCO
766	RODRIGUEZ, M
770	REBOLLEDO, ADDA J
785	ESPINOSA, DANIEL
807	SALDIVAR, RAY
833	BORBOA, ESCOLASTICO C
837	NAVA, VERENICE
843	PACHECO, JESUS M
848	SOSA, PETE
856	TORRES, EFRAIN D
861	RAMIREZ, MAX
874	SANDOVAL, PEDRO S
889	GALLEGOS, ROSENDO R
939	GARCIA, FERMIN
944	HERNANDEZ, NORMA
948	MORALES, NORMA
964	MAGDALENO, CRYSTAL D
981	MARQUEZ, JAVIER S
	RUBIO, ZAMMARNTA A
	SAMARRIPA, IRENE
991	ALANIZ, EDUARDO
992	FIREBAUGH RESTAURANT
1032	PAGANUCCI S MOTEL & COCKTAIL LOUNGE
1049	RODRIQUEZ, DEREK
1069	OCEGUEDA, J
1074	WHITEHURST FUNERAL CHAPEL
1085	W O R M AG INC
1091	ACADEMY WEST INSURANCE SERVICES
1133	CITY OF FIREBAUGH
1170	GOMEZ, ROSIE A
1172	PRECIADO, ROSIE
1174	VASQUEZ, DENNIS A
1191	FIREBAUGH LAS DELTAS UNIFIED SCHOOL
1242	BRAVO, BELEN
1264	GOMEZ, MANUEL
4040	WARD, JUDY
1312	WESTAMERICA BANK
1325	SANCHEZ, RAMON R
1326	SOLANO, JORGE
1338	RIVERA, DANIEL
1350	HERMOSILLO, VICTOR
1355	AYALA, BLANCA
1362	ALLISON, ROBERT W
1367	STEWART, ALEXANDRIA M
1401	LEDFORD, MAURICE L
1402	AGREDANO, SALVADOR
1437	THARP, ROBERT A
1444	GARDNER, GILBERT C

1450 VASQUEZ, MANUEL 1488 DAVILA, ERIC L 1497 DEDMON, JUSTIN S 1524 DIEDRICH, JAMES J 1534 RIOS, MANUEL 1542 MOSER, MICHELLE M 1546 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1566 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE 1585 CASTANEDA, LASETTE M		-	~		Cole Information	
1468 DAVILA, ERIC L 1497 DEDMON, JUSTIN S 1524 DIEDRICH, JAMES J 1534 RIOS, MANUEL 1542 MOSER, MICHELLE M 1545 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE			P ST	2017	(Cont'd)	
1497 DEDMON, JUSTIN S 1524 DIEDRICH, JAMES J 1534 RIOS, MANUEL 1542 MOSER, MICHELLE M 1545 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE						
1524 DIEDRICH, JAMES J 1534 RIOS, MANUEL 1542 MOSER, MICHELLE M 1545 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE						
1534 RIOS, MANUEL 1542 MOSER, MICHELLE M 1545 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE						
1545 ESPARZA, JAIME A 1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE	1534	RIOS, MANUEL				
1550 MILLER, ARTIE M 1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE						
1560 MARKS, CLARENCE T 1565 GONZALES, ANTONIO 1580 MENDEZ, ENRIQUE						
1580 MENDEZ, ENRIQUE		MARKS, CLARENCE T				
			Л			

Cross Street

<u>Source</u>

Target Street

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

Q ST 2017

	Q 01 201
511	TORRES, MANUEL P
512	MARTINEZ, ERNESTO H
525	SINGH, TIRATH K
526	TOPETE, BENJAMIN R
539	GUADIAN, ABRAHAM
540	LOPEZ, ELSA I
554	CONTRERAS, GLORIA L
567	TORRES, RENE T
568	GUZMAN, ELOY G
581	LOPEZ, EULOGIO L
596	MORA, ANTONIO Z
744	SHUEMAKE, KENNETH P
761	CASTANEDA, JUAN
762	MANES, FANNY M
766	GONZALEZ, PATSY
777	RENFRO, SUSAN A
862	ADELA, SOLIS
875	CROWELL, JAMES D
	FIREBAUGH RIVERFRONT INN
	RAMOS, ADRIANNA
940	HURTADO, CATALINA S
950	BARRAGAN, GARY M
974	BARRAGAN, MICHAEL A
976	TORRES, EVANGELINA
986	MILLER, JESSICA L
1002	MAGANA, CESAR
1032	ATKINS, DOROTHY D
1052	JOSE, MELENDEZ S
1062	DEMMERS, CHRISTOPER B
1082	CRUZ, VARGAS E
1086	GALLEGOS, ANGEL J
1320	RAMIREZ, PETE P
1329	KEYS, MITCHELL A
1375	VILLICANA, ALEX
1408	OHNSTEAD, ZACHARY
1444	MARTINEZ, ESTEBAN
1456	FLOOD, MATHEW S
1461	MARTINEZ, MICHAEL A
1538	DUKE, MICHAEL L
	FIRST BAPTIST CHURCH
1691	EDUCARE SERVICES
	FIREBAUGH LAS DELTAS UNIFIED SCHOOL

P ST 2014

419	SANCHEZ, LUZ A
421	GAMINO, CELIA
423	MORALES, M
425	OCCUPANT UNKNOWN,
427	MEJIA, JOSE D
429	CANTELARIA, BETTY F
431	OCCUPANT UNKNOWN,
433	OCCUPANT UNKNOWN,
435	RODRIGUEZ, JOSE L
437	OCCUPANT UNKNOWN,
439	CISNEROS, CELERINA
441	FRAGA, GUTIERREZ
443	HARRIS, EDWARD
445	OCCUPANT UNKNOWN,
447	PATLAN, STEVEN
449	TAVAREZ, STEVEN
450	SANTILLAN, BENJAMIN F
451	CASTILLO, VERONICA
452	NAVA, JOSE S
454	MONTOYA, ROSALBA
455	GARCIA, JOSE
456	OCCUPANT UNKNOWN,
457	OCCUPANT UNKNOWN,
458	HERNANDEZ, ARNULFO
459	RUBIO, GUILLERMO
460	MACIAS, MOSES
461	VALDOVINOS, MARIA
462	GONZALEZ, BELINA O
463	CAMPBELL, ELISHA
464	BERBER, BENJAMIN
465	FERNANDEZ, PRISCILLA
466	CONTRERAS, GUILLERMINA
467	RUIZ, MARIA
468	SANDOVAL, TORRES
469	ALVAREZ, PATRICIA
470	GUTIERREZ, JOSE
471	PEREZ, ANAVEL
	VALDOVINOS, ANAVEL C
472	OCCUPANT UNKNOWN,
473	MEDEL, JOSE L
474	OCCUPANT UNKNOWN,
475	VIRGINIA, CANO
476	OCCUPANT UNKNOWN,
477	OCCUPANT UNKNOWN,
478	CASTRO, JESUS
478 479	FLORES, CARMENT
480	RUIZ, MARIA E
480 481	OCCUPANT UNKNOWN,
482	OCCUPANT UNKNOWN,
484	LEON, HIPOLITO
404	LEON, HIPOLITO

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

		_
500	AGREDANO, JUAN M	
	ALCOCER, ROSARIO	
	ARIAS, JOSIE G	
	ARREOLA, ELIAS	
	BALTIERRA, MICHAEL A	
	BARRIOS, CARLOS V	
	BECERRA, ARMANDO	
	CANCHOLA, RAMON J	
	CASTELLANOS, LUIS C	
	CONCHA, MARIA	
	ESTRADA, CAMILO N	
	FERREIRA, CHITA	
	FRAGA, A	
	FRANKLIN, JACK F	
	GARCIA, JOSEFINA R	
	LAMAS, CARLOS J	
	LUJAN, MARIBEL MEJIA, BENITO M	
	MENDOZA, MARIA L	
	NANCY, SALGADO	
	PATLAN, VANESSA R	
	REBOLLEDO, MOISES	
	RIOS, ADAM	
	RODRIGUEZ, JOVANY	
	SALSEDO, MANUELA	
	SAN JOAQUIN VISTA APARTMENTS	
	SEARCY, IRENE	
	SILVA, LUIS	
	SILVA, MARIA M	
513	CORTES, SERGIO	
527	DELGADO, CARLA M	
541	OCCUPANT UNKNOWN,	
555	OCCUPANT UNKNOWN,	
569	OCCUPANT UNKNOWN,	
583	FLORES, JIMMY S	
597	MURPHY, MANUEL A	
599	MANJARREZ, DIANA	
600	ALDERETTE, ROSALINDA	
	BARRERA, DAYSI	
	BRIONES, JAREK G	
	BROWN, JEFFERY S	
	BUSTAMANTE, ESTRADA	
	CARDIEL, LORI	
	CERVANTES, MARIA	
	DIAZ, RODOLFO	
	ESPINOZA, MARIA G	
	FIREBAUGH GARDEN APARTMENTS	
	GUTIERREZ, BRENDA	
	JARAMILLO, FABIOLA	

MARTINEZ, JOSEPH M

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

	- (
600	MONTEJANO, KARINA
	MONTES, CRISTINA
	MORALES, ISRAEL N
	MORALES, JUANA M
	MORALES, RICK
	NAJERA, ADRIAN
	PEREZ, RAFAEL M
	ROMERO, RICARDO
	SALCEDO, RODRIGO
	VELASQUEZ, JUAN M
	VILLA, ADOLFO
743	OCCUPANT UNKNOWN,
750	MEDINA, CARLOS
754	CORTEZ, JOHN
754 758	OCCUPANT UNKNOWN,
762	OCCUPANT UNKNOWN,
	·
763 766	RODRIGUEZ, GUADALUPE
	RODRIGUEZ, M
770	RIVERA, MARIA
807	OCCUPANT UNKNOWN,
822	GUILLEN, CARLOS
000	OCCUPANT UNKNOWN,
833	OCCUPANT UNKNOWN,
836	WILLIAMS, I
837	NAVA, FRAGA B
0.42	OCCUPANT UNKNOWN,
843	OCCUPANT UNKNOWN,
848	GORDILLO, AGUSTIN A
861	RAMIREZ, MAX
864	VARELA, LISSA
874	OCCUPANT UNKNOWN,
889	GALLEGOS, ROSENDO R
891	OCCUPANT UNKNOWN,
892	OCCUPANT UNKNOWN,
900	DANAS PEST & TERMITE CONTROL
004	TERMINIX
901	OCCUPANT UNKNOWN,
914	OCCUPANT UNKNOWN,
916	OCCUPANT UNKNOWN,
918	OCCUPANT UNKNOWN,
927	CERVANTES, PORFIRIO
930	ONTIVEROS, ELOY P
	PERAZA, ANGULO G
000	VILLEGAS, GABRIELA
939	BUSTAMANTE, M
944	OCCUPANT UNKNOWN,
946	OCCUPANT UNKNOWN,
948	MORALES, NORMA
952	MARTIN, GAROLD J
964	MAGDALENO, CRYSTAL D

Target Street Cross Street Source
- Cole Information

P ST 2014 (Cont'd)

981	MARQUEZ, JAVIER S
301	RUBIO, ZAMMARNTA A
991	ALANIZ, EDUARDO
992	FIREBAUGH RESTAURANT
1032	PAGANUCCIS MOTEL & COCKTAIL LOUNGE
1074	WHITEHURST CHAPELSFIREBAUGH
1085	W O R M AG INC
1091	ACADEMY WEST INSURANCE SERVICES
1133	CITY OF FIREBAUGH
1166	OCCUPANT UNKNOWN,
1170	OCCUPANT UNKNOWN,
1174	VASQUEZ, DENNIS A
1191	FIREBAUGH LAS DELTAS UNIFIED SCHOOL
1242	BRAVO, BELEN
1264	GOMEZ, MANUEL
	KWOCK, HARRY
	PENDLETON, DALLAS E
	ROBLES, YOLANDA P
1312	WESTAMERICA BANK
1325	SANCHEZ, RAMON V
1326	SOLANO, JORGE
1338	OCCUPANT UNKNOWN,
1355	OCCUPANT UNKNOWN,
1362	CARTER, WILLIAM T
1367	STEWART, ALEXANDRIA M
1401	LEDFORD, MAURICE L
1402	CHAVARRIA, ANTONIO
1414	GILL, RAY A
1437	THARP, ROBERT A
1444	GARDNER, GILBERT C
1450	VASQUEZ, SALVADOR M
1463	NEGRETE, ROSIE
1468	DAVILA, ERIC L
1497	DEDMON, JUSTIN S
1514	VASQUEZ, JESSICA
1524	DIEDRICH, JAMES J
1525	KWOCK, HARRY
1534	RIOS, MANUEL
1542	MOSER, MICHELLE M
1545	ESPARZA, JAIME A
1550	MILLER, ARTIE M
1560	MARKS, CLARENCE T
1565	KNIGHT, RAY R
1580 1585	COWETT, DALE F
1585	CASTANEDA, LASETTE M

Target Street

Cole Information

Q ST 2014

	Q 01
511	TORRES, MANUEL P
512	MARTINEZ, ERNESTO H
525	SINGH, TIRATH K
526	TOPETE, BENJAMIN R
539	GUADIAN, ABRAHAM
540	LOPEZ, ELSA I
553	ZAVALA, JOAQUIN
554	CONTRERAS, GLORIA L
567	TORRES, ROSANA
568	GUZMAN, ELOY G
581	LOPEZ, EULOGIO C
582	MOHAMED, WADHAH
595	GALLEGOS, HECTOR A
596	MORA, ANTONIO Z
744	SHUEMAKE, KENNETH P
761	CASTANEDA, JUAN
762	GUADALUPE, MURGO
766	GONZALEZ, PATSY
768	MERANDA, LORENA
777	RENFRO, SUSAN A
838	OCCUPANT UNKNOWN,
862	ADELA, SOLIS
874	ORTIZ, GEORGE H
875	FIREBAUGH RIVERFRONT INN
920	CHARLOTTE, SIMMONS
922	OCCUPANT UNKNOWN,
940	HURTADO, CATALINA S
950	BARRAGAN, GARY M
974	WILLIAMS, ROBERT L
976	TORRES, EVANGELINA
984	OCCUPANT UNKNOWN,
986	MILLER, JESSICA L
1002	MAGANA, CESAR
1032	IKE, SANCHEZ
1052	JOSE, MELENDEZ
1062	DEMMERS, CHRISTOPER B
1082	CRUZ, VARGAS E
1086	GALLEGOS, ANGEL J
1320	RAMIREZ, PETE P
1329	KEYS, MITCHELL A
1368	OCCUPANT UNKNOWN,
1375	VILLICANA, ALEX
1401	OCCUPANT UNKNOWN,
1432	OCCUPANT UNKNOWN,
1444	OCCUPANT UNKNOWN,
1461	LEYVA, MICHELE
1526	TABARES, RODOLFO R
1538	DUKE, MICHAEL L
	FIRST BAPTIST CHURCH
1691	FIREBAUGH LAS DELTAS UNIFIED SCHOOL

Cole Information Q ST 2014 (Cont'd) 1694 BAILEY, HM

Cross Street

<u>Source</u>

Target Street

P ST 2010

	P
	041101157 1117 4
419	SANCHEZ, LUZ A
421	GAMINO, CELIA
423	OCCUPANT UNKNOWN,
425	RENDON, LEOBARDA N
427	BERRY, JOSHUA J
429	OCCUPANT UNKNOWN,
431	OCCUPANT UNKNOWN,
433	ALANIZ, VIRGINIA
435	RODRIGUEZ, JOSE L
437	LANDEROS, MANUEL
439	BERBER, BENJAMIN
441	MEJIA, FELIX
443	BAEZA, JEANETTE
445	OCCUPANT UNKNOWN,
447	BAEZA, RUTH
449	MEDINA, GUILLERMO
450	CARRASCO, MARIA
451	CASTILLO, VERONICA
452	NAVA, JOSE S
454	MONTOYA, ROSALBA
455	GARCIA, GUSTAVO
456	OCCUPANT UNKNOWN,
457	PEREZ, LUIS M
458	HERNANDEZ, ARNULFO
459	RUBIO, GUILLERMO
460	OCCUPANT UNKNOWN,
461	VALDOVINOS, MARIA
462	GONZALEZ, BELINA O
464	SANTILLAN, MARISOL B
465	FERNANDEZ, PRISCILLA
466	CONTRERAS, GUILLERMINA
467	RUIZ, MARIA
468	OCCUPANT UNKNOWN,
469	ALVAREZ, PATRICIA
470	GUTIERREZ, MIGUEL
471	CABRERA, DIEGO
473	GONZALEZ, BEATRIZ
474	RAMOS, HERIBERTO
475	CANO, VIRGINIA
476	RUIZ, LUIS
477	OCCUPANT UNKNOWN,
478	CASTRO, JESUS
479	FLORES, CARMENT
	•
480 481	RUIZ, MARIA E
481	OCCUPANT UNKNOWN,
482	OCCUPANT UNKNOWN,
484 500	LEON, HIPOLITO
500	AGUILAR, VICTOR
	ALEJANDRE, MAYRA J
	1

ALFARO, JUAN F

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

500	ANDRADE, LAURA
	ARIAS, JOSIE G
	CANCHOLA, GEORGINA A
	CASTRO, DIGNA M
	CHILENO, KARINA
	CONCHA, MARIA
	ESCALANT, CHRISTOPHER
	GARCIA, IVAN
	GARCIA, MARIBEL
	GOMEZ, JOSE A
	HERCULES, EVANGELINA
	HERNANDEZ, RIGOBERTO
	LAMAS, CARLOS J
	LIMON, JUANITA
	LOPEZ, MIGUEL
	MARTINEZ, MIGUEL
	MENDOZA, MARIA L
	NEVAREZ, OSCAR B
	OROZCO, MARIBEL
	PATLAN, K
	PINA, GREGORIO P
	QUINTANA, JOSE G
	RAMOS, HUMBERTO
	REBOLLEDO, MOISES
	RIOS, ADAM
	RODRIGUEZ, JAIME
	RUIZ, VERONICA
	SALSEDO, MANUELA
	SAN JOAQUIN VISTA APARTMENTS
	SEARCY, IRENE
	SILVA, LUIS
	SILVA, MARIA
	TORRES, JUAN G
	VACA, RAMON
	ZAPATA, MONICA
513	CORTEZ, ABEL
527	DELGADO, REYNALD
541	FLORES, RAMON P
555	PRIETO, DAVID E
583	FLORES, JIMMY S
597	MURPHY, MANUEL A
599	MANJARREZ, DIANA
600	BRIONES, VICTORIA
	BROWN, JEFFERY S
	CARDIEL, LON
	CERVANTES, HIPOLITO
	ESPINOZA, DIANA
	ESTRADA, ESTELLA
	FIREBAUGH GARDEN APARTMENTS
	EDANIOS STEDIJANJE D

FRANCO, STEPHANIE R

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

	<u> </u>
600	CALLECOS SELENE
600	GALLEGOS, SELENE
	GARCIA, MARIA GONZALES, WALLY L
	HERNANDEZ, JOANNA
	JARAMILLO, FABIOLA
	LARA, TERESA H
	MADRIZ, MARIA
	MARTINEZ, JESSE
	MONTES, CRISTINA
	MONTILLANO, CRYSTAL
	MORALES, JUANA M
	NUNEZ, JOANNA
	OCHOA, MARGARITA
	PEREIRA, MAYRA A
	PEREZ, RAFAEL M
	RAMIREZ, LEONOR
	SALCEDO, GUILLERMINA
	VACA, REY
	VALADEZ, JORGE
	VELASQUEZ, JUAN M
740	VILLA, ADOLFO
743	FRIAS, JOSEPH
750	GONZALEZ, SOFIA
754 758	OCCUPANT UNKNOWN,
761	RENTERIA, Y
761 762	OCCUPANT UNKNOWN, GORDILLO, ADRIAN
762 763	RODRIGUEZ, GUADALUPE
766	MURILLO, JUAN
700 770	RIVERA, MARIA
776 785	HERNANDEZ, NEREYDE
807	OCCUPANT UNKNOWN,
821	OCCUPANT UNKNOWN,
822	GUILLEN, CARLOS H
022	OCCUPANT UNKNOWN,
833	OCCUPANT UNKNOWN,
836	WILLIAMS, I
837	LOBATO, ENRIQUE
007	OCCUPANT UNKNOWN,
843	CALDERON, RODRIGO V
848	SOSA, PETE
856	GORDILLO, YOLANDA
861	RAMIREZ, MANUELA
864	OCCUPANT UNKNOWN,
874	MADRIGAL, DANIEL
889	GALLEGOS, ROSENDO R
891	BARRIOS, JULIO
892	SANDOVAL, PEDRO C
901	SANCHEZ, JOHN
914	OCCUPANT UNKNOWN,
.	

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

		 (Solit a)
_		
915	AGUILAR, MARIA D	
916	OCCUPANT UNKNOWN,	
918	OCCUPANT UNKNOWN,	
927	PALOMINO, SARA A	
930	PERAZA, MIGUEL A	
	PEREZ, MARGARITA	
939	OCCUPANT UNKNOWN,	
944	MARQUEZ, JAVIER S	
946	OCCUPANT UNKNOWN,	
948	ESTRADA, ISIDRO	
952	MARTIN, GAROLD J	
964	OCCUPANT UNKNOWN,	
981	CANELA, JAVIER	
	OCHOA, LIDIA	
	RUBIO, EMMA	
991	ALANIZ, EDUARDO	
1032	PAGANUCCIS MOTEL & LOUNGE	
1069	ROWE, LANA S	
1166	DELUNA, BLAS M	
1170	OCCUPANT UNKNOWN,	
1172	OCCUPANT UNKNOWN,	
1174	NAVARRO, NACHO	
1191	MILLS INTERMEDIATE SCHOOL	
1238	OCCUPANT UNKNOWN,	
1240	OCCUPANT UNKNOWN,	
1242	BRAVO, BELEN	
1244	OCCUPANT UNKNOWN,	
1246	OCCUPANT UNKNOWN,	
1248	PEREZ, ANTONIO	
1250	OCCUPANT UNKNOWN,	
1252	MACIAS, MARY H	
1254	OCCUPANT UNKNOWN,	
1264	ATONDO, WIILAM E	
	CASTELLANOS, MANUEL	
	ERNESTO, ARMANDO	
	GLASS, HEATHER	
	GOMEZ, MANUEL	
	KWOCK, HARRY	
	MANA, SALEH	
	MENDOZA, ADELAIDA	
	MUMBY, JASON	
	PENDLETON, DALLAS E	
	ROBLES, YOLANDA P	
4045	RODRIGUEZ-VELOZ, LORENA	
1312	WEST AMERICA BANK	
400-	WESTAMERICA BANK	
1325	SANCHEZ, RAMON V	
1326	SOLANO, JORGE	
1338	BALTIERRA, JOHN A	
1355	BORBOA, DUSTIN J	

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

1362	CARTER, WILLIAM T
1367	STEWART, ALEXANDRIA M
1401	LEDFORD, JOHN M
1402	LAUBACHER, MIKE A
1414	ARDIZZONE, EDWARD A
1437	THARP, ROBERT A
1444	GARDNER, GILBERT C
1450	VASQUEZ, SALVADOR M
1463	OCCUPANT UNKNOWN,
1468	DAVILA, ERIC L
1497	DEDMON, JUSTIN S
1524	DIEDRICH, JAMES J
1525	KWOCK, HARRY
1534	RIOS, MANUEL
1542	MOSER, JENNIE R
1545	JIMENEZ, JOSE C
1550	GREEN RIVER LANDSCAPING
	MILLER, ARTIE M
1560	MARKS, CLARENCE T
1565	KNIGHT, RAY R
1585	CASTANEDA, ABEL R

Q ST 2010

511	TORRES, MANUEL P
512	MARTINEZ, ERNESTO H
525	SINGH, SURINDER S
526	TOPETE, SILVA A
539	ABES CONSTRUCTION
	GUADIAN, ABRAHAM
540	LOPEZ, ELSA I
553	ZAVALA, JOAQUIN
554	CONTRERAS, GLORIA L
567	OCCUPANT UNKNOWN,
568	GUZMAN, ELOY G
581	LOPEZ, EULOGIO C
595	GALLEGOS, EVERARDO
596	MORA, ANTONIO Z
744	SHUEMAKE, KENNETH P
761	CASTANEDA, JUAN
762	MANES, FANNY M
766	OCCUPANT UNKNOWN,
768	CLARK, TWANA
777	RENFRO, SUSAN A
838	OCCUPANT UNKNOWN,
862	ARMENDARIZ, EDUARDO O
874	ORTIZ, GEORGE H
	ORTIZS PC MEDIC
875	FIREBAUGH RIVERFRONT INN
922	OCCUPANT UNKNOWN,
940	HURTADO, CATALINA S
950	BARRAGAN, GARY M
974	WILLIAMS, ROBERT L
976	CABRERA, OSCAR
984	OCCUPANT UNKNOWN,
986	MILLER, PATRICIA A
1002	OCCUPANT UNKNOWN,
1032	SANCHEZ, ISAAC S
1052	MELENDEZ, JOSE S
1062	OCCUPANT UNKNOWN,
1082	GUEVARA, MARIA M
1086	GALLEGOS, ANGEL J
1320	RAMIREZ, PETE P
1329	KEYS, MITCHELL A
1368	MOLINA, MICHAEL A
1375	RAMIREZ, SHAUN C
1401	OCCUPANT UNKNOWN,
1408	NELSON, ROLAND
1432	HENNING, MAX K
1444	OCCUPANT UNKNOWN,
1456	SANTILLAN, ALEJANDRA
1461	MARTINEZ, MICHAEL A
1526	OCCUPANT UNKNOWN,
1538	DUKE, MICHAEL L

		Q ST	2010	(Cont'd)
1691	HAZEL M BAILEY PRIMAR	RY SCHOOL		

Target Street Cross Street

<u>Source</u> Cole Information

440	041101157 1117
419	SANCHEZ, LUZ
421	OCCUPANT UNKNOWN,
423	BARRERA, ALBINA
425	RENDON, LEOBARDA
427	BERRY, JOSHUA J
431	OCCUPANT UNKNOWN,
433	MEDINA, FERNANDO
435	RODRIGUEZ, JOSE L
437	PEREZ, GRACIELA
439	SANCHEZ, EDELMIRA
443	GONZALEZ, YOLANDA
445	OCCUPANT UNKNOWN,
447	OCCUPANT UNKNOWN,
449	OCCUPANT UNKNOWN,
450	OCCUPANT UNKNOWN,
451	QUEZADA, LUIS
452	NAVA, JOSE S
453	OCCUPANT UNKNOWN,
454	OCCUPANT UNKNOWN,
455	OCCUPANT UNKNOWN,
456	CASTELLANOS, JOSE L
457	PEREZ, MARIA
459	OROSCO, MARIA M
460	CASTANEDA, JUAN
462	GONZALEZ, BELINA O
463	CASTRO, R
464	HERNANDEZ, ARMANDO R
465	ARREOLA, MAURA
467	RUIZ, MARIA
468	RIOS, MANUEL
469	MILLER, HELEN
470	OCCUPANT UNKNOWN,
471	GARCIA, RAYMOND
472	OCCUPANT UNKNOWN,
473	PMEDEL, HILDA
474	DERUIZ, ANGELICA
477	BERBER, BENJAMIN
479	RODRIGUEZ, MISADELINA
480	OCCUPANT UNKNOWN,
484	LEON, HIPOLITO
500	BORREGO, ADRIANA
	CANCHOLA, RAMON J
	CHAVARRIA, RACHEL
	FERNANDO, ALFARO J
	FUENTES, J
	GARCIA, D
	GUERVARA, MARIA
	HERNANDEZ, FIREBAUGH
	HERNANDEZ, MARTHA
	KASSON, MOTHANA
	· , · · · · · · · · · · · · · · · ·

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2005 (Cont'd)

F00	KOA DEVELORMENT INC
500	KOA DEVELOPMENT INC
	LOPEZ, CARMEN
	MARTINEZ, MIGUEL
	MEDINA, JUAN C
	MONTES, DIANNA
	MORCHECHO, N
	MORQUECHO, LUIS
	NEVAREZ, OSCAR B
	NUNEZ, ISRAEL
	ORTIZ, GEORGE H
	QUINTANA, JOSE G
	RIVAS-WAKEFIELD, MISHIA
	SALCEDO, RODRIGO
	SAN JOAQUIN VISTA APARTMENTS
	SARABIA, JOSE L
	SEARCY, IRENE
	SERRANO, JORGE
	SHUEMAKE, BRIAN
	SILVA, LUIS
	TORRES, MARIBEL P
	VASQUEZ, JOSE A
	WILLIAMS, JO
	ZAPATA, M
513	SERNA, ARTURO R
527	DELGADO, RAFAEL M
541	FLORES, RAMON P
555	D P PRESSURE WASHING
	DP PRESSURE WASHING
	PRIETO, DAVID E
569	MEZA, ARTURO S
583	OCCUPANT UNKNOWN,
597	MURPHY, MANUEL A
599	MANJARREZ, DIANA
600	ANDRADE, JAVIER
	CARDIEL, LORI
	CIPRIANO, GARCIA
	CORRAL, IRIS Y
	CORTEZ, ABEL
	ESTRADA, ESTELLA
	FIREBAUGH GARDEN APARTMENTS
	LOPEZ, ROXANA E
	MARTINEZ, ANGELICA M
	MATA, LORENA
	MONTES, CRISTINA
	MORALES, JUANA M
	MORALES, SAMANTA
	MORENO, DOLORES
	NAJERA, MARIN G
	NOVEDADES CASAREZ
	PALACIOS, JUAN

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2005 (Cont'd)

			(Some a)
600	PEREIRA, MAYRA		
	PEREZ, PATRICIA		
	RAMIREZ, LEONOR		
	RAMOS, HERIBERTO		
	RIVERA, MICHAEL A		
	RODRIGUEZ, ANET		
	TORRES, ARTURO		
743	FRIAS, SANTIAGO A		
750	VELASCO, JAIME		
754	LARA, ENRIQUE		
761	OCCUPANT UNKNOWN,		
763	RODRIGUEZ, GUADALUPE		
766	OCCUPANT UNKNOWN,		
770	RIVERA, M		
785	GAETA, JOSE L		
821	ALMA, OVALLES		
822	GUILLEN, CARLOS		
	OCCUPANT UNKNOWN,		
833	BORBOA, E C		
837	MUNOZ, GABRIELA P		
•	OCCUPANT UNKNOWN,		
843	TAVERA, DAISY		
848	QUIROZ, SAMANTHA		
856	GORDILLA, AGUSTIN A		
861	NIETO, JOSE G		
864	OCCUPANT UNKNOWN,		
874	SANDOVAL, PEDRO S		
889	GALLEGOS, ROSENDO		
891	BARRIOS, JULIO		
892	LANDUCCI, EDDA R		
901	SANCHEZ, JOHN		
902	LARA, VANESSA N		
914	MORENO, GEORGE A		
915	CHAVEZ, OSCAR G		
916	GOMEZ, JOAQUIN		
918	OCCUPANT UNKNOWN,		
927	PALOMINO, SARA A		
930	ONTIVEROS, RAMON		
939	OCCUPANT UNKNOWN,		
944	OVALLES, MARIA N		
946	MUNOZ, JOSE R		
948	SHUEMAKE, MICHELLE L		
952	MARTIN, DANIEL		
964	LIBERT, MARIA		
981	MARQUEZ, DANIEL		
001	MUNOZ, AMELIA		
	PEREZ, JUAN P		
991	CANO, VICTOR		
992	FIREBAUGH RESTAURANT		
1032	PAGANCCI MOTEL / COCKTAIL LOUNG	Е	
	2 2 2 2. 2 2. 20110		

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2005 (Cont'd)

		 (Some a)
1067	CLASSIC GRAPHICS	
1074	WHITEHURST CHAPELS FIREBAUGH	
1080	BURKHART FARMS	
1133	COMMUNITY MEDICAL CENTERS	
	FAMILY MEDICINE	
1166	DELUNA, BLAS M	
1170	JENKINS, BRADY	
1172	OCCUPANT UNKNOWN,	
1191	AE MILLS SCHOOL	
1240	VALENCIA, OLIVIA	
1242	GARCIA, ANTONIO	
1244	GUTIERREZ, MARIA	
1246	OCCUPANT UNKNOWN,	
1248	CARRERAS, LILLIAN	
1250	RUIZ, JOSE	
1252	WARD, MICHAEL	
1254	RUIZ, CESAR	
1264	ATONDO, WIILAM E	
	CASTRO, OSCAR J	
	DANIEL, W R GOMEZ, MANUEL	
	LANF, KIM	
	MANA, SALAH	
	MENDOZA, RIGOBERTO	
	MORALES, JESSIE	
	OLIVEIRA, MICHAEL	
	PENDLETON, DALLAS E	
	REYES, JOB	
	ROBLES, YOLANDA P	
	ROOD, DANIEL	
	SALEH, AHMED H	
	SANCHEZ, GILBERT	
	VALENCIA, OLIVIA J	
	WALLIS, KENNTH	
1312	WEST AMERICA	
1325	SANCHEZ, RAMON	
1326	KEAR, RICHY	
1350	FISCHER, VINCENT D	
1355	BORBOA, ARTHUR O	
1367	STEWART, ALEXANDRIA M	
1401	LEDFORD, JOHN M	
1402	LAUBACHER, MIKE A	
1414	ARDIZZONE, EDWARD A	
1437	THARP, ROBERT A	
1444	GARDNER, GILBERT C	
1450	VASQUEZ, SALVADOR	
1463	PORRAS, DAVID	
1468	DAVILA, ERIC L	
1497	DEDMON, JUSTIN S	
1514	ESPINOZA, DARLA F	

Target Street	Cross Str	<u>eet</u>	<u>Source</u>
-	✓		Cole Information
	P ST	2005	(Cont'd)

		P 51	2005	(Conta)
1524	CLARK, TWANA			
1525	OCCUPANT UNKNOWN,			
1534	RIOS, MANUEL			
1542	MOSER, ARTHUR L			
1545	DEDMON, JAMES E			
1550	MILLER, DON L			
1560	AG RECYCLE CORP MARKS, CLARENCE T			
1565	KNIGHT, RAY R			
1580	JONES, JOHN D			
1585	CASTANEDA, ABEL R			

-44	TORRES MANUEL R
511	TORRES, MANUEL P
512	MARTINEZ, ERNESTO
525	SINGH, SURINDER
526	TOPETE, SILVA A
539	GUADIAN, ABRAHAM
540	LOPEZ, ELSA I
553	YBARRA, MANUEL R
554	CONTRERAS, GLORIA L
567	ORNELAS, MARIA P
568	GUZMAN, ELOY B
581	LOPEZ, EULOGIO C
582	L & L TRANSPORT
505	MADRIZ, JORGE L
595	GALLEGOS, HECTOR A
596	MORA, ANTONIO
744	SHUEMAKE, KENNETH P
761	DEMMERS, PAUL A
762	MANES, HOWARD C
766 777	FARIAS, A
777	RENFRO, SUSAN A
838	OCCUPANT UNKNOWN,
862	OCCUPANT UNKNOWN,
874 975	SABLAN, ANTHONY O
875	FIREBAUGH RIVERFRONT INN OCCUPANT UNKNOWN,
920	CERVANTES, JUAN
922	OCCUPANT UNKNOWN,
940	HURTADO, CATALINA S
950	BARRAGAN, GARY M
974	WILLIAMS, ROBERT L
976	CABRERRA, OSCAR
984	OCCUPANT UNKNOWN,
986	MILLER, PATRICIA A
1002	OCCUPANT UNKNOWN,
1032	SANCHEZ, ISAAC S
1052	PIERI, IRENE M
1062	MAINORD, BEVERLY S
1082	CRUZ, VARGAS E
1086	GALLEGOS, ANGEL J
1320	RAMIREZ, PETE
1329	JUST ROC
	KEYS, MITCHELL A
1368	OCCUPANT UNKNOWN,
1375	RAMIREZ, SHAUN
1401	VANPELT, DAVID W
1432	ROBERTS, GARRETT M
1456	GUADIAN-RAMIREZ, CLAUDIA
	RAMIREZ, JOSE A
1461	OCCUPANT UNKNOWN,
1526	TABARES & SON TRUCKING

Target Street Cross Street Source Cole Information Q ST (Cont'd) 2005 1526 TABARES, RODOLFO R OCCUPANT UNKNOWN, 1538 1691 HAZEL M BAILEY PRIMARY SCHOOL

	_
440	TAVLOD CAM
419	TAYLOR, SAM
421	GARCIA, RIGO
423	OCCUPANT UNKNOWN,
425	OCCUPANT UNKNOWN,
427	OCCUPANT UNKNOWN,
429	RAMIREZ, RICKY F
431	OCCUPANT UNKNOWN,
433	OCCUPANT UNKNOWN,
435	OCCUPANT UNKNOWN,
439	OCCUPANT UNKNOWN,
445	RODRIGUEZ, DIEGO
447	BAEZA, MARIA
449	MEDINA, GUILLER
450	FRAGA, TEOFILO
451	OCCUPANT UNKNOWN,
453	GAETA, LUCIA N
454	OCCUPANT UNKNOWN,
455	OCCUPANT UNKNOWN,
456	CASTELLANOS, JOSE L
457	OCCUPANT UNKNOWN,
459	OCCUPANT UNKNOWN,
460	PUGA, G
461	OCCUPANT UNKNOWN,
462	OCCUPANT UNKNOWN,
463	OROZCO, F L
464	OCCUPANT UNKNOWN,
465	OCCUPANT UNKNOWN,
466	OCCUPANT UNKNOWN,
467	OCCUPANT UNKNOWN,
469	STRAUGHTER, NETTIE B
470	OCCUPANT UNKNOWN,
471	OCCUPANT UNKNOWN,
472	MORENO, ELISEO
473	PENA, JOSE G
475	OCCUPANT UNKNOWN,
477	OCCUPANT UNKNOWN,
478	OCCUPANT UNKNOWN,
479	OCCUPANT UNKNOWN,
480	OCCUPANT UNKNOWN,
481	OCCUPANT UNKNOWN,
482	OCCUPANT UNKNOWN,
513	SERNA, RAMONA
527	DELGADO, R
541	FLORES, RAMON P
555	PRIETO, DAVID
569	WESTBROOK, THERESA M
583	FLORES, JIMMY
597	MURPHY, MONROE A
600	ARRIAGA, JESUS F
500	ESPINOZA, SAUL
	LOI INOZA, GAUL

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2000 (Cont'd)

	, ,
600	ESPITIA, PEDRO
	FIREBAUGH APARTMENTS
	GONZALEZ, C
	MEDEL, MARIA
	MERAZ, CATHY
	MORENO, DOLORES
	MULATILLO, ARACELI
	PACHECO, S
	PEREZ, V
	RL
	RODRIGUEZ, JOSE A
	SANTOYO, DAVID
	TORRES, M
	TORRES, MARIBEL
	VEGA, LUCIA A
743	OCCUPANT UNKNOWN,
750	CHAVARRIA, ANTONIO O
763	CORCHADO, F
770	SANCHEZ, V S
785	OCCUPANT UNKNOWN,
807	SANCHEZ, ELVIA S
821	GAMINO, ELISEO V
822	GORDILLO, YOLANDA
833	OCCUPANT UNKNOWN,
836	OCCUPANT UNKNOWN,
837	RAMIREZ, ROSARIO
843	JOHNSON, OPAL
856	OCCUPANT UNKNOWN,
861	PARKER, TED
864	GARCIA, J
874	OCCUPANT UNKNOWN,
889	GALLEGOS, ROSENDO
891	OCCUPANT UNKNOWN,
892	LANDUCCI, RENATO
901	SANCHEZ, JOHN
902	OCCUPANT UNKNOWN,
914	OCCUPANT UNKNOWN,
927	PALOMINO, SARA A
930	MEDINA, JESUS A
939	ALANIZ, TERESA
944	MONTALVO, JOEL B
946	LOPEZ, C
948	FLORES, G
952	OCCUPANT UNKNOWN,
964	MAGDALENO, CRYSTAL
981	OCCUPANT UNKNOWN,
992	FIREBAUGH RESTAURANT
1031	RODRIGUEZ, J
	TORRES, ANTONIO
1032	PAGANUCCIS MOTEL & COCKTAIL LOUNGE

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 2000 (Cont'd)

	1 01 2000 (Golff d)
1069	OCCUPANT UNKNOWN,
1074	OCCUPANT UNKNOWN,
	WHITEHURST CHAPELS FIREBAUGH
1080	BURKHART FARMS
	JONES EDDIE CUSTOM SPRAYING
1085	OCCUPANT UNKNOWN,
	TRAJAN SOARES
1091	OCCUPANT UNKNOWN,
	WILLIAMS FICKETT
1133	FIREBAUGH COMMUNITY HEALTH CENTER
1166	OCCUPANT UNKNOWN,
1170	OCCUPANT UNKNOWN,
1172	OCCUPANT UNKNOWN,
1174	OCCUPANT UNKNOWN,
1191	FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT SCHOOLS
1242	OCCUPANT UNKNOWN,
1244	CRUZ, FERMIN
1248	MELENDEZ, JOSE
1250	PEREZ, RODOLFO
1252	SANCHEZ, L
1254	TAVERA, JOSE E
1264	CABRERA, STACY
	PENDLETON, DALLAS E
	SANCHEZ, L
	SMITH, LONNIE B
1312	KERMAN STATE BANK
1325	MUNICHA, PAUL
1326	GUERRA, RAMON
1328	GUERRA, RAMON D
1350	FISCHER, VINCENT D
1355	BORBOA, TOOTIE
1367	STEWART, A M
1401	LEDFORD, MAURICE
1402	LAUBACHER, MIKE A
1414	DERMER, DORIS
1437	THARP, ROBERT
1444	GARDNER, GILBERT
1450	OCCUPANT UNKNOWN,
1463	RUSSELL, FRANK E
1468	MILLER, LEWIS
1497	DEDMON, JUSTIN
1514	OCCUPANT UNKNOWN,
1524	CASTELLANO, LIONEL G
1525	KWOCK, NORA
1534 1542	CANTU, FRANK A MOSER, ARTHUR L
1542	DEDMON, JAMES
1545	CRON, DANNY
1560	MARKS, C
1565	KNIGHT, R C
1000	INTO THE PROPERTY OF THE PROPE

Target Street Cross Street Source Cole Information (Cont'd) P ST 2000 WALLS, WILLIAM D 1582 1585 CASTANEDA, ABEL

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

Q ST 2000

525	SINGH, SURINDE
526	TOPETE, SILVA A
539	SILVA, ABRAHAM G
540	LOPEZ, ELSA
553	OCCUPANT UNKNOWN,
554	ALVAREZ, GUSTAVO C
567	ORNELAS, MARIA P
568	OCCUPANT UNKNOWN,
581	RIOS, ALFONSO
582	OCCUPANT UNKNOWN,
595	GALLEGOS, E
744	SHUEMAKE, PAT
761	RAMIREZ, SHARON
762	MANES, HOWARD
768	OCCUPANT UNKNOWN,
777	OCCUPANT UNKNOWN,
838	OCCUPANT UNKNOWN,
855	SABLAN, OSCAR M
862	KIRSCHMAN, KEVIN B
874	BORBOA, CASEY
875	DINESCU, C L
920	CERVANTES, JUAN
940	OCCUPANT UNKNOWN,
950	BARRAGAN, GARY
970	OCCUPANT UNKNOWN,
976	OCCUPANT UNKNOWN,
984	OCCUPANT UNKNOWN,
986	MILLER, P A
1002	BELLI, DEWEY
1032	SANCHEZ, ISAAC
1052	PIERI, IRENE
1062	MAINORD, BEVERLY S
1082	CRUZ, VARGAS E
1329	KEYS, M A
1368	OCCUPANT UNKNOWN,
1369	MOLINA, MICHEAL A
1375	GRIFFIN, EDNA
1401	OCCUPANT UNKNOWN,
1408	OCCUPANT UNKNOWN,
1456	OCCUPANT UNKNOWN,
1538	FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT
	FIRST BAPTIST CHURCH

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT SCHOOLS

1691

	•
419	TAYLOR, SAM
421	MARTINEZ, XOCHILT
423	OCCUPANT UNKNOWNN
425	RENDON, L
429	OCCUPANT UNKNOWNN
431	AGUIRRE, MANUEL
432	ARMENTA, ALICIA
433	OCCUPANT UNKNOWNN
437	OCCUPANT UNKNOWNN
439	MORALES, ELVIDA
441	OCCUPANT UNKNOWNN
443	HINOJOSA, IRENE
445	OCCUPANT UNKNOWNN
447	RIESTRA, JESUS
449	MEDINA, G
452	OCCUPANT UNKNOWNN
453	OCCUPANT UNKNOWNN
455	OCCUPANT UNKNOWNN
456	OCCUPANT UNKNOWNN
458	OCCUPANT UNKNOWNN
459 460	CISNEROS, C
460	MARTINEZ, JAVIER
461	OCCUPANT UNKNOWNN
462	BAUTISTA, ANNA R
463	GARCIA, NIKKI
464 465	OCCUPANT UNKNOWNN
465 466	OCCUPANT UNKNOWNN
466 467	OCCUPANT UNKNOWNN
467	HUARACHA, IRMA OCCUPANT UNKNOWNN
468	
470	RAMIREZ, JAVIER
471	AVILA, SARA M
472	RAMIREZ, VICTOR
473	OCCUPANT UNKNOWNN
475	WERTENBERGER, RETHIA
476	OCCUPANT UNKNOWNN
477	OCCUPANT UNKNOWNN
478	OCCUPANT UNKNOWNN
481	CASTELLANOS, JOSEPH L
482	OCCUPANT UNKNOWNN
484	SOSA, LUPE
527	DELGADO, ISIDRO M
541	FLORES, RAMON P
555	PRIETO, DAVID
569	WESTBROOK, THERESA M
750	QUIJADA, JERRI
754	SPARKS, ALICE L
758	ABBATTISTA, ITALO
761	GUTIERREZ, S
762	GARCIA, J M

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 1995 (Cont'd)

	(00110.0)
766	OCCUPANT UNKNOWNN
770	OCCUPANT UNKNOWNN
807	MADRID, LORENZO JR
821	LOPEZ, SANDRA
822	GUILLEN, CARLOS
833	OCCUPANT UNKNOWNN
836	FELIZ, WILLIAM J
837	SOSA, PETE
843	JOHNSON, OPAL
848	OCCUPANT UNKNOWNN
856	DODGE, THELMA D
861	AMSCHLER, WAYNE
864	OCCUPANT UNKNOWNN
874	SANDOVAL, MARIANA
889	SANCHEZ, C G
891	OCCUPANT UNKNOWNN
892	LANDUCCI, RENATO
901	PADILLA, MARIE M
902	OCCUPANT UNKNOWNN
914	MORENO, DIANE L
918	JOHN, BRUCE
927	OCCUPANT UNKNOWNN
930	OCCUPANT UNKNOWNN
939	OCCUPANT UNKNOWNN
946	OCCUPANT UNKNOWNN
948	OCCUPANT UNKNOWNN
952	MARTIN, DANIEL
964	BETANCOURT, MARIA
991	KATHYS BEAUTY SALON
1032	PAGANUCCIS MOTEL & LOUNGE
1067	CLINES ALL SHARP SALES & SVC
	FLOWERS BY MELE
1074	WHITEHURST CHAPELS FIREBAUGH
1080	BURKHART FARMS
	EDDIE JONES CUSTOM SPRAYING
1085	ROBERT MC AFEE OD
1091	TACOS GUANAJUATO CATERING
1150	AGUILAR, MARCELO
1166	OCCUPANT UNKNOWNN
1172	SHUEMAKE, NORA S
1174	MILLER, HENRY A
1191	MILLS INTERMEDIATE SCHOOL
1244	OCCUPANT UNKNOWNN
1246	OCCUPANT UNKNOWNN
1250	OCCUPANT UNKNOWNN
1252	CAMPBELL, TERRI L
1254	OCCUPANT UNKNOWNN
1264	CARDIEL, JESSE S
	PENDLETON, DALLAS E
	SMITH, LONNIE B

Target Street	Cross Street	<u>Source</u>
-	✓	Cole Information

P ST 1995 (Cont'd)

1312	BANK ONE
1325	MUNICHA, PAUL
1326	GUERRA, RAMON JR
1330	MAGDALINE, A
1338	OCCUPANT UNKNOWNN
1350	FISCHER, VINCENT D
1355	BORBOA, ARTHUR O
1362	BERTOLANI, GRACE
1367	STEWART, DUANE
1401	LEDFORD, MAURICE
1402	LAUBACHER, MIKE A
1414	DERMER, DORIS
1437	THARP, ROBERT
1444	GARDNER, GILBERT
1450	OCCUPANT UNKNOWNN
1463	ZUPANOVICH, S
1468	MILLER, LEWIS
1497	MARTINEZ, MARY
	REBECCHI, HENRY JR
1514	VASQUEZ, DENNIS A
1524	WESTBROOK, TERRIE M
1525	KWOCK, NORA
1534	CANTU, FRANK A
1542	OCCUPANT UNKNOWNN
1545	DEDMON, JAMES
1550	CRON, DANNY
1560	DEMMERS, TIMOTHY W
1565	KNIGHT, RAY C
1580	MOCK, F P
1585	CASTANEDA, ABEL

Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information

744	SHUEMAKE, KENNETH P
761	RAMIREZ, SHARON
762	MANES, HOWARD
768	OCCUPANT UNKNOWNN
777	RENFRO, SUSAN
838	OCCUPANT UNKNOWNN
862	KIRSCHMAN, KEVIN B
874	BORBOA, CASEY
920	GRANADOS, C
940	HURTADO, S S
950	BARRAGAN, GARY
974	LEAL, JOE
976	OCCUPANT UNKNOWNN
984	OCCUPANT UNKNOWNN
986	OCCUPANT UNKNOWNN
1002	BELLI, DEWEY
1032	SANCHEZ, ISSAC S
1052	PIERI, IRENE M
1062	MAINORD, BEVERLY S
1082	NUNEZ, LUZ
1086	OCCUPANT UNKNOWNN
1329	GILBERT, CORINNE
1368	MATHEW, W F
1375	GRIFFIN, EDNA
1401	OCCUPANT UNKNOWNN
1432	SALAZAR, ANGELA M
1456	PAGANUCCI, JUANITA
1461	OCCUPANT UNKNOWNN
1526	TABARES, RODOLFO R
1538	FIRST BAPTIST CHURCH
1691	HAZEL M BAILEY PRIMARY SCHOOL

419	TAYLOR, SAM
425	RENDON, L
431	AGUIRRE, MANUEL
433	ARMENTA, S
439	MORALES, ELVIDA
439 445	WERTENBERGER, DEWEY
445 447	
	JACOBO, ESTHER
449 450	MEDINA, G
452 450	RAMIREZ, E
456 460	BERBER, JOSE L
462	BAUTISTA, ANNA R
466	SANDOVAL, JOSE G
470	GUADIAN, ABRAHAM
472	RAMIREZ, VICTOR
484	SOSA, LUPE
758	ABBATTISTA, ITALO
762	GARCIA, J M
807	MADRID, LORENZO JR
843	JOHNSON, OPAL
856	DODGE, WILLIAM
861	PARKER, TED
864	PENICK, RAY
891	SILVA, JOSE C
892	LANDUCCI, RENATO
918	JOHN, BRUCE
939	ZANINOVICH, IVAN
952	MARTIN, DANIEL
991	KATHYS BEAUTY SALON
992	FIREBAUGH RESTAURNT
	PAGANUCCIS MOTEL
1067	FLOWERS BY MELE
1074	WHITEHURST CHAPELS
1080	BURKHART FARMS
	JONES E CSTM SPRYNG
1091	TACOS G CATERING
1133	FRESNO CO DEPT HLTH
1172	SHUEMAKE, NORA S
1174	MILLER, HENRY A
1191	FIREBAUGH SC MILLS
1240	SMITH, WILLIE
1264	JOHNSON, WALTER H
	TASSEY, CARLOS J
1312	CA VALLEY BANK
1325	MUNICHA, PAUL
1326	GUERRA, RAMON JR
1350	FISCHER, VINCENT D
1355	BORBOA, ARTHUR O
1401	LEDFORD, MAURICE
1402	LAUBACHER, MIKE A
1414	DERMER, DORIS

	Target Street	Cross Str	<u>eet</u>	<u>Source</u>	
	-	✓		Cole Information	
		P ST	1992	(Cont'd)	
1437	THARP, ROBERT				
1444	GARDNER, GILBERT				
1463	ROGGERO, JAMES				
1468	MILLER, LEWIS				
1497	MARTINEZ, MARY REBECCHI, HENRY JR				
1514	VASQUEZ, DENNIS A				
1525	KWOCK, NORA				
1545	DEDMON, JAMES				
1565	KNIGHT, RAY C				
1585	CASTANEDA, ABEL				

Target Street	Cross Street	<u>Source</u>
✓	-	Cole Information

		Q ST	1992
744	DELGADO, JOE L		
762	MANES, HOWARD		
768	ARREDONDO, DAVE		
777	RENFRO, SUSAN		
874	BORBOA, CASEY		
950	BARRAGAN, GARY		
1002	BELLI, DEWEY		
1329	LOWRY, HENRY		
1368	MATHEW, W F		
1375	GRIFFIN, EDNA		
1432	DES JARDINS FARMS		
4.450	SALAZAR, ANGELA M		
1456	PAGANUCCI, JUANITA		
1461	DUDLEY, ALLEN D		
1538	FIRST BAPTIST CH WAYMAN, ROBERT E		
1691	FIREBAUGH SC BAILEY		
1001	TINEBAGGIT GO BAILE T		

	· -		_
P 93	622 FIREBAUG	Н	
419	TAYLOR Sam VOLENTINE Wm	659-2580 659-2269	3
423	XXXX LEDEZMA Barbarito	00 659-2214	7
427 431 433	XXXX AGUIRRE Menual XXXX	00 659-3765 00	9
435 437	XXXX	00	
439	MORALES E XXXX	659-1114	3
443 445 447	XXXX WERTENBERGER Dowey	00 659-2668	8
447 451 452	XXXX XXXX RAMIREZ Edelmire	00 00 659-3528	+0
453 455	ARELLANO Roberto C	650-3750	4
456 458	BERBER Jose Luis CABRERA Benito	659-3966 659-3177	+0
459 460	XXXX	00	
461 462 463	XXXX BAUTISTA Anna Rosa XXXX	00 659-2737 00	+0
464 466	XXXX SANDOVAL Jone G	00 659-3234	+0
467 468	XXXX RODRIGUEZ Ramiro T	00 659-3896	4
470 472 473	GUADIAN Abrehem RAMIREZ Victor XXXX	659-2895 659-2276 00	3
474 476	XXXX XXXX	00	
477 478	ACOSTA Alfredo VACA Ramon	659-3339 659-2998	3
480	XXXX	00	
482 484 743	XXXX SOSA Lupe XXXX	00 659-3735 00	
750 754	XXXX	00	
758 762	XXXX GARCIA Josephine M	00 659-1281	9
764 766	GABRIEL Antonio GABRIEL Hortencia	00 659-2747 659-2747	8
770 785	XXXX	00	0
807	XXXX	00	
836	BARBEE Glenda BARBEE Pete	659-2733 659-2733	7
837 843 848	JOHNSON Opel JIMENEZ AHred	00 659-3819 659-3504	8
856	DODGE Thelms	659-1124 659-1124	,
861 864	PENICK Rey	659-3500 659-1366	
874 891	SILVA Jose Cruz	00 659-3602 659-2403	9
892 901 902	SILVA Jose Cruz LANDUCCI Renato XXXX MATHEWS Ray	00 659-2149	
914 915	XXXX XXXX	00 00 00	
918 927 930	XXXX	00 00 659-2683	
939	BARNES Clifton ZANINOVICH Ivan XXXX	659-2416	
946 948	JOHN Bruce XXXX XXXX	659-2916 00	3
952 991	XXXX *KATHYS BEAUTY SALOH *FIREBAUGH RESTAURNT	00	5
992 1016 1019	*FIREBAUGH RESTAURNT XXXX XXXX	659-0937 00 00	
1031	*EL ENCAHTITO CAFE *PAGANUCCIS MOTEL	659-2139 659-9988	
1049 1067	YYYY	00 659-2392 659-2392	
4000	*CLINES ALL SHRP BLS *FLOWEPS BY MELE *MELES FLOWERS XXXX	659-2392 659-2392 00	
1069 1074 1090	*WHITEHURST CHARELS *BURKHART FARMS *JONES E CSTM SPRYNG	659-2133 659-3811	5 7
1085	XXXX	659-1011	8
1001	*FOXY LADY THE XXXX *FRESNO CO DEPT HLTH	659-2226 00 659-1431	4
1133 1150 1154	XXXX XXXX	00	
1180 1164 1174	XXXX	00	
1174 1191	MILLER Henry A *FIREBAUGH SC MILLS *FIREBAUGH SC MILLS	659-2849 659-2498 659-2317	8
1238	RIVAS Penny XXXX	659-2485 00	+0
1240 1242 1244 1246	XXXX	00	
1246 1264	XXXX APARTMENTS	00	I
	APARTMENTS CARDIEL Josso S JOHNSON W H NUGAEI Saloma	659-3795 659-1159 659-3623	+0
	PENDLETON Dalias E TASSEY Carlos J	659-2514 659-3685	4
1264	YYYY	00	
1312	*CA VALLEY BANK *CA VALLEY BANK	659-1451 441-1368	8
1325 1326 1335	MUNICHA Paul GUERRA Ramon Jr PEREZ Juan M	659-2229 659-2938 445-1980	+0
1338 1350	XXXX	00 659-2837	
1355	FISCHER Vincent D BORBOA Arthur O BORBOA Toctie	659-1398 659-1398	
1364 1367 1401	XXXX XXXX LEDEORD Maurica	00 00 669-1280	5
1402	LEDEORD Maurica LAUBACHER Mika A DERMER D	659-1280 659-3958 659-3275	3
1414 1437 1444	DERMER D THARP Robert GARDNER Gilbert	659-1009 659-2857	6
1450 1463 1468	XXXX ROGGERO Jes	00 659-2290 669-2598	
1468	MILLER Lawis MARTINEZ Mury REBECCHI Hunry VASOUEZ Donnis A	659-2596 659-3848 659-3379 659-3474	+0
1514 1524		00	5
1525 1534 1542	KWOCK Nore WESTBROOK Terrie	659-2280 659-1563 00	9
1542 1545 1550	XXXX DEDMON Jee XXXX	659-3103	1
1560 1565	XXXX VNIGHT B.C	659-2186	
1380 1585	STONE Ross CASTANEDA Abel 16 BUS 128 RES	659-2687 659-3195 8 NEW	3
	120 NES	D. ILL	

71		Q 31 1990		
	0 93	622 FIREBAUG	SH	
3				
	744	DELGADO Joe Louie	659-3792	1
н	761	XXXX	00	
	762	MANES Howerd	659-2588	
1	766 768	XXXX	00 659-3745	
	777		659-2326	2
1	803	XXXX	00	-
Н	838	XXXX	00	
Н	862	KREIGHBAUM Brent	659-3671	9
1	005	KREIGHBAUM Tracy	659-3671	3
	874	BORBOA Casey	659-2270	
	920	XXXX	00	
	922	XXXX	00	
2	940	XXXX	00	
1	950	XXXX	00	- 1
6	974	WILLIAMS Robert Lee	659-2459	9
3	976	The state of the s	00	3
0	984	XXXX	00	
3	986	MARKS Clarence	659-3159	_
1	300	MARKS Jill	659-3159	- 1
9	1002	BELLI Dewey	659-2598	_
1	1032	and the state of t	659-2663	7
	1052		659-2048	
	1082	GONZALES LOUIS	659-1325	8
	1086	XXXX	00	
П	1320	DIEDRICH BIII W	659-3192	2
5	1323	XXXX	00	
	1329	LOWRY Henry	659-2590	
6		MATHEW W F	659-2210	
7	1375		659-2306	
6	1401	XXXX	00	
П	1408	XXXX	00	
	1432	+DES JAROINS FARMS	659-3491	6
7		SALAZAR Angels M	659-2102	
	1456	PAGANUCCI Juenita	659-2441	5
П	1461	DUDLEY Allen D	659-1344	4
	1526	XXXX	00	
	1538	*FIRST BARTIST CH	559-2339	
		WAYMAN Robi E Rev	659-1314	6
	1601	XXXX	00	
1	1591	*FIREBAUGH SC BAILEY		
		*FIREBAUGH SC CAFTRA		5
	NO #	*FIREBAUGH SC BUS	659-2601	
6	1	6 5 BUS 38 RES	0 NEW	
2				

P 93	622 FIREBAUGI	+
419	TAYLOR SAM	659-2560 3
421	BRYANT ILA	659-2269 3 659-3243 3 659-2784 3
435	HERNANDEZ EL OISA	659-3805 4
		659-1215 +5
449	JONES ARTURO	659-2545 3 659-1360 4 659-1054 +5
451	HILBOHN JUSTINA	659-3365 3
453	FLORES LAWRENCE	659-3040 3 659-3218 6 659-3750 4
455	ARELLANG ROBERTO C	659-3750 4
459	XXXX	00 00 00
461	FLORES VERA	659-3798 4
463	ZAPATA JESSE	659-3644 +5 659-3815 +5 659-1085 0
466	XXXX	00 659-3222 +5
468	RODRIGUEZ RAMIRO T	659-3896 4
472	RAMIREZ VICTOR	659-2276 3 659-3246 4 659-3664 +\$
474	MARTINEZ ANGIE	659-3664 +\$ 00
477	ACOSTA ALFREDO	659-3339 3 00
460	XXXX	00 659-3368 4
482	XXXX	00
743	FRIAS DIANA	659-3735 9 659-1226 +5 659-2849
B21	XXXX	00 659-3642 3
833	HORN LOWELL	659-2314
837 843	JACOBS BOB REV	659-1201 3 659-3819 7 659-2233 4
848	ANGLE J L DODGE WM	659-2233 4 659-1124 3
861	PARKER TEO	659-1124 3 659-3500 659-1366 8
874	XXXX	00
892	LANDUCCI RENATO	659-2403 00
902	MATHEWS RAY	669-2149
915	XXXX	00 00 00
927	PALOMINO CHAS	659-2196 659-2883 659-2416
939	ZANINOVICH IVAN	659-2416 00
946	JOHN BRUCE	659-2916 3 00
952	MARTIN DANL	659-2213 4 659-1128 3
991	KATHYS BEAUTY SALON	859-1010+5 659-0837
1016	XXXX	00
1031	ELENCANTITO CAFE	659-2139 559-9988
1049	XXXX	00
1007	FLOWERS BY MELE	559-2392 559-2392 559-2392 0
1069		659.2133 + 6
1085	FIREBAUGH MNDTA JRN	659-3057 7 659-2815+5
1091	FOXY LADY THE	859-2225 4 00
	FIREBAUGH CMTY HLTH	659-1431
1150	BARNET GREG LOCHRY REAM	659-3345 4 659-2483 3 859-2496 8
1191	FIREBAUGH SC MILLS	859-2496 8 559-2317 8
1238	XXXX	00
1242	YYYY	00 659-3710 +5
1246		00
1250 1252	XXXX	00 659-1070 3
1254	BACA JAIME APARTMENTS	659-3508 4
		659-2954 +5 659-3795 4 659-3394 +5
	HERNANDEZ FRED JOHNSON W H	659-3394 +5 659-1159 0
	JOVER FRANK B PENDLETON DALLAS E	659-1159 0 659-2502 2 659-2514 4
	REDDING SHARON SIMPSON BETTY	659-2502 2 659-2502 2 659-2514 4 659-3214 4 659-2325 1 659-3685 9
1264		
1312	CA VALLEY BANK	00 441-1368+5
1325	MUNICHA PAUL GUERRA RAMON JR	659-2229 659-2938
1338		00 659-2837
	BORBOA ARTHUR BORSOASSONS PLUMBHO	659-2274 G 659-2274
1364 1367	SHIREY ROBT T	659-2464
1402	LAURACHER MIKE A	659-1260 +5 659-3958 0
1414	DERMER D DES JARDINS & FARMS	659-3275 859-3491 2
	DESJARDINS LINDA DESJARDINS WM	659-2574 659-2574 659-2657
1444	GARDNEH GILBERT	659-2857 00
1468	MILLER LEWIS	00 659-2290 659-2596 659-3379 659-3474 +5
1497	VASQUEZ DENNIS A	659-3379 659-3474 +5
1524 1525	XXXX KWOCK NORA	00 659-2280 659-3109 3
1542	AAAA	
1545 1560	DEDMON JAS NEWBY WILLIAM O	659-3103 1 659-3835 6
1560 1565	XXXX	659-2186
1580	STONE ROSS	659-2887 659-3195 3
1585	18 BUS 118 RES	16 NEW
	419 421 421 423 435 437 447 449 440 441 447 449 450 461 461 462 463 464 466 467 477 477 477 477 477 477 477	421 SAPATI ILA 423 MURILLO RAY 424 MURILLO RAY 425 MURILLO RAY 426 MORALES E LOISA 427 HERRANDEZ ELOISA 427 HERRANDEZ ELOISA 428 MORALES ATURO 429 LONES ARTURO 420 MEDOZA SYLVIA 420 MEDOZA SYLVIA 421 MEDOZA SYLVIA 422 MINEDOZA SYLVIA 423 LAPATA JESSE 424 ARIOS FRANCISCO 427 LORES SALVADOR 428 LORES SALVADOR 429 LORES SALVADOR 420 LORES SALVADOR 420 LORES SALVADOR 420 LORES SALVADOR 421 LORES SALVADOR 421 LORES SALVADOR 421 LORES SALVADOR 422 LORES SALVADOR 423 LORES SALVADOR 424 LORES SALVADOR 425 LORES SALVADOR 426 LORES SALVADOR 427 LORES SALVADOR 427 LORES SALVADOR 427 LORES SALVADOR 428 LORES SALVADOR 428 LORES SALVADOR 429 LORES SALVADOR 420 LORES SALVADOR 421 L



	622 FIREBAUGH	
450 452	HERNANDEZ LINDA	659-2349
454	SANCHEZ CECILIO	659-3218
460 462	XXXX	00
464	ARIOS FRANCISCO	659-1085+
466 470	VELASCO TERESO	00 659-3773 +
474	XXXX	00
476 478	RAMIREZ MANUEL RAMIREZ VICTOR	659-2153 659-2276
480	MONTEZ FELIPE	659-3479
482	SCSA LUPE	659-1064 659-3735
743	XXXX	00
750 758	XXXX	00
761	XXXX	00
762 766	MENDEZ RAYMUNDO	659-3669 +
770	LOWRY TERRY	659-3630
785 807	YOUNG JAMES ROD MILLER HENRY A	659-3284 659-2849
822	XXXX	00
833 836	HORN LOWELL DEDMON CONI	659-2314 659-3144
837	RORIE JESSE D REV	659-3144
843	JOHNSON OPAL	659-3819
848	MOORE GERALD MOORE LORI	659-2688 659-3342
856	XXXX	00
861 864	PARKER TED PENICK RAY	659-3500 659-1366
874	XXXX	00
891	XXXX	00
892 901	LANDUCCI RENATO	659-2403
902	MATHEWS RAY	659-2149
914	XXXX	00
915 918	XXXX	00
927	PALOMINO CHARLES	659-2196
930	PALOMINO N BARNES CLIFTON	659-3486 659-2883
939	ZANINOVICH IVAN	659-2416
946	XXXX	00
948 952	CHOPERENA M	659-2447 00
964	JOHNSON SANDY L	659-1079+
992	FIREBAUGH RESTANT	659-9937
1016	LEON PAZ XXXX	659-3179
1019	XXXX	00
1031	ELENCANTITO CAFE PAGANUCCIS MTL&LNGE	659-2139
1049	XXXX	00
1067	CLINES ALL SHAP SLS FLOWERS BY MELE	659-2392 659-2392
	MELES FLOWERS	659-2392+
1069	ROACH CARL W FIREBAUGH JOURNAL	659-1211 + 659-3057
1091	BOBS CUSTM MEATS	659-1324+
1102	XXXX FIREBGH COMM HLTH	00 659-1431+
1150	BRUMLEY KENNETH	659-3403
1154	XXXX	00
1160	ROMERO MIKE	00 659-3720 +
1170	HERNANDEZ FRED	659-3394
1172	HUNT DONNA	659-1215
1191	FIREBGH SC MILLS	659-2317
	FIREBGH SC MILLS	659-2496
1238	FLORES SALVADOR	659-3544 +
1242	XXXX	00
1244	MARTICORENA JAVIER SPIRES WILMA	659-1050 659-3703
1248	XXXX	00
1252	XXXX	00
1254	BACA JAIME APARTMENTS	659-3508+
120	AMADOR MARCOS	659-2175
	BRYANT LAVERNE FELIZ D	659-1393 +
	JOHN BRUCE	659-1393 + 659-2494 659-2916 +
	JOHNSON W H	659-1159+
	TASSEY CARLOS J WILLIAMS FRANK	659-3685
1264		
	XXXX MUNICHA PAUI	00 659-2229
1325	MUNICHA PAUL GUERRA RAMON JR	659-2938
1338	COWAN ROBERT	659-2938 659-3414
1350	FISCHER VINCENT D BORBOA ARTHUR T	659-2837
	BORBOA&SON PLMBNG	659-2274+
1364	XXXX	00
1367		659-2464 659-2316
1402	LAUBACHER MIKE A	659-3958 +
1414	DERMER D DESJARDINS LINDA	659-3275
	DEC LADDING WILLIAM	660 2674
1444	GARDNER GILBERT	659-2857
	TUCCI RALPH ROGGERO JAMES	659-3037 659-2290
		659-2596
	REBECCHI HENRY	659-3379

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1524	XXXX	00
1525	KWOCK NORA	659-2280 4
1534	YORK M G	659-2307
1542	DEDMON JAMES	659-3103 3
1545	XXXX	00
1550	NEWBY CONSTRUCTION	659-3872 7
	NEWBY WILLIAM D	659-3835 6
1560	CAREY HERMAN	659-3245+0
1565	KNIGHT R C	659-2186
1580	STONE ROSS	659-2887
1585	MILLER J B	659-3152
	MILLER RANDY	659-3346 4
	MILLER TERRI	659-3346 4
1500	XXXX	00
NO #	WHITEHAST FRAL CHPL	659-2133
*	14 BUS 108 RES	18 NEW

	0 93	622 FIREBAUGH		
				0020
H	744	THACKER GARY	659-2593+	
1	761		659-1315+	U
1		MANES HOWARD	659-2588	
	766	MURILLO MINNIE	659-1110	
ı		ARREDONDO DAVE	659-3745	Q
ı	7 77		659-2183	
ı	000	LEROY L C	659-2183	^
ı	803	HERNANDEZ SALVADORE		
ı	000		659-3108+	U
	838	XXXX	00	
ı	862		659-2234	
ı	874		659-2270	
	920	XXXX	00	
		XXXX	00	
		HURTADO PEDRO	659-3185	
		XXXX	00 659-2459	
ı		BARKSDALE JESSIE		
ł		XXXX	00	
ı		XXXX	00	C
	986		659-3475	0
ı	1002	BELLI DEWEY	659-2598	
ı	1000	BELLI SUSAN	659-2598	
l	1052		659-2048	a
	1082		659-2154	7
h	1086		659-2797	
ı	1320		659-2823	
	1329	MATHEWS PAUL H	659-2590 659-2210	
1		GRIFFIN EDNA	659-2388	
ı	1401	RENFRO W L	659-2940	
ı				8
ı	1408	DESJARDINS B FARMS		6
	1932		659-2102	V
ı	1456	PAGANUCCI JUANITA		3
ı	1430	PENDLETON DALLAS E		4
ŀ	1461	DUDLEY ALLEN		9
ı	1526	SPEAKES JOHN	659-2547	J
	1538		659-3862	q
ı	1330	FIRST BAPTIST CH	659-2339	7
	1691	FIREBGH SC PARKSIDE		8
1	1031	FIREBOH SC PARKSIDE	659-1421	500
1			659-2235	
			659-2542	
	NO #	FIREBOH SC BUS TERM		U
	NO #		659-2235+	n
۱	HU#	8 BUS 37 RES	5 NEW	2

	e	450 3374
	ELMS JOHN S	659-3146
	XXXX	00
	CARPENTER VIRGIL	
	XXXX	00
	OROZCO EVELYN P	659-3154
	DILLARD LEONARD	659-2865
	XXXX	00
	XXXX	00
	MILLER WANDA	659-2849
	BORTH JOHN	659-2698
115.00	HORN LOWELL	659-2314
	ASSEMBLY GOD PRSNG	
	RUMMANS OLGA	659-3304
848	MOORE GERALD	659-2688
856	LAKE ROD	659-2212
861	PARKER TED	659-3500
864	TUCCI RALPH	659-3037
874	BARRAGAN TOM JR	659-2107
891	XXXX	00
892	LANDUCCI RENATO	659-2403
901	ABATE HAL	659-3190

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1-----
. . P
                           93622 CONT ..
  902 MATHEWS RAY
  914 SARAGOSA DIANE 659-3649+5
  915 GONZALEZ TERRY
918 FUENTES C
                             659-3490 3
                              659-2544 3
  918 FUENTES C 659-2544
927 PALOMINO CHAS 659-2196
930 BARNES CLIFTON 659-2883
939 ZANINOVICH IVAN 659-2416
  948 CHOPERENA M
                              659-2447
                         659-3235 3
  952 ROBISON JERRY
  964 BELL KEITH S
                              659-3394
  992*FIREBAUGH RESTAURNT659-9937
 LEON PAZ 659-3179 4
1016 RIOS SEFERINO 659-2106 4
SAICAWALO MARY 659-2160 3
 1019 LENCI FRANK
                              659-2855
 1031*EL ENCANTITO CAFE 659-2139
 1032*PAGANUCCIS MTLELNGE659-9988
 1049 SAN JUAQUIN CLUB
                              659-9942
 1067*CLINES ALL SHRP SLS659-2392

*FLOWERS BY MELE 659-2392

1069 EPPLER VESTA 659-2123

1091*FANNON CLYCE 659-2425
                              659-2123 4
                            659-2425
     *FIREBAUGH TV&APPLNC659-2425
*WESTERN UN TELEGRPH659-2425 4
                              00
 1150 BRUMLEY KENNETH 659-3403 3
 1154
        XXXX
 1160 GARCIA M E
                             659-3720+5
 1164 LOWRY TERRY
                              659-3630+5
 1166 DEVENNEY BILL 659-3166+5
1168 MILLER GARY L 659-3475+5
 1170
                              00
 1174 CARDIEL JESSE S 659-3795+5
 1238 XXXX 00
1240 CARDIEL JUE 659-3169 4
 1240 CRUZ ERNIE 659-2769 4
1246 SPIRES WILMA 659-3703+5
1248 DELGADO GEORGE 659-2216+5
 1250 XXXX
                               00
 1252
        XXXX
 1254 VALENZUELA ARNOLD 659-3646+5
1264 ... APARTMENTS
       ALONSO RAFAEL
                               659-3787+5
                         659-2894
       BAILES ROBT
                               659-3111 3
       BURNS S J
DOUCETTE PAMELA
                              659-3159+5
       GRAUE JESS 659-2956
JIMENEZ HENRY 659-3049 4
MOLINA GERARDO 659-3139 4
       NEBEKER CAIL 659-3180+5
STEWART CHAS 659-3172
WILLIAMS FRANK 659-2502 3
       WILLIAMS FRANK
                              659-2502 3
1264 ..
                            659-2229
659-2938
 1325 MUNICHA PAUL
 1326 GUERRA RAMUN JR
 1338 POTTER WALTER EDW 659-3344
 1350 FISCHER VINCENT D 659-2837
 1355 BORBOA ARTHUR T
                               659-2274
 1367 SHIREY ROBT T
                               659-2464
 1401 TUCCI HENRY B
                               659-2316
 1402 STOUDENMIRE J M 659-3158
 1414 DERMER DAVID
                               659-3275
 1437 DESJARDINS LINDA 659-2574 3
                              659-2574 3
      DESJARDINS WM
 1444 GARDNER GILBERT
                               659-2857
 1450 SMITH ALVIN H
                               659-2531
      *WESTSIDE LEASING
                             659-2531
 1463 ROGGERO JAS
                               659-2290
 1468 MILLER LEWIS
                               659-2596
 1497 REBECCHI HENRY
                              659-3379
 1524 THOMASON L F
                              659-2866
 1525 KWOCK HING LINCOLN 659-2280
 1542 DEDMON JAS 659-2307
1545 JOHN BRUCE
                               659-3103
 1545 JOHN BRUCE
                               659-2916
 1550 DEFRANCESCO M SR 659-3398+5
1560 EPPLER FAY 659-3245
1565 KNIGHT R C 659-2186
 1565 KNIGHT R C
                              659-2186
 1580 STONE POSS
                              659-2887
 1585 MILLER J B
                             659-3152
                           659-3346
       MILLER RANDY
       MILLER TERRI
                              659-3346 4
 1600*FIREBAUGH SC MILLS 659-2496+5
NO #*WHITEHRST FNRL CHPL659-2133
      * 12 BUS 92 RES
                               16 NEW
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Q 93	3622 FIREBAUGH	
761	RAMIREZ PETE C	659-2344
762	MANES HOWARD	659-2588
768	DWENS CHESTER E	659-2195
777	LEROY ELIZABETH	659-2183
	LERDY L C	659-2183
838	XXXX	00
862	PERA LUTHER	659-2234
874	BORBOA CASEY	659-2270
940	HURTADO PEDRO	659-3185
950	NORTON MELODY	659-2119
974	BARKSDALE JESSIE	659-2459
976	ADAMS CLAUDE	659-2557
984	XXXX	CO
986	WEBB DAVID	659-2840
1002	BELLI DEWEY	659-2598
	BELLI SUSAN	659-2598
1052	PIERI IRENE	659-2048
1082	EARLE VERTNA	659-2162
1086	SCHLETZ RAY	659-2797
1320	NASH ROBT J	659-2823
1329	LOWRY HENRY	659-2590
1368	MATHEWS PAUL H	659-2210
1375	GRIFFIN EONA	659-2388
1401	RENFRO W L	659-2940
1408	XXXX	00
1432	SALAZAR MIKE	659-2102
1456	PAGANUCCI JUANITA	659-2441
	PENDLETON DALLAS E	
1461	DIEDRICH JOHN	659-3070
1526	SPEAKES JOHN	659-2547
	CRAVENS BENNIE	
	FIRST BAPTIST CH	
NO #4	FIREBAUGH SC PRKSD	659-2327+

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П	P Q	3622	FIREBAL	IGH	
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			JOHN S		659-3146
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н		RADNE			659-2267
	758	The state of the s	S BARBA	(A) (A) (A) (A)	659-2470+3
			S HARRY		659-2470+3
П			O EVELY		659-3154
н			RD LEON	ARD	659-2865
н		XXXX			00
н	770		EE LYND	A	659-3107+3
			CHAS		659-3107+3
			R WANDA		659-2849
		BORTH			659-2698
			LOWELL		659-2314
1					659-2571+3
1			NS OLGA		659-3304
п		LAKE			659-2212
L			R DUANE		659-2238
L			RALPH		659-3037
г			GAN TOM	JR	659-3179+3
L		BELLE			659-3230
Н		XXXX			00
1			CCI REN	ATD	659-2403
		ABATE			659-3190+3
L	100		WS RAY		659-2149
	914			_	659-3430+3
1	915		LEZ TER	RY	659-3490+3
н		PALME	MORE NO STORES		659-3124+3
н	200	FUENT			659-2544+3
н			INO CHA		659-2196
			S CLIFT		659-2883
н	939	ZANIN	OVICH I	VAN	659-2416
L	946	XXXX			00
н	9481		IRE DIS	POSAL	659-2059+3
н			RENA M		659-2447
н	952	ROBIS	ON JERR	Y	659-3235+3
			KEITH S		659-3394
					1659-9937+3
				RY	659-2160+3
			FRANK		659-2855
1	1031	EL EN	CANTITO	CAFE	659-2139

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93622 CONT ..
 1032 PAGANUCCIS MTLELNGE659-9988
 1049 SAN JOAQUIN CLUB
                        659-9942
 1067 CLINES ALL SHRP SLS659-2392
     *FLOWERS BY MELE
                        659-2392
 1091 * FANNON CLYDE
                        659-2425
     *FIREBAUGH TV&APPLNC659-2425
 1102 CERVANTES JUANA
                        659-2927
     SANCHEZ WALTER
                       659-2927
 1150 BRUMLEY KENNETH
                       659-3403+3
 1154 GROGAN VERNON
                     659-2312
 1160 XXXX
                       00
 1166 TOMANENG EONA
                       659-3143
 1168 MCCALL JAS R
                       659-3140+3
 1174 ROBISON JERRY
                       659-2397+3
 1240 VIGIL DOMINGO E
                        659-2152+3
 1246 SPIRES WILMA
                        659-2292+3
 1248
     XXXX
                        00
 1250 BROWN ADELLA
                        659-3288
 1252
     XXXX
                        00
1264 ... APARTMENTS
     BAILES ROBT
                      659-3111+3
     BURNS S J
                        659-2894
     COWAN ROBT
                        659-3414
                      659-2956
     GRAUE JESS
     STEWART CHAS
                       659-3172
   WILLIAMS FRANK 659-2502+3
1264......
1325 MUNICHA PAUL 659-2229
1326 GUERRA LORETTA
                       659-2938
     GUERRA RAMON JR
                        659-2938
1338 POTTER WALTER EDW 659-3344
1350 FISCHER VINCENT D
                       659-2837
1355 BORBOA ARTHUR T
                       659-2274
1367 SHIREY ROBT T
                       659-2464
1401 TUCCI HENRY B
                       659-2316
1402 STOUDENMIRE J M 659-3158
1414 DERMER DAVID 659-3275
1437 DESJARDINS LINDA 659-2574+3
     DESJARDINS WM
                       659-2574+3
1444 GARDNER GILBERT 659-2857
1450 ROBINSON CHAS L 659-2256
1463 ROGGERO JAS 659-2290
1468 MILLER LEWIS
                       659-2596
1497 REBECCHI HENRY
                       659-3379+3
1524 THOMASON L F
                       659-2866+3
1534 YORK M G
                       659-2307
1542 DEDMON JAS
                     659-3103+3
1545 JOHN BRUCE
                       659-2916
     JOHN MAYBELLE 659-2916
1550 STONE RALPH S
                  659-2385
1560 EPPLER FAY
                       659-3245
1565 KNIGHT R C
                       659-2186
1580 STONE RDSS
                       659-2887
1585 MILLER J B
                       659-3152
1600*MILLS INTERMEDTE SC659-2317
    *MILLS INTMOT SC CAF659-2496
NO #*WHITEHRST FNRL CHPL659-2133
   • 12 BUS 83 RES
                        27 NEW
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a 9	3622 FIREBAUGH	
761	RAMIREZ PETE C	659-2344
762	MANES HOWARD	659-2588
768	OWENS CHESTER E	659-2195
777	LEROY ELIZABETH	659-2183
	LEROY L C	659-2183
838	CASTILLO RAYMOND	659-2450
862	PERA LUTHER	659-2234
874	BORBOA CASEY	659-2270
940	HURTADO PEDRO	659-3185
950	NORTON DON	659-2331
974	BARKSDALE JESSIE	659-2459

Q ST 1973

93622 CONT.. ..0 976 ADAMS CLAUDE 659-2557 984 GILL ANCELMO 659-3335 659-2137+3 986 MENDOZA AUGUSTINE 659-2598 1002 BELLI DEWEY 659-259A BELLI SUSAN 659-2048 1052 PIERI IRENE 659-2162 1082 EARLE VERTNA 659-2797 1086 SCHLETZ RAY 1320 NASH ROBT J 659-2823 659-2590 1329 LOWRY HENRY 1368 MATHEWS PAUL 659-2210 H 1375 GRIFFIN EDNA 659-2388 659-2940 1401 RENFRO W L 00 1408 XXXX 659-2102 1432 SALAZAR MIKE 1456 PAGANUCCI JUANITA 659-2441+3 659-3070 1461 DIEDRICH JOHN 1526 SPEAKES JOHN 659-2547 1538 CRAVENS BENNIE 659-3216+3 *FIRST BAPTIST CH 659-2339 NO @*PARKSIDE SCHOOL OFC659-2353 2 BUS 30 RES 3 NEW

Hazel M. Bailey Primary School 1691 Q Street Firebaugh, CA 93622

Inquiry Number: 7620730.3

April 10, 2024

Certified Sanborn® Map Report



Certified Sanborn® Map Report

04/10/24

Site Name: Client Name:

Hazel M. Bailey Primary Schoo Rincon

1691 Q Street 180 North Ashwood Avenue Firebaugh, CA 93622 Ventura, CA 93003-0000 EDR Inquiry # 7620730.3 Contact: Savanna Vrevich



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Certified Sanborn Results:

Certification # 7A61-497A-91E8

PO # 23-15573

Project NA

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 7A61-497A-91E8

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✓ Library of Congress

University Publications of America

▼ EDR Private Collection

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Appendix C

Regulatory Records Database Search

Hazel M. Bailey Primary School 1691 Q Street Firebaugh, CA 93622

Inquiry Number: 07620730.2r

April 10, 2024

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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TARGET PROPERTY INFORMATION

ADDRESS

1691 Q STREET FIREBAUGH, CA 93622

COORDINATES

Latitude (North): 36.8542780 - 36° 51' 15.40" Longitude (West): 120.4460770 - 120° 26' 45.87"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 727697.8 UTM Y (Meters): 4081549.2

Elevation: 148 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 50005158 FIREBAUGH, CA

Version Date: 2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20200619 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 1691 Q STREET FIREBAUGH, CA 93622

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS		RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	FIREBAUGH LAS DELTAS	1691 Q STREET	HWTS		TP
A2	FIREBAUGH LAS DELTAS	1691 Q STREET	RCRA NonGen / NLR		TP
A3	FIREBAUGH LAS DELTAS	1691 Q STREET	RCRA NonGen / NLR		TP
A4	1X HAZEL M. BAILEY	1691 Q ST.	HWTS, HAZNET		TP
A5	FIREBAUGH LAS DELTAS	1691 Q STREET	HWTS, HAZNET		TP
A6	FIREBAUGH LAS DELTAS	1691 Q STREET	HWTS		TP
A7	FIREBAUGH LAS DELTAS	1691 Q STREET	FINDS, ECHO		TP
A8	FIREBAUGH LAS DELTAS	1691 Q ST	HWTS, HAZNET		TP
A9	1X HAZEL M. BAILEY	1691 Q ST.	HWTS, HAZNET		TP
B10	FIREBAUGH SCHOOL DIS	Q ST & SAIPAN	LUST, HIST CORTESE	Higher	43, 0.008, South
B11	FIREBAUGH SCHOOL DIS	Q ST & SAIPAN	LUST, Cortese	Higher	43, 0.008, South
B12	FIREBAUGH SCHOOL DIS	Q ST & SAIPAN	UST FINDER RELEASE	Higher	43, 0.008, South
B13	FIREBAUGH LAS DELTAS	1666 SAIPAN AVE	RCRA NonGen / NLR	Higher	177, 0.034, SSW
B14	FIREBAUGH UNIFIED SC	1657 SAIPAN ST	CUPA Listings	Higher	184, 0.035, SSW
15	COUNTRY CLEANERS	1916 VASQUEZ DR	EDR Hist Cleaner	Higher	280, 0.053, SSE
16	DOROTHY ATKINS	1891 E. CARDELLA ST.	RCRA NonGen / NLR	Higher	635, 0.120, SSE
17	JEFFREY LOUIE	2015 LANDUCCI DR	RCRA NonGen / NLR	Lower	695, 0.132, South
18	MARIA ROCIO MORALES	1950 RIVER LANE	RCRA NonGen / NLR	Lower	850, 0.161, ESE
19	KRISTEN FENNELL	1545 O STREET	RCRA NonGen / NLR	Higher	865, 0.164, West
C20	ELROD FARMING	2070 ENRICO AVE	HIST UST	Lower	1016, 0.192, South
C21	ELROD FARMING	2070 ENRICO ST	SWEEPS UST, HIST UST	Lower	1016, 0.192, South
D22	PG & E FIREBAUGH SUB	1459 SAIPAN	LUST, Cortese, HIST CORTESE, CERS	Higher	1023, 0.194, WSW
D23	PG & E FIREBAUGH SUB	1459 SAIPAN	UST FINDER RELEASE	Higher	1023, 0.194, WSW
D24	FIREBAUGH SERVICE CE	1459 SAIPAN AVE	SWEEPS UST, HIST UST	Higher	1023, 0.194, WSW
D25	PG&E FIREBAUGH SUBST	1459 SAIPAN	LUST, CUPA Listings	Higher	1023, 0.194, WSW
D26	EPPLER & EPPLER /EPP	1459 SAIPAN AVE	RCRA NonGen / NLR	Higher	1023, 0.194, WSW
D27	EPPLER & EPPLER INC/	1459 SAIPAN AVE	HIST UST, HWTS, HAZNET	Higher	1023, 0.194, WSW
28	ROSIE RAMIREZ	1421 R ST	RCRA NonGen / NLR	Higher	1173, 0.222, NW
D29	LONG VALLEY HAY COMP	1433 SAIPAN AVE	CUPA Listings	Higher	1217, 0.230, WSW
30	RIOS RECYCLING	1639 N ST	SWRCY	Higher	1248, 0.236, WSW
E31	FIREBAUGH EQUIPMENT	1529 N ST	RCRA-SQG, SWEEPS UST, HIST UST, FINDS, ECHO, HV	VTS,.Higher	1254, 0.237, West
E32	ORCHARD MACHINERY CO	1529 N ST STE B	CERS HAZ WASTE, HWTS, HAZNET, CERS	Higher	1254, 0.237, West
E33	ORCHARD MACHINERY CO	1529 N ST STE B	RCRA NonGen / NLR	Higher	1254, 0.237, West
E34	ORCHARD MACHINERY CO	1529 N ST #B	CUPA Listings	Higher	1254, 0.237, West
F35	DMR RECYCLING	1461 N ST	SWRCY	Higher	1441, 0.273, West
G36	LAZZ'S CAR WASH	1606 N ST	LUST, Cortese	Higher	1510, 0.286, WSW
G37	LAZZ'S CAR WASH	1606 N ST	UST FINDER RELEASE	Higher	1510, 0.286, WSW
G38	LAZZ'S CAR WASH	1606 N	LUST, CUPA Listings, HIST CORTESE	Higher	1510, 0.286, WSW
H39	AG & INDUSTRIAL SUPP	7377 RIVER DRIVE	UST FINDER RELEASE	Higher	1512, 0.286, ENE

MAPPED SITES SUMMARY

Target Property Address: 1691 Q STREET FIREBAUGH, CA 93622

Click on Map ID to see full detail.

MAP	0/75 1/41/5	100000	DATABASE ASSOCIATIO	RELATIVE	DIST (ft. & mi.)
ID H40	SITE NAME AG & INDUSTRIAL SUPP	ADDRESS 7377 RIVER DRIVE	DATABASE ACRONYMS LUST, Cortese, CERS	ELEVATION Higher	DIRECTION 1512, 0.286, ENE
H41	AG & INDUSTRIAL SUPP	7377 RIVERDRIVE	HIST UST, HIST CORTESE	Higher	1512, 0.286, ENE
F42	CHEVRON #2544	1407 N ST/14TH ST	UST FINDER RELEASE	Higher	1556, 0.295, West
F43	CHEVRON #2544	1407 ST/14TH	LUST, Cortese, HIST CORTESE, CERS	Higher	1556, 0.295, West
144	VACANT COMMERCIAL BU	1388 O STREET	US BROWNFIELDS, FINDS	Higher	1573, 0.298, WNW
145	TWO RESIDENTIAL DWEL	1368/1370 O STREET	US BROWNFIELDS, FINDS	Higher	1607, 0.304, WNW
146	VACANT BLUE HOUSE	1459 14TH STREET	US BROWNFIELDS, FINDS	Higher	1615, 0.306, WNW
147	SALLY ANNS/VALLEY GA	1381/1415/1435 14TH	US BROWNFIELDS, FINDS	Higher	1698, 0.322, West
148	BELLI CAR WASH	1365 N STREET	US BROWNFIELDS, FINDS	Higher	1769, 0.335, WNW
J49	QUALITY MACHINERY CE	1366 N ST	UST FINDER RELEASE	Higher	1856, 0.352, West
J50	JA QUINN TRUST	1366 N STREET	US BROWNFIELDS, FINDS	Higher	1856, 0.352, West
J51	J.A. QUINN TRUST	1366 N ST	UST FINDER RELEASE	Higher	1856, 0.352, West
J52	QUALITY MACHINERY CE	1366 N ST	LUST, Cortese, CUPA Listings, HIST CORTESE, CERS	Higher	1856, 0.352, West
J53	VACANT LOT/FORMER MO	1339/1347 N STREET	US BROWNFIELDS, FINDS	Higher	1876, 0.355, WNW
K54	APARTMENTS - 1264 P	1264 P STREET	US BROWNFIELDS, FINDS	Higher	1944, 0.368, WNW
L55	CLIFF'S EXXON	1307 N ST	LUST, CERS TANKS, CUPA Listings, HIST CORTESE,	Higher	1957, 0.371, WNW
L56	CLIFFS EXXON	1307 N ST	LUST, SWEEPS UST, HIST UST, Cortese, EMI	Higher	1957, 0.371, WNW
L57	CLIFF'S EXXON	1307 N ST	UST FINDER RELEASE	Higher	1957, 0.371, WNW
58	AG AND INDUSTRIAL SU	7377 RIVERDRIVE	LUST, SWEEPS UST, HIST UST	Higher	1999, 0.379, East
M59	CALPINE CONTAINER FA	1440 M ST	UST FINDER RELEASE	Higher	2034, 0.385, West
M60	CALPINE CONTAINER FA	1440 M ST	LUST, Cortese, CUPA Listings, HIST CORTESE, CERS	Higher	2034, 0.385, West
K61	APARTMENTS -1238 P S	1238 P STREET	US BROWNFIELDS, FINDS	Higher	2065, 0.391, WNW
N62	VACANT COMMERCIAL/RE	1231 O STREET	US BROWNFIELDS, FINDS	Higher	2111, 0.400, WNW
N63	FIREBAUGH, CITY OF	12TH & O ST	LUST	Higher	2343, 0.444, WNW
N64	FIREBAUGH, CITY OF	12TH & O ST	LUST, Cortese, HIST CORTESE	Higher	2343, 0.444, WNW
N65	FIREBAUGH, CITY OF	12TH & O ST	UST FINDER RELEASE	Higher	2343, 0.444, WNW
O66	FINANCE AND THRIFT	1190 O ST	LUST, SWEEPS UST, Cortese, CUPA Listings, HIST	Higher	2432, 0.461, WNW
O67	FINANCE & THRIFT	1190 O ST	UST FINDER RELEASE	Higher	2432, 0.461, WNW
O68	COMMERCIAL PROPERTIE	1174/1178 O STREET	US BROWNFIELDS, FINDS	Higher	2491, 0.472, WNW
O69	COMMERCIAL PROPERTY	1148 O STREET	US BROWNFIELDS, FINDS	Higher	2608, 0.494, WNW
O70	UNOCAL #3371	1185 N ST	UST FINDER RELEASE	Higher	2612, 0.495, WNW
071	UNOCAL #3371	1185 N ST	LUST, Cortese, CUPA Listings, HIST CORTESE, CERS	Higher	2612, 0.495, WNW
72	WESTSIDE FORD LINCOL	1503 EIGHTH STREET	LUST, Cortese, Notify 65, CERS	Higher	4253, 0.805, NW
P73	TRI-AIR, INCORPORATE	915 TENTH STREET	HIST Cal-Sites, Cortese	Higher	4601, 0.871, West
P74	TRI-AIR, INC.	915 TENTH STREET	RESPONSE, ENVIROSTOR, DEED, CA BOND EXP. PLA	N Higher	4601, 0.871, West
75	VALLEY HEALTH TEAM -	689 N STREET	ENVIROSTOR	Higher	4785, 0.906, NW

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:

Site	Database(s)	EPA ID
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	HWTS	N/A
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	RCRA NonGen / NLR EPA ID:: CAC002968900	CAC002968900
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	RCRA NonGen / NLR EPA ID:: CAC003177543	CAC003177543
1X HAZEL M. BAILEY 1691 Q ST. FIREBAUGH, CA 93622	HWTS HAZNET GEPAID: CAC002218705	N/A
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	HWTS HAZNET GEPAID: CAC002968900 GEPAID: CAC002954225	N/A
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	HWTS	N/A
FIREBAUGH LAS DELTAS 1691 Q STREET FIREBAUGH, CA 93622	FINDS Registry ID:: 110070401525 ECHO Registry ID: 110070401525	N/A
FIREBAUGH LAS DELTAS 1691 Q ST FIREBAUGH, CA 93622	HWTS HAZNET GEPAID: CAC002362751	N/A
1X HAZEL M. BAILEY 1691 Q ST. FIREBAUGH, CA 93622	HWTS HAZNET GEPAID: CAC000843904	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

Lists of Federal NPL (Super	fund) sites
NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
NPL LIENS	- Federal Superfund Liens
Lists of Federal Delisted NP	PL sites
Delisted NPL	National Priority List Deletions
Lists of Federal sites subject	ct to CERCLA removals and CERCLA orders
FEDERAL FACILITY	Federal Facility Site Information listing
SEMS	Superfund Enterprise Management System
Lists of Federal CERCLA sit	tes with NFRAP
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Lists of Federal RCRA facili	ities undergoing Corrective Action
CORRACTS	. Corrective Action Report
Lists of Federal RCRA TSD	facilities
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
1.01.01.11.11.11.11.11.11.11.11.11.11.11	Troumont, Clorage and Diopocal
Lists of Federal RCRA gene	erators
	RCRA - Large Quantity Generators
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity
	Generators)
Federal institutional control	ls / engineering controls registries
	Land Use Control Information System
	Engineering Controls Sites List
US INST CONTROLS	Institutional Controls Sites List
Federal ERNS list	
ERNS	Emergency Response Notification System

Lists of state	e and tribal	landfills an	d solid waste	e disposal	facilities

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

Lists of state and tribal leaking storage tanks

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

Lists of state and tribal registered storage tanks

FEMA UST...... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

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

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database HAULERS...... Registered Waste Tire Haulers Listing

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

Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

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

SCH..... School Property Evaluation Program

CDL...... Clandestine Drug Labs Toxic Pits...... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CERS TANKS..... California Environmental Reporting System (CERS) Tanks

CA FID UST..... Facility Inventory Database

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

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites

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)

..... 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

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

MINES MRDS..... Mineral Resources Data System UXO...... Unexploded Ordnance Sites

DOCKET HWC..... Hazardous Waste Compliance Docket Listing

FUELS PROGRAM..... EPA Fuels Program Registered Listing PFAS NPL.....Superfund Sites with PFAS Detections Information

PFAS FEDERAL SITES..... Federal Sites PFAS Information PFAS TRIS.....List of PFAS Added to the TRI

PFAS TSCA..... PFAS Manufacture and Imports Information

PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing

PFAS ATSDR..... PFAS Contamination Site Location Listing PFAS WQP...... Ambient Environmental Sampling for PFAS

PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing

PFAS PART 139 AIRPORT... All Certified Part 139 Airports PFAS Information Listing AQUEOUS FOAM NRC...... Aqueous Foam Related Incidents Listing

AQUEOUS FOAM...... Former Fire Training Facility Assessments Listing

CHROME PLATING..... Chrome Plating Facilities Listing

DRYCLEANERS..... Cleaner Facilities

EMI______ Emissions Inventory Data ENF_____ Enforcement Action Listing

Financial Assurance Financial Assurance Information Listing ICE Inspection, Compliance and Enforcement 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

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

UST FINDER..... UST Finder Database

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

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

Lists of Federal RCRA generators

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 12/04/2023 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH EQUIPMENT	1529 N ST	W 1/8 - 1/4 (0.237 mi.)	E31	54
EPA ID:: CAD981676315				

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: 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.

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI-AIR, INC.	915 TENTH STREET	W 1/2 - 1 (0.871 mi.)	P74	184
Database: RESPONSE, Date of G	overnment Version: 01/22/2024			
Status: Active				
Facility Id: 10070021				

Lists of state- and tribal hazardous waste facilities

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 01/22/2024 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI-AIR, INC. Facility Id: 10070021 Status: Active	915 TENTH STREET	W 1/2 - 1 (0.871 mi.)	P74	184
VALLEY HEALTH TEAM - Facility Id: 60003090 Status: No Action Required	689 N STREET	NW 1/2 - 1 (0.906 mi.)	75	190

Lists of state and tribal leaking storage tanks

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 are 17 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SCHOOL DIS Database: LUST REG 5, Date of Gove Status: Case Closed	Q ST & SAIPAN ernment Version: 07/01/2008	S 0 - 1/8 (0.008 mi.)	B10	22
FIREBAUGH SCHOOL DIS Database: LUST, Date of Government Status: Completed - Case Closed Global Id: T0601993682	Q ST & SAIPAN t Version: 12/04/2023	S 0 - 1/8 (0.008 mi.)	B11	23
PG & E FIREBAUGH SUB Database: LUST REG 5, Date of Gove Status: Case Closed	1459 SAIPAN ernment Version: 07/01/2008	WSW 1/8 - 1/4 (0.194 mi.)	D22	39
PG&E FIREBAUGH SUBST Database: LUST, Date of Government Status: Completed - Case Closed Global Id: T0601900548	1459 SAIPAN t Version: 12/04/2023	WSW 1/8 - 1/4 (0.194 mi.)	D25	43
LAZZ'S CAR WASH Database: LUST REG 5, Date of Gove Status: Case Closed	1606 N ST ernment Version: 07/01/2008	WSW 1/4 - 1/2 (0.286 mi.)	G36	75
LAZZ'S CAR WASH Database: LUST, Date of Government Status: Completed - Case Closed Global Id: T0601900546	1606 N t Version: 12/04/2023	WSW 1/4 - 1/2 (0.286 mi.)	G38	77
AG & INDUSTRIAL SUPP Database: LUST, Date of Government	7377 RIVER DRIVE t Version: 12/04/2023	ENE 1/4 - 1/2 (0.286 mi.)	H40	80

Status: Open - Site Assessment Global Id: T0603900057 CHEVRON #2544 1407 ST/14TH W 1/4 - 1/2 (0.295 mi.) F43 87 Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Completed - Case Closed Status: Case Closed Global Id: T0601900021 **QUALITY MACHINERY CE** 1366 N ST W 1/4 - 1/2 (0.352 mi.) J52 104 Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Completed - Case Closed Status: Case Closed Global Id: T0601900310 Global Id: T0601900549 **CLIFF'S EXXON** 1307 N ST WNW 1/4 - 1/2 (0.371 mi.) L55 114 Database: LUST, Date of Government Version: 12/04/2023 Status: Completed - Case Closed Global Id: T0601900511 **CLIFFS EXXON** 1307 N ST WNW 1/4 - 1/2 (0.371 mi.) L56 132 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Remedial action (cleanup) Underway AG AND INDUSTRIAL SU 7377 RIVERDRIVE E 1/4 - 1/2 (0.379 mi.) 58 141 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Pollution Characterization **CALPINE CONTAINER FA** 1440 M ST W 1/4 - 1/2 (0.385 mi.) M60 143 Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Completed - Case Closed Status: Pollution Characterization Global Id: T0601900052 FIREBAUGH, CITY OF WNW 1/4 - 1/2 (0.444 mi.) N63 12TH & O ST 153 Database: LUST, Date of Government Version: 12/04/2023 Status: Completed - Case Closed Global Id: T0601900173 FIREBAUGH, CITY OF 12TH & O ST WNW 1/4 - 1/2 (0.444 mi.) N64 155 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Case Closed FINANCE AND THRIFT 1190 O ST WNW 1/4 - 1/2 (0.461 mi.) O66 157 Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Completed - Case Closed Status: Case Closed Global Id: T0601900081 **UNOCAL #3371** 1185 N ST WNW 1/4 - 1/2 (0.495 mi.) O71 166 Database: LUST, Date of Government Version: 12/04/2023 Database: LUST REG 5, Date of Government Version: 07/01/2008 Status: Completed - Case Closed Status: Case Closed

Global Id: T0601900132

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 08/15/2023 has revealed that there are 12 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VACANT COMMERCIAL BU Cleanup Completion Date: -	1388 O STREET	WNW 1/4 - 1/2 (0.298 mi.)	144	90
TWO RESIDENTIAL DWEL Cleanup Completion Date: -	1368/1370 O STREET	WNW 1/4 - 1/2 (0.304 mi.)	I45	92
VACANT BLUE HOUSE Cleanup Completion Date: -	1459 14TH STREET	WNW 1/4 - 1/2 (0.306 mi.)	<i>1</i> 46	93
SALLY ANNS/VALLEY GA Cleanup Completion Date: -	1381/1415/1435 14TH	W 1/4 - 1/2 (0.322 mi.)	147	95
BELLI CAR WASH Cleanup Completion Date: -	1365 N STREET	WNW 1/4 - 1/2 (0.335 mi.)	<i>1</i> 48	99
JA QUINN TRUST Cleanup Completion Date: -	1366 N STREET	W 1/4 - 1/2 (0.352 mi.)	J50	101
VACANT LOT/FORMER MO Cleanup Completion Date: -	1339/1347 N STREET	WNW 1/4 - 1/2 (0.355 mi.)	J53	110
APARTMENTS - 1264 P Cleanup Completion Date: -	1264 P STREET	WNW 1/4 - 1/2 (0.368 mi.)	K54	113
APARTMENTS -1238 P S Cleanup Completion Date: -	1238 P STREET	WNW 1/4 - 1/2 (0.391 mi.)	K61	150
VACANT COMMERCIAL/RE Cleanup Completion Date: -	1231 O STREET	WNW 1/4 - 1/2 (0.400 mi.)	N62	152
COMMERCIAL PROPERTIE Cleanup Completion Date: -	1174/1178 O STREET	WNW 1/4 - 1/2 (0.472 mi.)	O68	162
COMMERCIAL PROPERTY Cleanup Completion Date: -	1148 O STREET	WNW 1/4 - 1/2 (0.494 mi.)	O69	163

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 11/29/2023 has revealed that there are 2 SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RIOS RECYCLING	1639 N ST	WSW 1/8 - 1/4 (0.236 mi.)	30	53

Cert Id: RC279291.001

DMR RECYCLING 1461 N ST W 1/4 - 1/2 (0.273 mi.) F35 75 Cert Id: RC293953.001

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI-AIR, INCORPORATE	915 TENTH STREET	W 1/2 - 1 (0.871 mi.)	P73	177

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.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/16/2024 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ORCHARD MACHINERY CO	1529 N ST STE B	W 1/8 - 1/4 (0.237 mi.)	E32	60

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SERVICE CE Status: A Tank Status: A Comp Number: 28258	1459 SAIPAN AVE	WSW 1/8 - 1/4 (0.194 mi.)	D24	42
FIREBAUGH EQUIPMENT Comp Number: 8777	1529 N ST	W 1/8 - 1/4 (0.237 mi.)	E31	54
Lower Elevation	Address	Direction / Distance	Map ID	Page
ELROD FARMING	2070 ENRICO ST	S 1/8 - 1/4 (0.192 mi.)	C21	38

Status: A Tank Status: A Comp Number: 53042

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 5 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SERVICE CE Facility Id: 00000028258	1459 SAIPAN AVE	WSW 1/8 - 1/4 (0.194 mi.)	D24	42
EPPLER & EPPLER INC/ FIREBAUGH EQUIPMENT Facility Id: 00000008777	1459 SAIPAN AVE 1529 N ST	WSW 1/8 - 1/4 (0.194 mi.) W 1/8 - 1/4 (0.237 mi.)	D27 E31	47 54
Lower Elevation	Address	Direction / Distance	Map ID	Page
ELROD FARMING Facility Id: 00000053042	2070 ENRICO AVE	S 1/8 - 1/4 (0.192 mi.)	C20	38
ELROD FARMING	2070 ENRICO ST	S 1/8 - 1/4 (0.192 mi.)	C21	38

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 12/04/2023 has revealed that there are 8 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH LAS DELTAS EPA ID:: CAL000209223	1666 SAIPAN AVE	SSW 0 - 1/8 (0.034 mi.)	B13	26
DOROTHY ATKINS EPA ID:: CAC002989917	1891 E. CARDELLA ST.	SSE 0 - 1/8 (0.120 mi.)	16	29
KRISTEN FENNELL EPA ID:: CAC003089402	1545 O STREET	W 1/8 - 1/4 (0.164 mi.)	19	36
EPPLER & EPPLER /EPP EPA ID:: CAL000317149	1459 SAIPAN AVE	WSW 1/8 - 1/4 (0.194 mi.)	D26	45
ROSIE RAMIREZ EPA ID:: CAC003073357	1421 R ST	NW 1/8 - 1/4 (0.222 mi.)	28	51
ORCHARD MACHINERY CO EPA ID:: CAL000386334	1529 N ST STE B	W 1/8 - 1/4 (0.237 mi.)	E33	72
Lower Elevation	Address	Direction / Distance	Map ID	Page
JEFFREY LOUIE	2015 LANDUCCI DR	S 1/8 - 1/4 (0.132 mi.)	17	31

EPA ID:: CAC003088295

MARIA ROCIO MORALES 1950 RIVER LANE ESE 1/8 - 1/4 (0.161 mi.) 18 33

EPA ID:: CAC003113941

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI-AIR, INC.	915 TENTH STREET	W 1/2 - 1 (0.871 mi.)	P74	184

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 12/13/2023 has revealed that there are 11 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SCHOOL DIS Cleanup Status: COMPLETED - CASE	Q ST & SAIPAN CLOSED	S 0 - 1/8 (0.008 mi.)	B11	23
PG & E FIREBAUGH SUB Cleanup Status: COMPLETED - CASE	1459 SAIPAN CLOSED	WSW 1/8 - 1/4 (0.194 mi.)	D22	39
LAZZ'S CAR WASH Cleanup Status: COMPLETED - CASE	1606 N ST CLOSED	WSW 1/4 - 1/2 (0.286 mi.)	G36	<i>7</i> 5
AG & INDUSTRIAL SUPP Cleanup Status: OPEN - SITE ASSESS		ENE 1/4 - 1/2 (0.286 mi.)	H40	80
CHEVRON #2544 Cleanup Status: COMPLETED - CASE	1407 ST/14TH CLOSED	W 1/4 - 1/2 (0.295 mi.)	F43	87
QUALITY MACHINERY CE Cleanup Status: COMPLETED - CASE	1366 N ST CLOSED	W 1/4 - 1/2 (0.352 mi.)	J52	104
CLIFFS EXXON Cleanup Status: COMPLETED - CASE	1307 N ST CLOSED	WNW 1/4 - 1/2 (0.371 mi.)	L56	132
CALPINE CONTAINER FA Cleanup Status: COMPLETED - CASE	1440 M ST CLOSED	W 1/4 - 1/2 (0.385 mi.)	M60	143
FIREBAUGH, CITY OF Cleanup Status: COMPLETED - CASE	12TH & O ST CLOSED	WNW 1/4 - 1/2 (0.444 mi.)	N64	155
FINANCE AND THRIFT Cleanup Status: COMPLETED - CASE	1190 O ST CLOSED	WNW 1/4 - 1/2 (0.461 mi.)	O66	157
UNOCAL #3371 Cleanup Status: COMPLETED - CASE	1185 N ST CLOSED	WNW 1/4 - 1/2 (0.495 mi.)	071	166

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 4 CUPA Listings sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH UNIFIED SC Database: CUPA FRESNO, Date of Facility Id: FA0170677	1657 SAIPAN ST Government Version: 06/28/2021	SSW 0 - 1/8 (0.035 mi.)	B14	28
PG&E FIREBAUGH SUBST Database: CUPA FRESNO, Date of Facility Id: FA0270806	1459 SAIPAN Government Version: 06/28/2021	WSW 1/8 - 1/4 (0.194 mi.)	D25	43
LONG VALLEY HAY COMP Database: CUPA FRESNO, Date of Facility Id: FA0283041	1433 SAIPAN AVE Government Version: 06/28/2021	WSW 1/8 - 1/4 (0.230 mi.)	D29	53
ORCHARD MACHINERY CO Database: CUPA FRESNO, Date of Facility Id: FA0170181	1529 N ST #B Government Version: 06/28/2021	W 1/8 - 1/4 (0.237 mi.)	E34	74

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 [CALSITES]. 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 are 11 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SCHOOL DIS Reg Id: 5T10000005 Reg Id: 5T10000014	Q ST & SAIPAN	S 0 - 1/8 (0.008 mi.)	B10	22
PG & E FIREBAUGH SUB Reg ld: 5T10000565	1459 SAIPAN	WSW 1/8 - 1/4 (0.194 mi.)	D22	39
LAZZ'S CAR WASH Reg ld: 5T10000563	1606 N	WSW 1/4 - 1/2 (0.286 mi.)	G38	77
AG & INDUSTRIAL SUPP Reg Id: 5T200000057	7377 RIVERDRIVE	ENE 1/4 - 1/2 (0.286 mi.)	H41	85
CHEVRON #2544 Reg Id: 5T10000021	1407 ST/14TH	W 1/4 - 1/2 (0.295 mi.)	F43	87
QUALITY MACHINERY CE Reg Id: 5T10000566 Reg Id: 5T10000314	1366 N ST	W 1/4 - 1/2 (0.352 mi.)	J52	104
CLIFF'S EXXON Reg Id: 5T10000528	1307 N ST	WNW 1/4 - 1/2 (0.371 mi.)	L55	114
CALPINE CONTAINER FA Reg Id: 5T10000053	1440 M ST	W 1/4 - 1/2 (0.385 mi.)	M60	143
FIREBAUGH, CITY OF	12TH & O ST	WNW 1/4 - 1/2 (0.444 mi.)	N64	155

Reg Id: 5T10000175

FINANCE AND THRIFT Reg ld: 5T10000082	1190 O ST	WNW 1/4 - 1/2 (0.461 mi.) O66	157
UNOCAL #3371 Rea ld: 5T10000134	1185 N ST	WNW 1/4 - 1/2 (0.495 mi.) O71	166

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 12/06/2023 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WESTSIDE FORD LINCOL	1503 EIGHTH STREET	NW 1/2 - 1 (0.805 mi.)	72	169

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 12 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIREBAUGH SCHOOL DIS	Q ST & SAIPAN	S 0 - 1/8 (0.008 mi.)	B12	25
PG & E FIREBAUGH SUB	1459 SAIPAN	WSW 1/8 - 1/4 (0.194 mi.)	D23	41
LAZZ'S CAR WASH	1606 N ST	WSW 1/4 - 1/2 (0.286 mi.)	G37	76
AG & INDUSTRIAL SUPP	7377 RIVER DRIVE	ENE 1/4 - 1/2 (0.286 mi.)	H39	79
CHEVRON #2544	1407 N ST/14TH ST	W 1/4 - 1/2 (0.295 mi.)	F42	86
QUALITY MACHINERY CE	1366 N ST	W 1/4 - 1/2 (0.352 mi.)	J49	100
J.A. QUINN TRUST	1366 N ST	W 1/4 - 1/2 (0.352 mi.)	J51	103
CLIFF'S EXXON	1307 N ST	WNW 1/4 - 1/2 (0.371 mi.)	L57	140
CALPINE CONTAINER FA	1440 M ST	W 1/4 - 1/2 (0.385 mi.)	M59	142
FIREBAUGH, CITY OF	12TH & O ST	WNW 1/4 - 1/2 (0.444 mi.)	N65	156
FINANCE & THRIFT	1190 O ST	WNW 1/4 - 1/2 (0.461 mi.)	O67	161
UNOCAL #3371	1185 N ST	WNW 1/4 - 1/2 (0.495 mi.)	O70	165

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

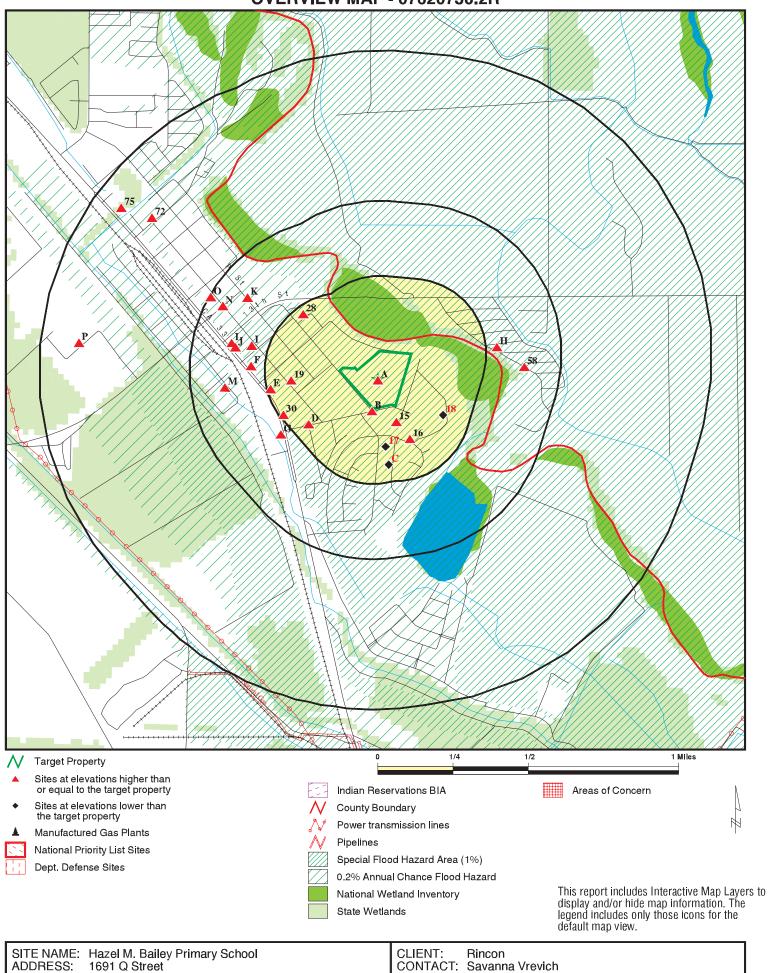
& dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government 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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTRY CLEANERS	1916 VASQUEZ DR	SSE 0 - 1/8 (0.053 mi.)	15	29

There were no unmapped sites in this report.

OVERVIEW MAP - 07620730.2R



Firebaugh CA 93622

36.854278 / 120.446077

LAT/LONG:

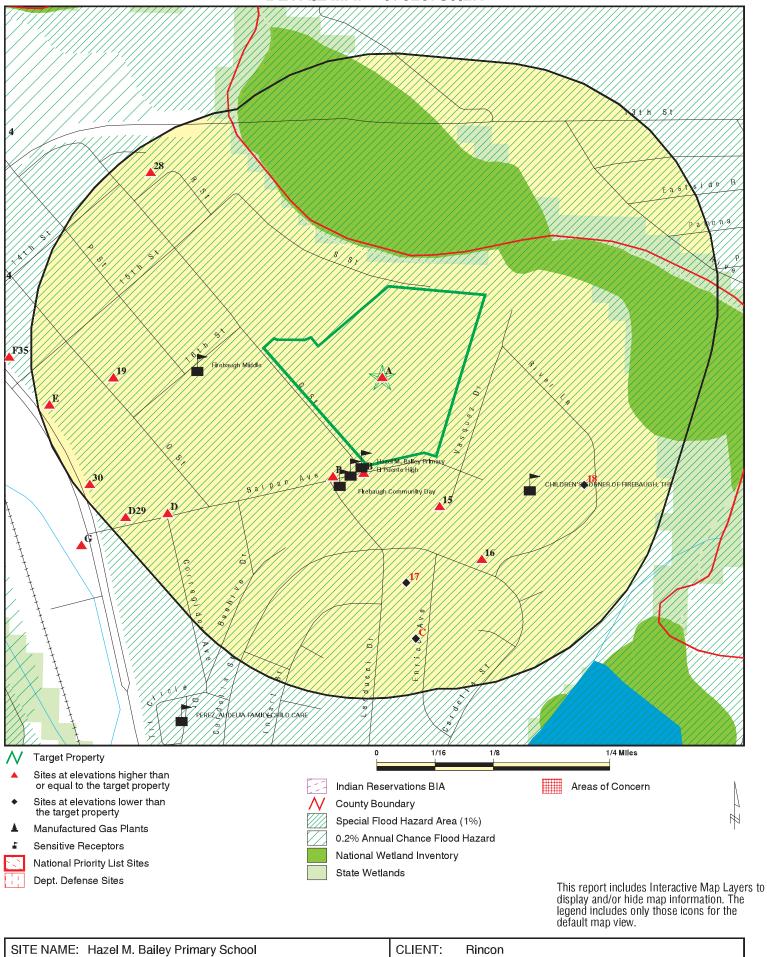
April 10, 2024 4:20 pm

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INQUIRY #: 07620730.2r

DATE:

DETAIL MAP - 07620730.2R



DATE: April 10, 2024 4:24 pm

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Savanna Vrevich

CONTACT:

INQUIRY #: 07620730.2r

ADDRESS:

LAT/LONG:

1691 Q Street

Firebaugh CA 93622

36.854278 / 120.446077

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Lists of Federal NPL (Su	perfund) site	s						
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Lists of Federal Delisted	NPL sites							
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites sul CERCLA removals and C		ers						
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of Federal CERCLA	A sites with N	FRAP						
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA fa undergoing Corrective A								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA To	SD facilities							
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA ge	enerators							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 1 0	NR NR NR	NR NR NR	NR NR NR	0 1 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent s	sites							
RESPONSE	1.000		0	0	0	1	NR	1
Lists of state- and tribal hazardous waste facilities	es							
ENVIROSTOR	1.000		0	0	0	2	NR	2
Lists of state and tribal land solid waste disposa								
SWF/LF	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal le	eaking storaç	ge tanks						
LUST INDIAN LUST CPS-SLIC	0.500 0.500 0.500		2 0 0	2 0 0	13 0 0	NR NR NR	NR NR NR	17 0 0
Lists of state and tribal r	egistered sto	orage tanks						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Lists of state and tribal v	oluntary clea	anup sites						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of state and tribal k	prownfield sit	tes						
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORD	<u>s</u>						
Local Brownfield lists	0.500			•	40	ND	ND	40
US BROWNFIELDS Local Lists of Landfill / S	0.500		0	0	12	NR	NR	12
Waste Disposal Sites	oona							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.001 0.500 0.500 0.500 0.500		0 0 0 0 0 0	0 1 NR 0 0 0	0 1 NR 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 2 0 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US HIST CDL HIST Cal-Sites SCH CDL Toxic Pits CERS HAZ WASTE US CDL	0.001 1.000 0.250 0.001 1.000 0.250 0.001		0 0 0 0 0 0	NR 0 0 NR 0 1 NR	NR 0 NR NR 0 NR	NR 1 NR NR 0 NR NR	NR NR NR NR NR NR	0 1 0 0 0 1
Local Lists of Registered	d Storage Tai	nks						
SWEEPS UST HIST UST CERS TANKS CA FID UST	0.250 0.250 0.250 0.250		0 0 0 0	3 5 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	3 5 0 0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2 DEED	0.001 0.500		0	NR 0	NR 0	NR NR	NR NR	0 0
Records of Emergency I	Release Repo	orts						
HMIRS CHMIRS LDS MCS SPILLS 90	0.001 0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Other Ascertainable Rec	cords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES	0.250 1.000 1.000 0.500 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.500 0.001 0.001 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.500 0.001 0.500 0.500 0.001 0.250 0.250	2	200000000000000000000000000000000000000	6 0 0 0 RR 0 RR R 0 RR RR RR RR R O RR RR O O O O	N O O O R R R R R O R R R R R R R O R R R R R O O O O R R R R R R N N N N	N O O N N N N N N N O O N N N N N N N N	R R R R R R R R R R R R R R R R R R R	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MINES MRDS FINDS UXO DOCKET HWC ECHO FUELS PROGRAM PFAS NPL PFAS FEDERAL SITES	0.250 0.001 1.000 0.001 0.001 0.250 0.250 0.250	1	0 0 0 0 0 0	0 NR 0 NR NR 0 0	NR NR O NR NR NR NR	NR NR 0 NR NR NR NR	NR NR NR NR NR NR NR	0 1 0 0 1 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		Ö	Ö	NR	NR	NR	Ö
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINI			0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT			0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1 ND	NR NR	1
CHROME PLATING	0.500 0.500		0 1	0 1	0 9	NR NR	NR NR	0 11
Cortese CUPA Listings	0.500		1	3	9 NR	NR NR	NR NR	4
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.230		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	Ő
Financial Assurance	0.001		Ő	NR	NR	NR	NR	Ö
ICE	0.001		Ö	NR	NR	NR	NR	Ö
HIST CORTESE	0.500		1	1	9	NR	NR	11
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001	6	0	NR	NR	NR	NR	6
HAZNET	0.001	4	0	NR	NR	NR	NR	4
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
HAZMAT UIC	0.250 0.001		0 0	0 NR	NR NR	NR NR	NR NR	0 0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		Ö	NR	NR	NR	NR	Ö
WIP	0.250		Ö	0	NR	NR	NR	Ö
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR NB	NR	NR NB	0
UST FINDER	0.250		0 1	0	NR 10	NR NB	NR NB	0 12
UST FINDER RELEASE	0.500		ı	1	10	NR	NR	۱Z

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP EDR Hist Auto EDR Hist Cleaner	1.000 0.125 0.125		0 0 1	0 NR NR	0 NR NR	0 NR NR	NR NR NR	0 0 1
EDR RECOVERED GOVERN	MENT ARCHIVE	<u>s</u>						
Exclusive Recovered Go	vt. Archives							
RGA LF RGA LUST	0.001 0.001		0	NR NR	NR NR	NR NR	NR NR	0 0
- Totals		14	9	25	54	6	0	108

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number Database(s) EPA ID Number

A1 FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT HWTS S124687694
Target 1691 Q STREET N/A

Target 1691 Q STREET
Property FIREBAUGH, CA 93622

Site 1 of 9 in cluster A

Site 1 of 9 in cluster A

Actual: HWTS: 148 ft. Nam

Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Address: 1691 Q STREET
Address 2: Not reported

 City, State, Zip:
 FIREBAUGH, CA 93622

 EPA ID:
 CAC002968900

 Inactive Date:
 09/28/2018

 Create Date:
 06/29/2018

 Last Act Date:
 Not reported

 Mailing Name:
 Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL

Owner Address: 1976 MORRIS KYLE DR.

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 93622

Owner Phone: Not reported Owner Fax: Not reported

Contact Name: RUSSELL FREITAS
Contact Address: 1976 MORRIS KYLE DR.

Contact Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 93622

Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 36.853108
Longitude: -120.44667

NAICS:

EPA ID: CAC002968900

Create Date: 2018-06-29 14:46:17.600

NAICS Code: 611110

NAICS Description: Elementary and Secondary Schools Issued EPA ID Date: 2018-06-29 14:46:17.61700 Inactive Date: 2018-09-28 14:46:17.42700

Facility Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Facility Address: 1691 Q STREET
Facility Address 2: Not reported
Facility City: FIREBAUGH
Facility County: Not reported

Facility State: CA
Facility Zip: 93622

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

A2 FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT RCRA NonGen / NLR 1024749114 CAC002968900

Target 1691 Q STREET FIREBAUGH, CA 93622 **Property**

Site 2 of 9 in cluster A

Actual: RCRA Listings:

148 ft. Date Form Received by Agency: 20180629

Firebaugh Las Deltas Unified School District Handler Name:

Handler Address: 1691 Q STREET Handler City, State, Zip: FIREBAUGH, CA 93622 EPA ID: CAC002968900 **RUSSELL FREITAS** Contact Name:

Contact Address: 1976 MORRIS KYLE DR. Contact City, State, Zip: FIREBAUGH, CA 93622 Contact Telephone: 559-659-1476

Contact Fax: Not reported

Contact Email: DTHOMPSON@PARCENVIRONMENTAL.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: Handler Activities State District Owner: Not reported State District: Not reported

Mailing Address: 1976 MORRIS KYLE DR. Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: Firebaugh Las Deltas Unified School

Owner Type: Other

Operator Name: Russell Freitas 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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator:

Sub-Part K Indicator: Not reported 2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: No Subject to Corrective Action Universe: No Non-TSDFs Where RCRA CA has Been Imposed Universe: No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT (Continued)

1024749114

Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A 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: 20180831 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: FIREBAUGH LAS DELTAS UNIFIED SCHOOL

Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported

1976 MORRIS KYLE DR. Owner/Operator Address: Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-1476 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

Owner/Operator Name: RUSSELL FREITAS

Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported

Owner/Operator Address: 1976 MORRIS KYLE DR. Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-1476 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20180629

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT Handler Name: 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 Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT (Continued)

1024749114

CAC003177543

List of NAICS Codes and Descriptions:

NAICS Code: 611110

NAICS Description: **ELEMENTARY AND SECONDARY SCHOOLS**

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

А3

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY RCRA NonGen / NLR 1027213003

1691 Q STREET Target Property FIREBAUGH, CA 93622

Site 3 of 9 in cluster A

Actual: RCRA Listings: 148 ft. Date Form Received by Agency: 20220523

Firebaugh Las Deltas Usd / Hazel Bailey Handler Name:

Handler Address: 1691 Q STREET Handler City, State, Zip: FIREBAUGH, CA 93622 CAC003177543 EPA ID: Contact Name: **RUSSELL FREITAS** Contact Address: 1976 MORRIS KYLE DR.

Contact City, State, Zip: FIREBAUGH, CA 93622 Contact Telephone: 559-659-1476 Contact Fax: Not reported

RFREITAS@FLDUSD.ORG Contact Email:

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 Not reported State District Owner: State District: Not reported

Mailing Address: 1976 MORRIS KYLE DR. Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: Firebaugh Las Deltas Unified School

Owner Type: Other

Operator Name: Russell Freitas

Operator Type: Other Short-Term Generator Activity: No Importer Activity: Nο 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: Nο

Map ID MAP FINDINGS

Direction

Elevation Site Database(s) EPA ID Number

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY (Continued)

1027213003

EDR ID Number

Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler: ---

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: N

Sub-Part K Indicator:

2018 GPRA Permit Baseline:

Not on the Baseline

2018 GPRA Renewals Baseline:

Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed 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 Significant Non-Complier Universe: Nο 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: 20220525

Recognized Trader-Importer:

Recognized Trader-Exporter:

No
Importer of Spent Lead Acid Batteries:

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: RUSSELL FREITAS

 Legal Status:
 Other

 Date Became Current:
 Not reported

 Date Ended Current:
 Not reported

Owner/Operator Address: 1976 MORRIS KYLE DR.
Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-1476
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL

Legal Status: Other

Date Became Current: Not reported

Date Ended Current: Not reported

Not reported

Address: Not reported

Owner/Operator Address: 1976 MORRIS KYLE DR.
Owner/Operator City,State,Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-1476
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY (Continued)

1027213003

S112904868

N/A

HWTS

HAZNET

Historic Generators:

Receive Date: 20220523

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY Handler Name: 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: Nο Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 611110

NAICS Description: **ELEMENTARY AND SECONDARY SCHOOLS**

Facility Has Received Notices of Violations:

No Violations Found Violations:

Evaluation Action Summary:

Evaluations: No Evaluations Found

1X HAZEL M. BAILEY Α4 Target 1691 Q ST.

Property FIREBAUGH, CA 93622

Site 4 of 9 in cluster A

Actual: HWTS: 148 ft.

1X HAZEL M. BAILEY Name:

Address: 1691 Q ST. Address 2: Not reported

FIREBAUGH, CA 93622 City,State,Zip: CAC002218705

EPA ID: Inactive Date: 10/25/2000 Create Date: 10/25/1999 Last Act Date: Not reported Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 936220000

Owner Name: FIREBAUGH LOS DELTAS SCHOOL D.

Owner Address: 1976 MORRIS KYLE DR.

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 936220000

Owner Phone: Not reported Owner Fax: Not reported

Contact Name: WILLIAM HUNSAKER Contact Address: 1976 MORRIS KYLE DR.

Contact Address 2: Not reported

FIREBAUGH, CA 936220000 City, State, Zip:

Contact Phone: Not reported Contact Fax: Not reported Map ID MAP FINDINGS

Direction Distance Elevation

ation Site Database(s) EPA ID Number

1X HAZEL M. BAILEY (Continued)

S112904868

EDR ID Number

Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 36.852644
Longitude: -120.447128

HAZNET:

Name: 1X HAZEL M. BAILEY

Address: 1691 Q ST.
Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 936220000

Contact: WILLIAM HUNSAKER

Telephone: 5596591088
Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Year: 1999

 Gepaid:
 CAC002218705

 TSD EPA ID:
 CAL000190080

CA Waste Code: 151 - Asbestos containing waste

Disposal Method: D80 - Disposal, Land Fill

Tons:

Additional Info:

Year: 1999

Gen EPA ID: CAC002218705

Shipment Date: 19991028

Creation Date: 12/17/1999 0:00:00

Receipt Date: 19991102 Manifest ID: 98496933 Trans EPA ID: CAT982507154 Trans Name: Not reported Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAL000190080 Trans Name: Not reported CAL000190080 TSDF Alt EPA ID: TSDF Alt Name: Not reported

Waste Code Description: 151 - Asbestos-containing waste

RCRA Code: Not reported

Meth Code: D80 - Disposal, Land Fill

Quantity Tons: 0
Waste Quantity: 812
Quantity Unit: Y

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

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

A5 FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT HWTS S124673649
Target 1691 Q STREET HAZNET N/A

Property FIREBAUGH, CA 93622

Site 5 of 9 in cluster A

Actual: HWTS: 148 ft. Nam

Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Address: 1691 Q STREET Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 93622 EPA ID: CAC002954225 Inactive Date: 06/23/2018

Inactive Date: 06/23/2018
Create Date: 03/23/2018
Last Act Date: Not reported
Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 93622
Owner Name: FIREBAUGH LAS DELTAS USD
Owner Address: 1976 MORRIS KYLE DR.

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 93622

Owner Phone: Not reported
Owner Fax: Not reported

Contact Name: RUSSELL FREITAS
Contact Address: 1976 MORRIS KYLE DR.

Contact Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 93622

Contact Phone:

Contact Phone:

Not reported

Not reported

Not reported

Inactive

Facility Type:

Category:

Latitude:

Longitude:

Not reported

Not reported

STATE

158853108

120.44667

NAICS:

EPA ID: CAC002954225

Create Date: 2018-03-23 11:37:13.220

NAICS Code: 611110

NAICS Description: Elementary and Secondary Schools Issued EPA ID Date: 2018-03-23 11:37:13.22000 Inactive Date: 2018-06-23 03:00:33.92000

Facility Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Facility Address: 1691 Q STREET
Facility Address 2: Not reported
Facility City: FIREBAUGH
Facility County: Not reported
Facility State: CA

Facility State: CA
Facility Zip: 93622

HAZNET:

Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Address: 1691 Q STREET Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 93622 Contact: RUSSELL FREITAS

Direction Distance

Elevation Site Database(s) EPA ID Number

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT (Continued)

S124673649

EDR ID Number

Telephone: 5596591476
Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Year: 2018

 Gepaid:
 CAC002968900

 TSD EPA ID:
 CAL000190080

CA Waste Code: 151 - Asbestos containing waste

Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As

Landfill(To Include On-Site Treatment And/Or Stabilization)

Tons: 6.90000

Year: 2018

 Gepaid:
 CAC002954225

 TSD EPA ID:
 CAL000190080

CA Waste Code: 151 - Asbestos containing waste

Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As

Landfill(To Include On-Site Treatment And/Or Stabilization)

Tons: 0.46000

Year: 2018

 Gepaid:
 CAC002954225

 TSD EPA ID:
 CAD044429835

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.17500

Detail Two:

 Year:
 2018

 EM Manifest ID:
 168111

 Shipment Date:
 9/20/2018

 Receipt Date:
 10/8/2018

 Manifest Number:
 011860843FLE

 Generator EPA ID:
 CAC002954225

Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT

Address: 1391 Q STREET Address 2: Not reported **FIREBAUGH** City: Zip: 93622 Telephone: 800-483-3718 Contact: Russel Freitas Contact Telephone: 559-659-1476 Transporter 1 EPA ID: MAD039322250 Transporter 1 Emergency Number: Not reported MAD039322250

Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAD044429835

TSDF Name: Clean Harbors Wilmington LLC
TSDF Address 1: 1737 East Denni Street

TSDF Address 2: Not reported TSDF City: Wilmington TSDF Zip: 90744 TSDF Telephone: 800-483-3718

Federal:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISTRICT (Continued)

S124673649

Year: 2018 EM Manifest ID: 168111 Generator EPA ID: CAC002954225 Shipment Date: 2018-09-20 Manifest Number: 011860843FLE

Line Number: H141 Method Code: Quantity Tons: 0.17500 Quantity Waste: 350.000000

Quantity Unit: Number of Containers:

Type of Container: Metal drums, barrels, kegs

Quantity Type: Pounds Federal Code: D008

State:

2018 Year: EM Manifest ID: 168111 Generator EPA ID:

CAC002954225 2018-09-20 Shipment Date: Manifest Number: 011860843FLE

Line Number: Method Code: H141 0.17500 Quantity Tons: Quantity Waste: 350.000000

Quantity Unit: Number of Containers:

Type of Container: Metal drums, barrels, kegs

Quantity Type: Pounds 352 State Code:

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY A6

Target **1691 Q STREET**

Property FIREBAUGH, CA 93622 HWTS \$129453227 N/A

Site 6 of 9 in cluster A

HWTS: Actual: 148 ft.

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY Name:

Address: 1691 Q STREET Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 93622 EPA ID: CAC003177543 Inactive Date: 08/22/2022 Create Date: 05/23/2022

Last Act Date: 08/23/2022 Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR.

Mailing Address 2: Not reported Mailing City, State, Zip: FIREBAUGH, CA

FIREBAUGH LAS DELTAS UNIFIED SCHOOL Owner Name:

1976 MORRIS KYLE DR. Owner Address:

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 93622

Owner Phone: 5596591476 Owner Fax: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

FIREBAUGH LAS DELTAS USD / HAZEL BAILEY (Continued)

S129453227

EDR ID Number

Contact Name: RUSSELL FREITAS
Contact Address: 1976 MORRIS KYLE DR.

Contact Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 93622

Contact Phone: 5596591476
Contact Fax: Not reported
Facility Status: Not reported
Facility Type: Not reported
Category: Not reported
Latitude: Not reported
Longitude: Not reported

A7 FIREBAUGH LAS DELTAS USD / HAZEL BAILEY

FINDS 1024613138 ECHO N/A

Target 1691 Q STREET
Property FIREBAUGH, CA 93622

Site 7 of 9 in cluster A

Actual: FINDS:

148 ft. Registry ID: 110070401525

Click Here for FRS Facility Detail Report: Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many

types of information about generators, transporters, treaters,

storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1024613138 Registry ID: 110070401525

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070401525

Name: FIREBAUGH LAS DELTAS USD / HAZEL BAILEY

Address: 1691 Q STREET
City,State,Zip: FIREBAUGH, CA 93622

A8 FIREBAUGH LAS DELTAS USD/HAZEL M BAILEY HWTS S112915691
Target 1691 Q ST HAZNET N/A

Property FIREBAUGH, CA 93622

Site 8 of 9 in cluster A

Actual: HWTS:

148 ft. Name: FIREBAUGH LAS DELTAS USD/HAZEL M BAILEY

Address: 1691 Q ST Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 93622

EPA ID: CAC002362751
Inactive Date: 01/11/2002
Create Date: 05/31/2001
Last Act Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

FIREBAUGH LAS DELTAS USD/HAZEL M BAILEY (Continued)

S112915691

EDR ID Number

Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR

Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 936220000
Owner Name: FIREBAUGH LAS DELTAS USD
Owner Address: 1976 MORRIS KYLE DR

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 936220000

Owner Phone: Not reported Owner Fax: Not reported

Contact Name: SUSAN RAMIREA/ADMIN SEC Contact Address: 1976 MORRIS KYLE DR

Contact Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 936220000

Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: TEMPORARY
Category: STATE
Latitude: 36.852644
Longitude: -120.447128

HAZNET:

Name: FIREBAUGH LAS DELTAS USD/HAZEL M BAILEY

Not reported

Address: 1691 Q ST Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 936220000
Contact: SUSAN RAMIREA/ADMIN SEC

Telephone: 5596591476
Mailing Name: Not reported

Mailing Address: 1976 MORRIS KYLE DR

Year: 2001

 Gepaid:
 CAC002362751

 TSD EPA ID:
 CAL000190080

CA Waste Code: 151 - Asbestos containing waste Disposal Method: D80 - Disposal, Land Fill

Tons: 1.6856

Additional Info:

TSDF Alt Name:

Year: 2001

Gen EPA ID: CAC002362751

Shipment Date: 20010814

Creation Date: 10/1/2001 0:00:00 Receipt Date: 20010814 Manifest ID: 98497129 Trans EPA ID: CAT982507154 Trans Name: Not reported Trans 2 EPA ID: Not reported Not reported Trans 2 Name: TSDF EPA ID: CAL000190080 Trans Name: Not reported TSDF Alt EPA ID: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS USD/HAZEL M BAILEY (Continued)

S112915691

S112847615

N/A

HWTS

HAZNET

Waste Code Description: 151 - Asbestos-containing waste

RCRA Code: Not reported

Meth Code: D80 - Disposal, Land Fill

Quantity Tons: 1.6856 Waste Quantity: 2 Quantity Unit:

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

Α9 1X HAZEL M. BAILEY **Target** 1691 Q ST.

Property FIREBAUGH, CA 93622

Site 9 of 9 in cluster A

HWTS: Actual: 148 ft.

1X HAZEL M. BAILEY Name:

Address: 1691 Q ST. Address 2: Not reported

FIREBAUGH, CA 93622 City,State,Zip:

CAC000843904 EPA ID: Inactive Date: 10/25/2000 Create Date: 06/23/1993 Last Act Date: Not reported Mailing Name: Not reported

1976 MORRIS KYLE DR. Mailing Address:

Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 936220000

FIREBAUGH LOS DELTAS SCHOOL D. Owner Name:

Not reported Owner Address: Owner Address 2: Not reported Owner City, State, Zip: Not reported Owner Phone: Not reported Owner Fax: Not reported

Contact Name: MARIA CALDERON/ACCT. CLERK

Contact Address: Not reported Contact Address 2: Not reported City, State, Zip: Not reported Contact Phone: Not reported Contact Fax: Not reported Facility Status: Inactive **TEMPORARY** Facility Type: Category: STATE Latitude: 36.852644 Longitude: -120.447128

HAZNET:

1X HAZEL M. BAILEY Name:

Address: 1691 Q ST. Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 936220000 Contact: MARIA CALDERON/ACCT. CLERK

Telephone: 2096591476 Mailing Name: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

1X HAZEL M. BAILEY (Continued)

S112847615

Mailing Address: 1976 MORRIS KYLE DR.

1993 Year:

Gepaid: CAC000843904 TSD EPA ID: CAD981388952

CA Waste Code: 151 - Asbestos containing waste D80 - Disposal, Land Fill Disposal Method:

Tons: 1.2642

Additional Info:

Year: 1993

Gen EPA ID: CAC000843904

Shipment Date: 19930629 Creation Date: 9/8/1995 0:00:00 19930705 Receipt Date: Manifest ID: 92804502 Trans EPA ID: CAD981634892 Trans Name: Not reported Trans 2 EPA ID: Not reported Not reported Trans 2 Name: TSDF EPA ID: CAD981388952 Trans Name: Not reported TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 151 - Asbestos-containing waste

RCRA Code: Not reported

Meth Code: D80 - Disposal, Land Fill

Quantity Tons: 1.2642 Waste Quantity: 1.5 Quantity Unit:

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

B10 FIREBAUGH SCHOOL DISTRICT S103479885 LUST South **Q ST & SAIPAN HIST CORTESE** N/A

< 1/8 FIREBAUGH, CA 93622

0.008 mi.

Site 1 of 5 in cluster B 43 ft.

Relative: LUST REG 5:

Higher Name: FIREBAUGH SCHOOL DISTRICT

Address: Q ST & SAIPAN Actual: City: **FIREBAUGH** 149 ft.

Region: 5

Status: Case Closed 5T10000005* Case Number:

Drinking Water Aquifer affected Case Type:

UNLEAD GASOLINE Substance:

Staff Initials: JWH Lead Agency: Regional Program: LUST MTBE Code: N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH SCHOOL DISTRICT (Continued)

S103479885

HIST CORTESE:

FIREBAUGH SCHOOL DISTRICT edr_fname:

edr_fadd1: Q ST & SAIPAN City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Facility County Code: 10 Reg By: **LTNKA** 5T10000005 Reg Id:

edr_fname: FIREBAUGH SCHOOL DISTRICT

Q ST & SAIPAN edr_fadd1: City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE Facility County Code: 10 Reg By: **LTNKA** 5T10000014 Reg Id:

B11 FIREBAUGH SCHOOL DISTRICT LUST S110654096 South **Q ST & SAIPAN** Cortese N/A

< 1/8 FIREBAUGH, CA 93622

0.008 mi.

Site 2 of 5 in cluster B 43 ft.

LUST: Relative:

Higher Name: FIREBAUGH SCHOOL DISTRICT

Address: Q ST & SAIPAN Actual: City, State, Zip: FIREBAUGH, CA 93622 149 ft.

CENTRAL VALLEY RWQCB (REGION 5F) Lead Agency:

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601993682

Global Id: T0601993682 Latitude: 36.8525 -120.4471 Longitude:

Status: Completed - Case Closed

Status Date: 09/19/1996 Case Worker: JWH 5T10000005* RB Case Number: FRESNO COUNTY Local Agency: File Location: Not reported Local Case Number: FA0170677

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region:

Coordinate Source: * Historical Geocode - Street Match

Cuf Case: NO Quantity Released Gallons: 500 07/12/1985 Begin Date: Leak Reported Date: 07/12/1985 How Discovered: Tank Closure How Discovered Description: Not reported

Discharge Source: Tank

Discharge Cause: Physc / Mech Damage

Stop Method: Not reported Stop Description: Not reported No Further Action Date: 09/19/1996

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20) Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH SCHOOL DISTRICT (Continued)

S110654096

Disadvantaged Community: Not reported CA Enviroscreen 3 Score: 76-80% CA Enviroscreen 4 Score: 90-95% Military DOD Site: No Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Not reported Site History:

LUST:

Global Id: T0601993682

Contact Type: Local Agency Caseworker

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV Contact Name:

Organization Name: FRESNO COUNTY Address: 1221 Fulton Street

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601993682

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: **FRESNO**

jhannel@waterboards.ca.gov Email:

Phone Number: Not reported

LUST:

T0601993682 Global Id: Action Type: Other 07/12/1985 Date: Action: Leak Discovery

Global Id: T0601993682 Other Action Type: 07/12/1985 Date: Action: Leak Reported

LUST:

T0601993682 Global Id:

Open - Case Begin Date Status:

Status Date: 07/12/1985

Global Id: T0601993682

Status: Open - Site Assessment

08/18/1987 Status Date:

Global Id: T0601993682

Completed - Case Closed Status:

09/19/1996 Status Date:

CORTESE:

FIREBAUGH SCHOOL DISTRICT Name:

Address: Q ST & SAIPAN City, State, Zip: FIREBAUGH, CA 93622

Direction Distance

Elevation Site Database(s) **EPA ID Number**

FIREBAUGH SCHOOL DISTRICT (Continued)

S110654096

EDR ID Number

Region: CORTESE Envirostor Id: Not reported Global ID: T0601993682

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 Not reported Region 2: WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported File Name: Active Open

B12 FIREBAUGH SCHOOL DISTRICT

FIREBAUGH, CA 93622

UST FINDER RELEASE 1028957727

N/A

< 1/8 0.008 mi.

South

43 ft.

Site 3 of 5 in cluster B

Q ST & SAIPAN

UST FINDER RELEASE: Relative:

Higher Object ID: 53567 Facility ID: Not reported Actual: Lust ID: CAT0601993682 149 ft.

> FIREBAUGH SCHOOL DISTRICT Name:

Q ST & SAIPAN Address: City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: StreetInt Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 1011 Domestic Wells within 1500ft:

Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported Not reported SPA HUC12: Within WHPA: No

WHPA PWS Facility ID: Not reported Not reported WHPA Water Type: WHPA Facility Type: Not reported WHPA HUC12: Not reported Within 100yr Floodplain: No

Tribe: Not reported

EPA Region:

NFA Letter 1: Not reported Not reported NFA Letter 2: NFA Letter 3: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH SCHOOL DISTRICT (Continued)

1028957727

NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.44655

Y Coord: 36.8528000000001

Latitude: 36.8528 Longitude: -120.44655

B13 FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISCTRICT RCRA NonGen / NLR 1024799336 ssw 1666 SAIPAN AVE CAL000209223

FIREBAUGH, CA 93622 < 1/8

0.034 mi.

177 ft. Site 4 of 5 in cluster B

Relative: RCRA Listings:

Higher Date Form Received by Agency: 19991104

Handler Name: Firebaugh Las Deltas Unified School Disctrict Actual: 149 ft.

Handler Address: 1666 SAIPAN AVE

FIREBAUGH, CA 93622-2438 Handler City, State, Zip:

EPA ID: CAL000209223 Contact Name: GILBERT DE ARCOS Contact Address: 1734 SAIPAN AVE Contact City, State, Zip: FIREBAUGH, CA 93622

Contact Telephone: 559-659-1088 Contact Fax: 559-659-6633

ARUIZ@FLDUSD.ORG Contact Email: Contact Title: Not reported

EPA Region: 09

Not reported Land Type:

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

1976 MORRIS KYLE DR Mailing Address: Mailing City, State, Zip: FIREBAUGH, CA 93622-0000 Owner Name: Firebaugh Las Deltas School

Owner Type: Other

Operator Name: Gilbert De Arcos

Operator Type: Other Short-Term Generator Activity: No Importer Activity: Nο 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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: Ν

Direction Distance

Elevation Site Database(s) EPA ID Number

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISCTRICT (Continued)

1024799336

EDR ID Number

Sub-Part K Indicator:Not reported2018 GPRA Permit Baseline:Not on the Baseline2018 GPRA Renewals Baseline:Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: Nο Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A 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: 20180905 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/Operator Name: FIREBAUGH LAS DELTAS SCHOOL
Legal Status:
Other
Date Became Current:
Not reported
Date Ended Current:
Not reported

Owner/Operator Address: 1976 MORRIS KYLE DR
Owner/Operator City, State, Zip: FIREBAUGH, CA 93622-0000

Owner/Operator Telephone: 559-659-1476
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

Owner/Operator Name: GILBERT DE ARCOS

Legal Status: Other

Date Became Current: Not reported

Date Ended Current: Not reported

Owner/Operator Address: 1734 SAIPAN AVE

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-1088
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19991104

Handler Name: FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISCTRICT Federal Waste Generator Description: Not a generator, verified

State District Owner: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH LAS DELTAS UNIFIED SCHOOL DISCTRICT (Continued)

1024799336

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: 48541

NAICS Description: SCHOOL AND EMPLOYEE BUS TRANSPORTATION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FIREBAUGH UNIFIED SCHOOL DIST B14 CUPA Listings S104870848 N/A

SSW 1657 SAIPAN ST FIREBAUGH, CA 93622 < 1/8

0.035 mi.

184 ft. Site 5 of 5 in cluster B

CUPA FRESNO: Relative: Higher Name:

FIREBAUGH UNIFIED SCHOOL DIST Address: 1657 SAIPAN ST

Actual: City,State,Zip: FIREBAUGH, CA 93622 149 ft.

Region: **FRESNO** Cross Street: Q Facility ID: FA0170677 APM Number: 00802063T

Program Element: UST REMOVAL/CLOSURE W/5 TANKS

FIREBAUGH UNIFIED SCHOOL DIST Name:

Address: 1657 SAIPAN ST City,State,Zip: FIREBAUGH, CA 93622

Region: **FRESNO** Cross Street: Q

Facility ID: FA0170677 APM Number: 00802063T

Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

15 **COUNTRY CLEANERS EDR Hist Cleaner** 1019963394 SSE

1916 VASQUEZ DR N/A

< 1/8 FIREBAUGH, CA 93622 0.053 mi.

280 ft.

Relative: **EDR Hist Cleaner**

Higher

Year: Name: Type: Actual:

2004 **COUNTRY CLEANERS** Drycleaning Plants, Except Rugs, NEC 149 ft.

COUNTRY CLEANERS Drycleaning Plants, Except Rugs, NEC 2005

DOROTHY ATKINS 16 **RCRA NonGen / NLR** 1024770018 CAC002989917

SSE 1891 E. CARDELLA ST. < 1/8 FIREBAUGH, CA 93622

0.120 mi. 635 ft.

Relative: RCRA Listings:

Higher Date Form Received by Agency: 20181119 Handler Name: **Dorothy Atkins** Actual:

1891 E. CARDELLA ST. Handler Address: 148 ft.

Handler City, State, Zip: FIREBAUGH, CA 93622-2559

EPA ID: CAC002989917 Contact Name: DOROTHY ATKINS 1891 E. CARDELLA ST. Contact Address: Contact City, State, Zip: FIREBAUGH, CA 93622-2559

Contact Telephone: 559-978-4794 Contact Fax: Not reported

Contact Email: ROBERT@8884ABATEMENT.COM

Contact Title: Not reported EPA Region: 09

Land Type: Not reported

Federal Waste Generator Description: Not a generator, verified

Not reported Non-Notifier: Biennial Report Cycle: Not reported Accessibility: Not reported Handler Activities Active Site Indicator: State District Owner: Not reported State District: Not reported

Mailing Address: 1891 E. CARDELLA ST. Mailing City, State, Zip: FIREBAUGH, CA 93622-2559

Owner Name: **Dorothy Atkins** Owner Type: Other

Operator Name: Dorothy Atkins

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:** Nο Off-Site Waste Receipt: No

Universal Waste Indicator: Yes Universal Waste Destination Facility: Yes Federal Universal Waste: No Active Site State-Reg Handler:

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

DOROTHY ATKINS (Continued)

1024770018

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: Ν

Sub-Part K Indicator: Not reported 2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: No Subject to Corrective Action Universe: No Non-TSDFs Where RCRA CA has Been Imposed 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 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

Not reported

Financial Assurance Required: Handler Date of Last Change: 20181220 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: Nο

Handler - Owner Operator:

Owner/Operator Indicator: Operator

Owner/Operator Name: DOROTHY ATKINS

Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported

1891 E. CARDELLA ST. Owner/Operator Address: Owner/Operator City, State, Zip: FIREBAUGH, CA 93622-2559

Owner/Operator Telephone: 559-978-4794 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

Owner/Operator Name: DOROTHY ATKINS

Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported

Owner/Operator Address: 1891 E. CARDELLA ST. Owner/Operator City, State, Zip: FIREBAUGH, CA 93622-2559

Owner/Operator Telephone: 559-978-4794 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

20181119 Receive Date:

Handler Name: DOROTHY ATKINS

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

DOROTHY ATKINS (Continued) 1024770018

Federal Waste Generator Description: Not a generator, verified

Not reported State District Owner:

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: 56299

NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

No Evaluations Found Evaluations:

17 **JEFFREY LOUIE RCRA NonGen / NLR** 1026482260 CAC003088295

South 2015 LANDUCCI DR 1/8-1/4 FIREBAUGH, CA 93622

0.132 mi. 695 ft.

Relative: RCRA Listings:

Date Form Received by Agency: Lower 20201014 Handler Name: Jeffrey Louie Actual:

2015 LANDUCCI DR Handler Address: 146 ft.

Handler City, State, Zip: FIREBAUGH, CA 93622 EPA ID: CAC003088295 Contact Name: JEFFREY LOUIE 2015 LANDUCCI DR Contact Address:

Contact City, State, Zip: FIREBAUGH, CA 93622 Contact Telephone: 559-284-4627 Contact Fax: Not reported Contact Email: LIZE@PWSEI.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: 2015 LANDUCCI DR Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: Jeffrey Louie Owner Type: Other Operator Name: Jeffrey Louie Operator Type: Other

Map ID MAP FINDINGS
Direction

Distance Elevation Site

on Site Database(s) EPA ID Number

JEFFREY LOUIE (Continued)

1026482260

EDR ID Number

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: Nο **Underground Injection Control:** No Off-Site Waste Receipt: No Universal Waste Indicator: Nο Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: N

Sub-Part K Indicator:

2018 GPRA Permit Baseline:

2018 GPRA Renewals Baseline:

Not on the Baseline

Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed 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 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:
Handler Date of Last Change:
Recognized Trader-Importer:
No
Recognized Trader-Exporter:
No
Importer of Spent Lead Acid Batteries:
No
No
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: JEFFREY LOUIE

Legal Status: Other

Date Became Current: Not reported

Date Ended Current: Not reported

Owner/Operator Address: 2015 LANDUC

Owner/Operator Address:2015 LANDUCCI DROwner/Operator City, State, Zip:FIREBAUGH, CA 93622Owner/Operator Telephone:559-284-4627

Owner/Operator Telephone: 559-284-4627
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

Owner/Operator Name: JEFFREY LOUIE

Map ID MAP FINDINGS Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

JEFFREY LOUIE (Continued) 1026482260

Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported

Owner/Operator Address: 2015 LANDUCCI DR Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-284-4627 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20201014

Handler Name: JEFFREY LOUIE

Federal Waste Generator Description: Not a generator, verified

Not reported State District Owner:

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: 56299

NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

No Evaluations Found Evaluations:

MARIA ROCIO MORALES DE GAMINO RCRA NonGen / NLR 1026801965 18

ESE 1950 RIVER LANE 1/8-1/4 FIREBAUGH, CA 93622

0.161 mi. 850 ft.

Relative: RCRA Listings:

Lower Date Form Received by Agency: 20210408

Handler Name: Maria Rocio Morales De Gamino Actual: Handler Address: 1950 RIVER LANE 147 ft. Handler City, State, Zip: FIREBAUGH, CA 93622

EPA ID: CAC003113941

Contact Name: MARIA ROCIO MORALES DE GAMINO Contact Address: 1950 RIVER LANE

Contact City, State, Zip: FIREBAUGH, CA 93622

Contact Telephone: 559-250-1253 Contact Fax: Not reported

Contact Email: GAMAYER20@GMAIL.COM

Contact Title: Not reported

EPA Region: 09

Land Type: Not reported CAC003113941

Map ID MAP FINDINGS
Direction

Distance
Elevation Site Database(s)

MARIA ROCIO MORALES DE GAMINO (Continued)

1026801965

EDR ID Number

EPA ID Number

Federal Waste Generator Description: Not a generator, verified

Non-Notifier: Not reported Biennial Report Cycle: Not reported Not reported Accessibility: Active Site Indicator: Not reported State District Owner: Not reported State District: Not reported Mailing Address: 1950 RIVER LANE Mailing City, State, Zip: FIREBAUGH, CA 93622 Owner Name: Maria Rocio Morales De Gamino

Owner Type: Other

Operator Name: Maria Rocio Morales De Gamino

Operator Type: Other Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: Nο 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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: N

Sub-Part K Indicator:

2018 GPRA Permit Baseline:

Not reported

Not on the Baseline

2018 GPRA Renewals Baseline:

Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed 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 Significant Non-Complier Universe: Nο Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No

Financial Assurance Required:
Handler Date of Last Change:
Recognized Trader-Importer:
No

Recognized Trader-Exporter:

Importer of Spent Lead Acid Batteries:

Exporter of Spent Lead Acid Batteries:

No Recycler Activity Without Storage:

No Manifest Broker:

Sub-Part P Indicator:

No

Handler - Owner Operator:

Owner/Operator Indicator: Owner

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MARIA ROCIO MORALES DE GAMINO (Continued)

1026801965

Owner/Operator Name: MARIA ROCIO MORALES DE GAMINO Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported 1950 RIVER LANE Owner/Operator Address: Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-250-1253 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator Owner/Operator Name: MARIA ROCIO MORALES DE GAMINO Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported Owner/Operator Address: 1950 RIVER LANE Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-250-1253 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20210408 Handler Name: MARIA ROCIO MORALES DE GAMINO

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: No Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code:

ALL OTHER WASTE MANAGEMENT SERVICES NAICS Description:

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Direction Distance

Elevation Site Database(s) EPA ID Number

19 KRISTEN FENNELL RCRA NonGen / NLR 1026483332
West 1545 O STREET CAC003089402

1/8-1/4 FIREBAUGH, CA 93622

Mailing City, State, Zip:

0.164 mi. 865 ft.

Relative: RCRA Listings:

 Higher
 Date Form Received by Agency:
 20201021

 Actual:
 Handler Name:
 Kristen Fennell

150 ft. Handler Address: 1545 O STREET

Handler City, State, Zip:

EPA ID:

CAC003089402

Contact Name:

KRISTEN FENNELL

Contact Address:

1545 O STREET

Contact City,State,Zip: FIREBAUGH, CA 93622
Contact Telephone: 559-408-6928
Contact Fax: Not reported

Contact Email: CASSIEMCGRATH@ALLIANCE-ENVIRO.COM

FIREBAUGH, CA 93622

Contact Title: Not reported EPA Region: 09

Land Type: Not reported

Federal Waste Generator Description: Not a generator, verified

Non-Notifier:

Biennial Report Cycle:

Accessibility:

Active Site Indicator:

State District Owner:

State District:

Mot reported

Not reported

Not reported

Not reported

Not reported

Not reported

State District:

Not reported

1545 O STREET

Owner Name: Kristen Fennell

Owner Type: Other

Operator Name: Kristen Fennell

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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator:

Sub-Part K Indicator:Not reported2018 GPRA Permit Baseline:Not on the Baseline2018 GPRA Renewals Baseline:Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No

EDR ID Number

Distance Elevation

Site Database(s) EPA ID Number

No

KRISTEN FENNELL (Continued)

1026483332

EDR ID Number

Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
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: 20201026 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

Handler - Owner Operator:

Sub-Part P Indicator:

Owner/Operator Indicator: Operator

Owner/Operator Name: KRISTEN FENNELL

Legal Status: Other

Date Became Current: Not reported

Date Ended Current: Not reported

Owner/Operator Address: 1545 O STREET

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-408-6928
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

Owner/Operator Name: KRISTEN FENNELL

Legal Status:OtherDate Became Current:Not reportedDate Ended Current:Not reportedOwner/Operator Address:1545 O STREETOwner/Operator City, State, Zip:FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-408-6928
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20201021

Handler Name: KRISTEN FENNELL

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

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

KRISTEN FENNELL (Continued)

1026483332

N/A

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

C20 ELROD FARMING HIST UST U001588127

South 2070 ENRICO AVE 1/8-1/4 FIREBAUGH, CA 93622

0.192 mi.

1016 ft. Site 1 of 2 in cluster C

Relative: HIST UST:

 Lower
 Name:
 ELROD FARMING

 Actual:
 Address:
 2070 ENRICO AVE

 145 ft.
 City,State,Zip:
 FIREBAUGH, CA 93622

File Number: Not reported URL: Not reported Region: STATE Facility ID: 00000053042 Facility Type: Other Other Type: **FARMING GLENN ELROD** Contact Name: Telephone: 2096593613 Owner Name: **ELROD FARMING** Owner Address: 2070 ENRICO ST. FIREBAUGH, CA 93622 Owner City, St, Zip:

Total Tanks: 0001

Tank Num: 001 Container Num: 1

Year Installed: Not reported Tank Capacity: 00000550 Tank Used for: PRODUCT Type of Fuel: 06

Container Construction Thickness: Not reported Leak Detection: Stock Inventor

 C21
 ELROD FARMING
 SWEEPS UST
 \$106925812

 South
 2070 ENRICO ST
 HIST UST
 N/A

1/8-1/4 FIREBAUGH, CA 93622

0.192 mi.

1016 ft. Site 2 of 2 in cluster C

Relative: SWEEPS UST:

LowerName:ELROD FARMINGActual:Address:2070 ENRICO ST145 ft.City:FIREBAUGH

Status: Active Comp Number: 53042

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ELROD FARMING (Continued)

S106925812

Number:

Board Of Equalization: Not reported Referral Date: 07-01-85 Action Date: Not reported Created Date: 02-29-88

Owner Tank Id:

SWRCB Tank Id: 10-000-053042-000001

Tank Status: Α Capacity: 550 Active Date: 07-01-85 M.V. FUEL Tank Use:

STG:

UNKNOWN Content:

Number Of Tanks:

HIST UST:

ELROD FARMING Name: Address: 2070 ENRICO ST City, State, Zip: FIREBAUGH, CA 93622

File Number: 00023f0d

URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00023f0d.pdf

Region: Not reported Facility ID: Not reported Facility Type: Not reported Other Type: Not reported Contact Name: Not reported Not reported Telephone: Owner Name: Not reported Owner Address: Not reported Owner City, St, Zip: Not reported Total Tanks: Not reported

Tank Num: Not reported Not reported Container Num: Not reported Year Installed: 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:

PG & E FIREBAUGH SUBSTATI LUST S102435169

D22 **WSW 1459 SAIPAN HIST CORTESE**

FIREBAUGH, CA 93622 1/8-1/4 0.194 mi.

Site 1 of 7 in cluster D 1023 ft.

LUST REG 5: Relative:

Higher PG & E FIREBAUGH SUBSTATION Name:

Address: 1459 SAIPAN Actual: City: **FIREBAUGH** 151 ft.

Region:

Status: Case Closed Case Number: 5T10000565

Drinking Water Aquifer affected Case Type:

N/A

Cortese

CERS

Direction Distance

Elevation Site Database(s) EPA ID Number

PG & E FIREBAUGH SUBSTATI (Continued)

S102435169

EDR ID Number

Substance: GASOLINE
Staff Initials: JWH
Lead Agency: Regional
Program: LUST
MTBE Code: 3

CORTESE:

Name: PG & E FIREBAUGH SUBSTATION

Address: 1459 SAIPAN

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900548

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 Not reported Owner: Enf Type: Not reported Swat R: Not reported Flag: active Order No: Not reported Not reported Waste Discharge System No: Effective Date: Not reported Not reported Region 2: WID Id: 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: PG & E FIREBAUGH SUBSTATI

edr_fadd1: 1459 SAIPAN

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE
Facility County Code: 10
Reg By: LTNKA
Reg Id: 5T10000565

CERS:

Name: PG & E FIREBAUGH SUBSTATION

Address: 1459 SAIPAN

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 751873 CERS ID: 70601900548

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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PG & E FIREBAUGH SUBSTATI (Continued)

S102435169

Affiliation Country: Not reported Not reported Affiliation Zip:

Affiliation Phone:

Affiliation Type Desc: Regional Board Caseworker

JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F) **Entity Name:**

Entity Title: Not reported Affiliation Address: 1685 É STREET Affiliation City: **FRESNO** Affiliation State: CA

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

D23 **PG & E FIREBAUGH SUBSTATION** 1029091082 **UST FINDER RELEASE** N/A

WSW 1459 SAIPAN

FIREBAUGH, CA 93622 1/8-1/4

0.194 mi.

1023 ft. Site 2 of 7 in cluster D

Relative: **UST FINDER RELEASE:**

Higher Object ID: 53545 Facility ID: Not reported Actual: Lust ID: CAT0601900548 151 ft.

PG & E FIREBAUGH SUBSTATION Name:

Address: 1459 SAIPAN

City, State, Zip: FIREBAUGH, CA 93622

Address Match Type: StreetAddress Reported Date: Not reported Status: No Further Action Substance: Not reported 1297

Population within 1500ft:

Domestic Wells within 1500ft:

Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID: Not reported Not reported SPA Water Type: SPA Facility Type: Not reported SPA HUC12: Not reported Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 GW - Ground water WHPA Water Type:

WL - Well WHPA Facility Type: WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Not reported Tribe:

EPA Region: NFA Letter 1:

Not reported NFA Letter 2: Not reported NFA Letter 3: Not reported Not reported NFA Letter 4: Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.45034 Y Coord: 36.8521700000001

Latitude: 36.85217

Longitude: -120.450339999999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

D24 FIREBAUGH SERVICE CENTER **SWEEPS UST** U001588130 **HIST UST** N/A

WSW 1459 SAIPAN AVE 1/8-1/4 FIREBAUGH, CA 93622

0.194 mi.

1023 ft. Site 3 of 7 in cluster D

SWEEPS UST: Relative:

Higher FIREBAUGH SERVICE CENTER Name:

1459 SAIPAN AVE Address: Actual: **FIREBAUGH** City: 151 ft.

Status: Active Comp Number: 28258 Number:

Board Of Equalization: Not reported Referral Date: 07-01-85 Action Date: Not reported 02-29-88 Created Date: Owner Tank Id: 25KG01

10-000-028258-000001 SWRCB Tank Id:

Tank Status: Capacity: 500 07-01-85 Active Date: M.V. FUEL Tank Use:

STG:

Content: **REG UNLEADED**

Number Of Tanks:

HIST UST:

File Number:

Name: FIREBAUGH SERVICE CENTER

Not reported

Address: 1459 SAIPAN AVE City,State,Zip: FIREBAUGH, CA 93622

URL: Not reported Region: STATE Facility ID: 00000028258 Facility Type: Other Other Type: PUBLIC UTILITY

Contact Name: Not reported 2092680441 Telephone:

Owner Name: MRS. YOLANDA ROGGERO

1463 P STREET Owner Address: Owner City,St,Zip: FIREBAUGH, CA 93622

Total Tanks: 0001

Tank Num: 001 Container Num: 25KG01 Not reported Year Installed: Tank Capacity: 00000500 Tank Used for: **PRODUCT UNLEADED** Type of Fuel: Container Construction Thickness: Not reported Stock Inventor Leak Detection:

Direction Distance

Elevation Site Database(s) EPA ID Number

D25 PG&E FIREBAUGH SUBSTATION LUST \$106176005

WSW 1459 SAIPAN CUPA Listings N/A 1/8-1/4 FIREBAUGH, CA 93622

1/8-1/4 0.194 mi.

1023 ft. Site 4 of 7 in cluster D

Relative: LUST:

Higher Name: PG & E FIREBAUGH SUBSTATION

Actual: Address: 1459 SAIPAN

151 ft. City,State,Zip: FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900548

Global Id: T0601900548
Latitude: 36.852338
Longitude: -120.450081

Status: Completed - Case Closed

Status Date: 09/20/2000
Case Worker: JWH
RB Case Number: 5T10000565
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: FA0270806

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region: 9

Coordinate Source: Google Geocode

Cuf Case: YES

Quantity Released Gallons: Not reported Begin Date: 05/24/1995 Leak Reported Date: 06/30/1995 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Not reported Stop Description: No Further Action Date: 09/20/2000

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community:
CA Enviroscreen 3 Score:
CA Enviroscreen 4 Score:
Military DOD Site:
No Not reported
76-80%
90-95%
No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

Global Id: T0601900548

Contact Type: Local Agency Caseworker

Contact Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV

Organization Name: FRESNO COUNTY Address: FRESNO COUNTY 1221 Fulton Street

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900548

Contact Type: Regional Board Caseworker - Primary Caseworker

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PG&E FIREBAUGH SUBSTATION (Continued)

S106176005

Contact Name: JEFFREY HANNEL

CENTRAL VALLEY RWQCB (REGION 5F) Organization Name:

Address: 1685 E STREET City: **FRESNO**

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

Global Id: T0601900548 Action Type: Other Date: 06/22/1995 Action: Leak Discovery

T0601900548 Global Id: Action Type: Other Date: 06/30/1995 Action: Leak Reported

Global Id: T0601900548 **ENFORCEMENT** Action Type: 09/20/2000 Date:

Action: Closure/No Further Action Letter

Global Id: T0601900548 Action Type: Other 05/24/1995 Date: Action: Leak Stopped

LUST:

Global Id: T0601900548

Status: Open - Case Begin Date

Status Date: 05/24/1995

T0601900548 Global Id:

Open - Site Assessment Status:

Status Date: 05/24/1995

Global Id: T0601900548 Open - Remediation Status:

08/31/1999 Status Date:

Global Id: T0601900548 Status: Open - Remediation

12/30/1999 Status Date:

Global Id: T0601900548

Status: Completed - Case Closed

09/20/2000 Status Date:

CUPA FRESNO:

PG&E FIREBAUGH SUBSTATION Name:

1459 SAIPAN Address:

City,State,Zip: FIREBAUGH, CA 93622

Region: **FRESNO** Cross Street: Not reported

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

PG&E FIREBAUGH SUBSTATION (Continued)

S106176005

Facility ID: FA0270806 APM Number: Not reported

Program Element: UST REMOVAL/CLOSURE W/2 TANKS

Name: PG&E FIREBAUGH SUBSTATION

Address: 1459 SAIPAN

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0270806
APM Number: Not reported

Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

D26 EPPLER & EPPLER /EPPLER TRUCK SERVICE RCRA NonGen / NLR

WSW 1459 SAIPAN AVE

LR 1024816283 CAL000317149

1/8-1/4 FIREBAUGH, CA 93622 0.194 mi.

1023 ft. Site 5 of 7 in cluster D

Relative: RCRA Listings:

Higher Date Form Received by Agency: 20070306

Actual: Handler Name: Eppler & Eppler /Eppler Truck Service

151 ft. Handler Address: 1459 SAIPAN AVE Handler City, State, Zip: FIREBAUGH, CA 93622

FIREBAUGH, CA 93622
EPA ID: CAL000317149
Contact Name: DAVID EPPLER
Contact Address: 5748 AVE 7 1/2
Contact City, State, Zip: FIREBAUGH, CA 93622

 Contact Telephone:
 559-659-5911

 Contact Fax:
 559-659-5912

Contact Email: EPPLERTRUCKSERVICE@YAHOO.COM

Contact Title: Not reported EPA Region: 09

Land Type: Not reported

Federal Waste Generator Description: Not a generator, verified

Non-Notifier:

Biennial Report Cycle:
Accessibility:
Active Site Indicator:
State District Owner:
State District:
Mot reported
Not reported
PO BOX 67

Mailing City, State, Zip: FIREBAUGH, CA 93622-0000

Owner Name:
Owner Type:
Other
Operator Name:
Operator Type:
Other
Operator Type:
Other
Operator Type:
Other
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: Nο 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

Distance

Elevation Site Database(s) EPA ID Number

Ν

EPPLER & EPPLER /EPPLER TRUCK SERVICE (Continued)

1024816283

EDR ID Number

Universal Waste Destination Facility: Yes
Federal Universal Waste: No
Active Site State-Reg Handler: ---

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator:

Sub-Part K Indicator:

2018 GPRA Permit Baseline:

Not on the Baseline

2018 GPRA Renewals Baseline:

Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed 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 Significant Non-Complier Universe: Nο Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No

Financial Assurance Required:
Handler Date of Last Change:
Recognized Trader-Importer:
No
Recognized Trader-Exporter:
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: DAVID EPPLER

Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1405 REBECCHI ST

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622-2560

Owner/Operator Telephone: 559-659-5822
Owner/Operator Telephone Ext: Not reported

Owner/Operator Feiepnone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

Owner/Operator Name: DAVID EPPLER

Legal Status: Other

Date Became Current: Not reported

Date Ended Current: Not reported

Owner/Operator Address: 5748 AVE 7 1/2

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-659-5911
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Direction Distance

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

EPPLER & EPPLER /EPPLER TRUCK SERVICE (Continued)

1024816283

Historic Generators:

Receive Date: 20070306
Handler Name: EPPLER & EPPLER /EPPLER TRUCK SERVICE
Federal Waste Generator Description: Not a generator, verified

State District Owner: Not reported

Large Quantity Handler of Universal Waste:

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: 48849

NAICS Description: OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

D27 EPPLER & EPPLER INC/DBA EPPLER TOWING & TRANSPORT HIST UST S113146600 WSW 1459 SAIPAN AVE HWTS N/A 1/8-1/4 FIREBAUGH, CA 93622 HAZNET

0.194 mi.

1023 ft. Site 6 of 7 in cluster D

Relative: HIST UST:

Higher Name: FIREBAUGH SERVICE CENTER

Actual:Address:1459 SAIPAN AVENUE151 ft.City,State,Zip:FIREBAUGH, CA 93622

File Number: 00024d7e

URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00024d7e.pdf
Region: Not reported

Facility ID: Not reported Facility Type: Not reported Other Type: Not reported Not reported Contact Name: 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 Not reported Container Num: Not reported Year Installed: Tank Capacity: Not reported Tank Used for: Not reported Type of Fuel: Not reported Container Construction Thickness: Not reported Leak Detection: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EPPLER & EPPLER INC/DBA EPPLER TOWING & TRANSPORT (Continued)

S113146600

Click here for Geo Tracker PDF:

HWTS:

Name: EPPLER & EPPLER /EPPLER TRUCK SERVICE

Address: 1459 SAIPAN AVE Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 93622

EPA ID: CAL000317149 Inactive Date: Not reported Create Date: 03/06/2007 Last Act Date: Not reported Mailing Name: Not reported Mailing Address: PO BOX 67 Mailing Address 2: Not reported

Mailing City, State, Zip: FIREBAUGH, CA 936220000

Owner Name: **DAVID EPPLER** 1405 REBECCHI ST Owner Address:

Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 936222560

Owner Phone: Not reported Owner Fax: Not reported DAVID EPPLER Contact Name: Contact Address: 5748 AVE 7 1/2 Not reported Contact Address 2:

FIREBAUGH, CA 93622 City,State,Zip:

Contact Phone: Not reported Contact Fax: Not reported Facility Status: Active **PERMANENT** Facility Type: Category: STATE Latitude: 36.852004 Longitude: -120.450813

NAICS:

EPA ID: CAL000317149

Create Date: 2011-04-05 10:18:11.997

NAICS Code: 48849

NAICS Description: Other Support Activities for Road Transportation

Issued EPA ID Date: 2007-03-06 09:50:28.05000

Not reported Inactive Date:

EPPLER & EPPLER /EPPLER TRUCK SERVICE Facility Name:

Facility Address: 1459 SAIPAN AVE Facility Address 2: Not reported Facility City: **FIREBAUGH** Facility County: Not reported Facility State: CA

Facility Zip: 93622

HAZNET:

Name: EPPLER & EPPLER /EPPLER TRUCK SERVICE

Address: 1459 SAIPAN AVE Not reported Address 2:

City,State,Zip: FIREBAUGH, CA 936220000

DAVID EPPLER Contact: Telephone: 5596593939 Mailing Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

EPPLER & EPPLER INC/DBA EPPLER TOWING & TRANSPORT (Continued)

S113146600

EDR ID Number

Mailing Address: PO BOX 67

Year: 2018

 Gepaid:
 CAL000317149

 TSD EPA ID:
 AZR000515924

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.10000

Year: 2008

 Gepaid:
 CAL000317149

 TSD EPA ID:
 CAT080013352

CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid

Regeneration, Organics Recovery Ect

Tons: 1.4595

Detail Two:

 Year:
 2018

 EM Manifest ID:
 139652

 Shipment Date:
 10/17/2018

 Receipt Date:
 10/24/2018

 Manifest Number:
 019154728JJK

 Generator EPA ID:
 CAL000317149

Name: EPPLER & EPPLER /EPPLER TRUCK SERVICE

 Address:
 1459 SAIPAN AVE

 Address 2:
 Not reported

 City:
 FIREBAUGH

 Zip:
 93622

 Telephone:
 800-424-9300

 Contact:
 Not reported

Contact. Telephone: 559-659-5911
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924

TSDF Name: YUMA YES WASTE TRANSFER FACILITY

TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:

 Year:
 2018

 EM Manifest ID:
 139652

 Generator EPA ID:
 CAL000317149

 Shipment Date:
 2018-10-17

 Manifest Number:
 019154728JJK

 Line Number:
 1

 Method Code:
 H141

 Quantity Tons:
 0.10000

 Quantity Waste:
 200.000000

Quantity Unit: F

Direction Distance

Elevation Site Database(s) EPA ID Number

EPPLER & EPPLER INC/DBA EPPLER TOWING & TRANSPORT (Continued)

S113146600

EDR ID Number

Number of Containers:

Type of Container: Metal drums, barrels, kegs

Quantity Type:PoundsState Code:352

Additional Info:

Year: 2008

Gen EPA ID: CAL000317149

Shipment Date: 20080610

Creation Date: 8/11/2008 18:30:08

 Receipt Date:
 20080623

 Manifest ID:
 000347397GBF

 Trans EPA ID:
 CAL000102751

Trans Name: SAN JOAQUIN FILTER RECYCLING

Trans 2 EPA ID: CAD028277036

Trans 2 Name: ASBURY ENVIRONMENTAL SERVICE

TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.

RCRA Code: D001

Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid

Regeneration, Organics Recovery Ect

Quantity Tons: 0.417
Waste Quantity: 100
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

Shipment Date: 20080206

 Creation Date:
 4/22/2008 18:30:23

 Receipt Date:
 20080220

 Manifest ID:
 000347488GBF

 Trans EPA ID:
 CAL000102751

Trans Name: SAN JOAQUIN FILTER RECYCLING

Trans 2 EPA ID: CAD028277036

Trans 2 Name: ASBURY ENVIRONMENTAL SERVICE

TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.

RCRA Code: Not reported

Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid

Regeneration, Organics Recovery Ect

Quantity Tons:1.0425Waste Quantity:250Quantity Unit:G

Additional Code 1: Not reported Additional Code 2: Not reported Additional Code 3: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EPPLER & EPPLER INC/DBA EPPLER TOWING & TRANSPORT (Continued)

S113146600

Additional Code 4: Not reported Additional Code 5: Not reported

ROSIE RAMIREZ 28 RCRA NonGen / NLR 1026467966 NW 1421 R ST CAC003073357

1/8-1/4 FIREBAUGH, CA 93622

0.222 mi. 1173 ft.

Relative: RCRA Listings:

Higher Date Form Received by Agency: 20200702 Handler Name: Rosie Ramirez Actual: 148 ft. Handler Address: 1421 R ST

Handler City, State, Zip: FIREBAUGH, CA 93622 EPA ID: CAC003073357 Contact Name: **ROSIE RAMIREZ** Contact Address: 1421 R ST

Contact City, State, Zip: FIREBAUGH, CA 93622 Contact Telephone: 559-288-8423 Contact Fax: Not reported Contact Email: LIZE@PWSEI.COM Not reported

Contact Title: EPA Region: 09

Land Type: Not reported

Not a generator, verified Federal Waste Generator Description:

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: 1421 R ST

Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: Rosie Ramirez Owner Type: Other

Operator Name: Rosie Ramirez

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: Nο 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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator:

Sub-Part K Indicator: Not reported 2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: No Subject to Corrective Action Universe: No

MAP FINDINGS Map ID Direction

Distance

Elevation Site Database(s) **EPA ID Number**

ROSIE RAMIREZ (Continued)

Non-TSDFs Where RCRA CA has Been Imposed Universe: No

No NCAPS ranking Corrective Action Priority Ranking:

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A 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: 20200710

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: Nο Manifest Broker: No Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Operator

Owner/Operator Name: ROSIE RAMIREZ

Legal Status: Other Date Became Current: Not reported Not reported Date Ended Current: Owner/Operator Address: 1421 R ST

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

559-288-8423 Owner/Operator Telephone: Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

Owner/Operator Name: ROSIE RAMIREZ

Legal Status: Other Date Became Current: Not reported **Date Ended Current:** Not reported Owner/Operator Address: 1421 R ST

Owner/Operator City, State, Zip: FIREBAUGH, CA 93622

Owner/Operator Telephone: 559-288-8423 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20200702

Handler Name: ROSIE RAMIREZ

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 **EDR ID Number**

1026467966

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ROSIE RAMIREZ (Continued) 1026467966

Current Record: Yes Not reported Non Storage Recycler Activity: 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:

No Violations Found Violations:

Evaluation Action Summary:

Evaluations: No Evaluations Found

S113705881 D29 LONG VALLEY HAY COMPANY, INC **CUPA Listings**

wsw **1433 SAIPAN AVE** N/A

1/8-1/4 FIREBAUGH, CA 93622

0.230 mi.

1217 ft. Site 7 of 7 in cluster D CUPA FRESNO: Relative:

Higher LONG VALLEY HAY COMPANY, INC Name:

Address: 1433 SAIPAN AVE Actual: City,State,Zip: FIREBAUGH, CA 93622 151 ft.

Region: **FRESNO** Cross Street: Not reported FA0283041 Facility ID: APM Number: 00816017

Program Element: WASTE TIRE FACILITY

30 **RIOS RECYCLING SWRCY** S123490995

wsw 1639 N ST N/A

FIREBAUGH, CA 93622 1/8-1/4

Address:

0.236 mi. 1248 ft.

Relative: SWRCY: Higher Name: RIOS RECYCLING 1639 N ST

Actual: FIREBAUGH, CA 93622 City,State,Zip: 152 ft.

Not reported Reg Id: RC279291.001 Cert Id: Mailing Address: Po Box 1344

Mailing City: Mendota Mailing State: CA Mailing Zip Code: 93640 Website: Not reported Not reported Email: Phone Number: (559) 647-4449

Rural:

Operation Begin Date: 01/26/2019 Aluminium: Not reported Glass: Not reported Plastic: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

RIOS RECYCLING (Continued) S123490995

Bimetal: Not reported

Mon - Wed 9:00 am - 5:00 pm; Thr Closed; Fri - Sun 9:00 am - 5:00 pm Hours of Operation:

Organization ID: Not reported Organization Name: Rios Recycling

E31 FIREBAUGH EQUIPMENT CO RCRA-SQG 1000200424 SWEEPS UST West 1529 N ST CAD981676315

1/8-1/4 FIREBAUGH, CA 93622 **HIST UST**

0.237 mi. **FINDS ECHO** 1254 ft. Site 1 of 4 in cluster E **HWTS**

Relative: **HAZNET** Higher

RCRA Listings: Actual: Date Form Received by Agency: 151 ft. 19861003

Handler Name: Firebaugh Equipment Co Handler Address: 1529 N ST

> Handler City, State, Zip: FIREBAUGH, CA 93622

> EPA ID: CAD981676315

Contact Name: **ENVIRONMENTAL MANAGER**

Contact Address: 1529 N ST

Contact City, State, Zip: FIREBAUGH, CA 93622

Contact Telephone: 209-659-2091 Contact Fax: Not reported Contact Email: Not reported Contact Title: Not reported EPA Region: 09

Land Type: Other

Federal Waste Generator Description: **Small Quantity Generator**

Non-Notifier: Not reported Biennial Report Cycle: Not reported Accessibility: Not reported Handler Activities Active Site Indicator:

State District Owner: Ca State District: 5

Mailing Address: **PO BOX 157**

Mailing City, State, Zip: FIREBAUGH, CA 93622

Owner Name: Clem Matthews Owner Type: Private Operator Name: Not Required Operator Type: Private Short-Term Generator Activity: No Importer Activity: No

Mixed Waste Generator: Nο 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: Nο Federal Universal Waste: No

Active Site State-Reg Handler: Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: NN

Sub-Part K Indicator: Not reported

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: No Subject to Corrective Action Universe: No Non-TSDFs Where RCRA CA has Been Imposed Universe: No

No NCAPS ranking Corrective Action Priority Ranking:

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A Significant Non-Complier Universe: Nο 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: 20020627 Recognized Trader-Importer: Nο 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: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner

Owner/Operator Name: CLEM MATTHEWS

Legal Status: Private Date Became Current: Not reported Date Ended Current: Not reported Owner/Operator Address: **NOT REQUIRED**

NOT REQUIRED, ME 99999 Owner/Operator City, State, Zip:

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: 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

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

Historic Generators:

19861003 Receive Date:

FIREBAUGH EQUIPMENT CO Handler Name:

Federal Waste Generator Description: **Small Quantity Generator**

State District Owner: Large Quantity Handler of Universal Waste: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

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:

NAICS Description: FARM AND GARDEN MACHINERY AND EQUIPMENT WHOLESALERS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

SWEEPS UST:

Name: FIREBAUGH EQUIPMENT COMPANY

Address: 1529 N ST **FIREBAUGH** City: Status: Not reported Comp Number: 8777 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: 10-000-008777-000001

Not reported Tank Status: 1000 Capacity: Active Date: Not reported Tank Use: M.V. FUEL **PRODUCT** STG: Content: **DIESEL** Number Of Tanks: 2

Name: FIREBAUGH EQUIPMENT COMPANY

Address: 1529 N ST **FIREBAUGH** City: Not reported Status: Comp Number: 8777

Number: Not reported Board Of Equalization: Not reported Referral Date: Not reported Action Date: Not reported Created Date: Not reported Not reported Owner Tank Id:

SWRCB Tank Id: 10-000-008777-000002

Tank Status: Not reported

Capacity: 440

Active Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

Tank Use: OIL STG: WASTE WASTE OIL Content: Number Of Tanks: Not reported

HIST UST:

FIREBAUGH EQUIPMENT COMPANY Name:

1529 N ST Address:

City, State, Zip: FIREBAUGH, CA 93622

File Number: 00023ff4

URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00023ff4.pdf

Region: STATE Facility ID: 00000008777

Facility Type: Other

Other Type: FARM IMPL. DEALER Contact Name: CLEM MATTHEWS, JR.

Telephone: 2096592091

Owner Name: FIREBAUGH EQUIPMENT COMPANY

Owner Address: 1529 N ST.

Owner City, St, Zip: FIREBAUGH, CA 93622

Total Tanks: 0002

Tank Num: 001 D1976 Container Num: Year Installed: 1976 Tank Capacity: 00001000 Tank Used for: **PRODUCT** Type of Fuel: DIESEL Container Construction Thickness: 12

Leak Detection: Visual, Stock Inventor

Tank Num: 002 W.O. 1973 Container Num: Year Installed: 1973 Tank Capacity: 00000440 Tank Used for: WASTE Type of Fuel: WASTE OIL Container Construction Thickness: 3/16

Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

FINDS:

110002747118 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

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

Direction Distance

Elevation Site Database(s) EPA ID Number

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

EDR ID Number

ECHO:

Envid: 1000200424 Registry ID: 110002747118

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002747118

Name: FIREBAUGH EQUIPMENT CO

Address: 1529 N ST

City, State, Zip: FIREBAUGH, CA 93622

HWTS:

Name: FIREBAUGH EQUIPMENT CO

Address: 1529 N ST Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 93622

EPA ID: CAD981676315
Inactive Date: 06/30/2002
Create Date: 04/10/1987
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 1301 THOMAS ST

Mailing Address 2: Not reported

Mailing City, State, Zip: DOS PALOS, CA 936200000

Owner Name: JON WEST
Owner Address: 1529 N ST
Owner Address 2: Not reported

Owner City, State, Zip: FIREBAUGH, CA 936222414

Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: MONTE BOTTENS
Contact Address: 1529 N ST

Contact Address 2: Not reported

City, State, Zip: FIREBAUGH, CA 936222414

Contact Phone:

Contact Fax:

Not reported

Not reported

Facility Status:

Inactive

Facility Type:

PERMANENT

Category:

Latitude:

Longitude:

Not reported

Not reported

Solar Salas

All Salas

Not reported

Solar Salas

Not reported

Solar Salas

Not reported

Solar Salas

All Sa

NAICS:

EPA ID: CAD981676315 Create Date: 2002-03-14 16:36:26.000

NAICS Code: 2002-03-14-10

NAICS Description: Machinery, Equipment, and Supplies Wholesalers

 Issued EPA ID Date:
 1987-04-10 00:00:00

 Inactive Date:
 2002-06-30 10:17:35

Facility Name: FIREBAUGH EQUIPMENT CO

Facility Address: 1529 N ST
Facility Address 2: Not reported
Facility City: FIREBAUGH
Facility County: Not reported

Facility State: CA

Facility Zip: 936220000

HAZNET:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

Name: FIREBAUGH EQUIPMENT CO

Address: 1529 N ST Address 2: Not reported

FIREBAUGH, CA 936220000 City,State,Zip:

Contact: MONTE BOTTENS Telephone: 5596592091 Mailing Name: Not reported 1301 THOMAS ST Mailing Address:

Year: 2000

Gepaid: CAD981676315 TSD EPA ID: CAT080033681

CA Waste Code: 223 - Unspecified oil-containing waste

Disposal Method: D80 - Disposal, Land Fill

Tons: 0.25

1995 Year:

CAD981676315 Gepaid: TSD EPA ID: CAD980887418

221 - Waste oil and mixed oil CA Waste Code:

Disposal Method: R01 - Recycler

Tons: 0.38

Year: 1987

Gepaid: CAD981676315 TSD EPA ID: CAD066113465

CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)

Disposal Method: UNK -0.3501 Tons:

Additional Info:

Year: 2000

CAD981676315 Gen EPA ID:

20000111 Shipment Date: 4/4/2000 0:00:00 Creation Date: Receipt Date: 20000121 Manifest ID: 99772689 CAD028277036 Trans EPA ID: Trans Name: Not reported Trans 2 EPA ID: CAD044003556 Trans 2 Name: Not reported TSDF EPA ID: CAT080033681 Trans Name: Not reported TSDF Alt EPA ID: CAT080033681 TSDF Alt Name: Not reported

Waste Code Description: 223 - Unspecified oil-containing waste

RCRA Code: Not reported

D80 - Disposal, Land Fill Meth Code:

Quantity Tons: 0.25 Waste Quantity: 500 Quantity Unit:

Additional Code 1: Not reported Additional Code 2: Not reported Additional Code 3: Not reported Additional Code 4: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH EQUIPMENT CO (Continued)

1000200424

Additional Code 5: Not reported

Additional Info:

Year: 1995

Gen EPA ID: CAD981676315

Shipment Date: 19950323

Creation Date: 10/23/1995 0:00:00

Receipt Date: 19950323 Manifest ID: 92857083 Trans EPA ID: CAD980695761 Trans Name: Not reported Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD980887418 Trans Name: Not reported TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 221 - Waste oil and mixed oil

RCRA Code: Not reported Meth Code: R01 - Recycler

Quantity Tons: 0.38 Waste Quantity: 100 **Quantity Unit:** G

Additional Code 1: Not reported Additional Code 2: Not reported Not reported Additional Code 3: Additional Code 4: Not reported Additional Code 5: Not reported

E32 **ORCHARD MACHINERY CORPORATION**

1529 N ST STE B West 1/8-1/4 FIREBAUGH, CA 93622

0.237 mi. 1254 ft.

Site 2 of 4 in cluster E

CERS HAZ WASTE: Relative:

Higher ORCHARD MACHINERY CORPORATION Name:

Address: 1529 N ST STE B Actual: City,State,Zip: FIREBAUGH, CA 93622 151 ft.

Site ID: 140232

CERS ID: 10453858

CERS Description: Hazardous Waste Generator

HWTS:

ORCHARD MACHINERY CORPORATION Name:

Address: 1529 N ST STE B Address 2: Not reported

City,State,Zip: FIREBAUGH, CA 93622

EPA ID: CAL000386334 Inactive Date: Not reported Create Date: 06/18/2013 Last Act Date: Not reported Mailing Name: Not reported

2700 COLUSA HWY Mailing Address:

Mailing Address 2: Not reported

Mailing City, State, Zip: YUBA CITY, CA 95993 CERS HAZ WASTE S118233386

N/A

HWTS

CERS

HAZNET

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Owner Name: **DONALD MAYO** Owner Address: 2700 COLUSA HWY

Owner Address 2: Not reported

Owner City, State, Zip: YUBA CITY, CA 959930000

Owner Phone: Not reported Owner Fax: Not reported Contact Name: CLINT HARRIS 2700 COLUSA HWY Contact Address: Contact Address 2: Not reported

City, State, Zip: YUBA CITY, CA 95993

Contact Phone: Not reported Contact Fax: Not reported Facility Status: Active Facility Type: **PERMANENT** Category: STATE 36.85385 Latitude: Longitude: -120.45248

NAICS:

EPA ID: CAL000386334

2014-05-14 10:48:34.173 Create Date:

NAICS Code: 333111

Farm Machinery and Equipment Manufacturing NAICS Description:

Issued EPA ID Date: 2013-06-18 14:53:18.41300

Not reported Inactive Date:

Facility Name: ORCHARD MACHINERY CORPORATION

Facility Address: 1529 N ST STE B Facility Address 2: Not reported Facility City: **FIREBAUGH** Facility County: Not reported

Facility State: CA

Facility Zip: 936222414

EPA ID: CAL000386334

Create Date: 2013-06-18 14:53:18.413

NAICS Code: 333922

NAICS Description: Conveyor and Conveying Equipment Manufacturing

Issued EPA ID Date: 2013-06-18 14:53:18.41300

Inactive Date: Not reported

ORCHARD MACHINERY CORPORATION Facility Name:

Facility Address: 1529 N ST STE B Facility Address 2: Not reported Facility City: **FIREBAUGH** Facility County: Not reported Facility State:

CA

Facility Zip: 936222414

HAZNET:

Name: ORCHARD MACHINERY CORPORATION

1529 N ST STE B Address: Address 2: Not reported

FIREBAUGH, CA 936222414 City, State, Zip:

Contact: **CLINT HARRIS** Telephone: 5306732822 Mailing Name: Not reported Mailing Address: 2700 COLUSA HWY

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Year: 2021

CAL000386334 Gepaid: TSD EPA ID: CAD097030993

CA Waste Code: 491 - Unspecified sludge waste

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.45872

2020 Year:

Gepaid: CAL000386334 TSD EPA ID: CAD097030993

CA Waste Code: 491 - Unspecified sludge waste

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.41701

2019 Year:

CAL000386334 Gepaid: TSD EPA ID: CAD097030993

CA Waste Code: 491 - Unspecified sludge waste

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.45870

Year: 2019

CAL000386334 Gepaid: TSD EPA ID: AZR000515924

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

0.10000 Tons:

Year: 2018

Gepaid: CAL000386334 CAD097030993 TSD EPA ID:

CA Waste Code: 491 - Unspecified sludge waste

H141 - Storage, Bulking, And/Or Transfer Off Site--No Disposal Method:

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.22935

Year: 2018

CAL000386334 Gepaid: TSD EPA ID: AZR000515924

352 - Other organic solids CA Waste Code:

H141 - Storage, Bulking, And/Or Transfer Off Site--No Disposal Method:

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.20000

Year: 2017

CAL000386334 Gepaid: TSD EPA ID: CAD097030993

CA Waste Code: 352 - Other organic solids

H141 - Storage, Bulking, And/Or Transfer Off Site--No Disposal Method:

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.575

Year: 2016

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

 Gepaid:
 CAL000386334

 TSD EPA ID:
 CAD097030993

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 1.15

Year: 2015

 Gepaid:
 CAL000386334

 TSD EPA ID:
 CAD097030993

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.625

Year: 2014

 Gepaid:
 CAL000386334

 TSD EPA ID:
 CAD097030993

CA Waste Code: 352 - Other organic solids

Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Tons: 0.35

<u>Click this hyperlink</u> while viewing on your computer to access additional CA HAZNET: detail in the EDR Site Report.

Additional Info:

Year: 2021

Gen EPA ID: CAL000386334

 Shipment Date:
 5/26/2020

 Creation Date:
 6/15/2020

 Receipt Date:
 6/8/2020

 Manifest ID:
 020816321JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: US ECOLOGY VERNON INC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 491 - Unspecified sludge waste

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.41701Waste Quantity:100Quantity 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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Additional Info:

Year: 2020

Gen EPA ID: CAL000386334

Shipment Date: 5/26/2020 Creation Date: 6/15/2020 6/8/2020 Receipt Date: 020816321JJK Manifest ID: Trans EPA ID: CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES

Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD097030993

US ECOLOGY VERNON INC Trans Name:

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

491 - Unspecified sludge waste Waste Code Description:

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.41701 Waste Quantity: 100 Quantity Unit:

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

Detail Two:

Year: 2019 EM Manifest ID: 342695 Shipment Date: 3/6/2019 Receipt Date: 3/12/2019 Manifest Number: 017697202JJK Generator EPA ID: CAL000386334

ORCHARD MACHINERY CORPORATION Name:

Address: 1529 N ST STE B Address 2: Not reported City: **FIREBAUGH** 93622-2414 Zip: Telephone: 800-424-9300 Contact: Not reported Contact Telephone: 559-659-0200 Transporter 1 EPA ID: CAD028277036 Transporter 1 Emergency Number: Not reported Transporter 2 EPA ID: CAR000175422 Transporter 2 Emergency Number: Not reported TSDF EPA ID: AZR000515924

TSDF Name: YUMA YES WASTE TRANSFER FACILITY

TSDF Address 1: 2730 E 13TH ST TSDF Address 2: Not reported TSDF City: YUMA TSDF Zip: 85365-1901 TSDF Telephone: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

State:

Year: 2019 EM Manifest ID: 342695 Generator EPA ID: CAL000386334 Shipment Date: 2019-03-06 017697202JJK Manifest Number:

Line Number: H141 Method Code: Quantity Tons: 0.10000 Quantity Waste: 200.000000 Quantity Unit: Р

Number of Containers: Type of Container: Metal drums, barrels, kegs

Quantity Type: Pounds State Code: 352

Detail Two:

Address:

2018 Year:

EM Manifest ID: 018564791JJK20180601_D_1

Shipment Date: 6/1/2018 Receipt Date: 6/12/2018 Manifest Number: 018564791JJK Generator EPA ID: CAL000386334

Name: ORCHARD MACHINERY CORPORATION

Not reported

Not reported

Address 2: Not reported City: Not reported Zip: Not reported Telephone: Not reported Contact: Not reported Contact Telephone: Not reported CAD028277036 Transporter 1 EPA ID: Transporter 1 Emergency Number: Not reported Transporter 2 EPA ID: CAR000175422 Transporter 2 Emergency Number: Not reported TSDF EPA ID: AZR000515924 TSDF Name: YUMA YES LLC TSDF Address 1: Not reported TSDF Address 2: Not reported TSDF City: Not reported TSDF Zip: Not reported TSDF Telephone:

State:

Year: 2018

EM Manifest ID: 018564791JJK20180601_D_1

Generator EPA ID: CAL000386334 Shipment Date: 2018-06-01 018564791JJK Manifest Number:

Line Number: Method Code: H141 0.20000 **Quantity Tons:** Quantity Waste: 400.000000

Quantity Unit: Ρ Number of Containers: NULL Type of Container:

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

Quantity Type: NULL State Code: 352

Additional Info:

Year: 2017

Gen EPA ID: CAL000386334

Shipment Date: 20171006

Creation Date: 5/30/2018 18:31:28

 Receipt Date:
 20171013

 Manifest ID:
 017348157JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: US ECOLOGY VERNON INC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.05Waste Quantity:100Quantity Unit:P

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

Shipment Date: 20170517

Creation Date: 5/17/2018 18:30:51

 Receipt Date:
 20170523

 Manifest ID:
 016768499JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: US ECOLOGY VERNON INC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.4Waste Quantity:800Quantity Unit:P

Additional Code 1:

Additional Code 2:

Additional Code 3:

Additional Code 4:

Additional Code 4:

Additional Code 5:

Not reported

Not reported

Not reported

Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

Shipment Date: 20170310

 Creation Date:
 5/24/2017 18:30:49

 Receipt Date:
 20170320

 Manifest ID:
 015904748JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: US ECOLOGY VERNON, INC.

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.125Waste Quantity:250Quantity Unit:P

Additional Code 1:

Additional Code 2:

Additional Code 3:

Additional Code 4:

Additional Code 5:

Not reported

Not reported

Not reported

Not reported

Additional Info:

Year: 2016

Gen EPA ID: CAL000386334

 Shipment Date:
 20151208

 Creation Date:
 2/9/2016 22:16:04

 Receipt Date:
 20151217

 Manifest ID:
 014643917JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: EVOQUA WATER TECHNOLOGIES LLC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.325Waste Quantity:650Quantity Unit:P

Additional Code 1:

Additional Code 2:

Additional Code 3:

Additional Code 4:

Additional Code 4:

Additional Code 5:

Not reported

Not reported

Not reported

Shipment Date: 20150612

Creation Date: 8/18/2015 22:15:22

Receipt Date: 20150624

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

 Manifest ID:
 014049974JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: EVOQUA WATER TECHNOLOGIES LLC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.3Waste Quantity:600Quantity Unit:P

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

Additional Info:

Year: 2015

Gen EPA ID: CAL000386334

 Shipment Date:
 20151208

 Creation Date:
 2/9/2016 22:16:04

 Receipt Date:
 20151217

 Manifest ID:
 014643917JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993

Trans Name: EVOQUA WATER TECHNOLOGIES LLC

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons:0.325Waste Quantity:650Quantity Unit:P

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 Not reported

 Shipment Date:
 20150612

 Creation Date:
 8/18/2015 22:15:22

 Receipt Date:
 20150624

 Manifest ID:
 014049974JJK

 Trans EPA ID:
 CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD097030993

Trans Name: **EVOQUA WATER TECHNOLOGIES LLC**

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

352 - Other organic solids Waste Code Description:

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.3 Waste Quantity: 600 Quantity Unit:

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

Additional Info:

Year: 2014

Gen EPA ID: CAL000386334

Shipment Date: 20141215 Creation Date: 2/24/2015 22:15:05

Receipt Date: 20141223 Manifest ID: 013084735JJK Trans EPA ID: CAD028277036

ASBURY ENVIRONMENTAL SERVICES Trans Name:

Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD097030993

EVOQUA WATER TECHNOLOGIES LLC Trans Name:

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported 352 - Other organic solids Waste Code Description:

RCRA Code: Not reported

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.15 Waste Quantity: 300 Quantity Unit:

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

Shipment Date: 20140210 Creation Date: 4/1/2014 22:15:03 Receipt Date: 20140220 Manifest ID: 011876466JJK Trans EPA ID: CAD028277036

Trans Name: ASBURY ENVIRONMENTAL SERVICES

Trans 2 EPA ID: Not reported Trans 2 Name: Not reported CAD097030993 TSDF EPA ID:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Trans Name: **EVOQUA WATER TECHNOLOGIES LLC**

TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported

Waste Code Description: 352 - Other organic solids

RCRA Code: Not reported

H141 - Storage, Bulking, And/Or Transfer Off Site--No Meth Code:

Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: Waste Quantity: 400 Quantity Unit: Р

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: ORCHARD MACHINERY CORPORATION

Address: 1529 N ST STE B City,State,Zip: FIREBAUGH, CA 93622

Site ID: 140232 CERS ID: 10453858

CERS Description: Chemical Storage Facilities

Evaluation:

Eval General Type: Compliance Evaluation Inspection

Eval Date: 04-06-2017

Violations Found: No

Eval Type: Routine done by local agency

Eval Notes: Met with Jeff Worley.

Eval Division: Fresno County Department of Public Health

Eval Program: **HMRRP Eval Source:** CERS.

Eval General Type: Compliance Evaluation Inspection

04-06-2017 Eval Date: Violations Found: No

Eval Type: Routine done by local agency

Eval Notes: Met with Jeff Worley.

Eval Division: Fresno County Department of Public Health

Eval Program: HW Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

Eval Date: 11-26-2013 Violations Found: No

Eval Type: Routine done by local agency

Eval Notes: Verify ownership change, conduct initial routine inspection with Jeff

Worley present.

Eval Division: Fresno County Department of Public Health

Eval Program: HW **Eval Source:** CERS,

Affiliation:

Affiliation Type Desc: Facility Mailing Address Entity Name: Mailing Address Entity Title: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

EDR ID Number

Affiliation Address: 1529 N St Ste B
Affiliation City: Firebaugh
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93622
Affiliation Phone: ,

Affiliation Type Desc: CUPA District

Entity Name: Fresno County Community Health Department

Entity Title: Not reported

Affiliation Address: 1221 Fulton St., 3rd FloorP.O. Box 11867

Affiliation City: Fresno
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93775

Affiliation Phone: (559) 600-3271,

Document Preparer Affiliation Type Desc: Entity Name: **CLINT HARRIS** Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Affiliation Country: Not reported Not reported Affiliation Zip:

Affiliation Phone: ,

Affiliation Type Desc: Identification Signer

Entity Name: Clint Harris

Entity Title: Safety & Complince Manager

Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation

Entity Name: ORCHARD MACHINERY CORPORATION

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:

Affiliation Type Desc: Environmental Contact

Entity Name: CLINT HARRIS
Entity Title: Not reported
Affiliation Address: 2700 Colusa Hwy

Affiliation City:

Affiliation State:

Affiliation Country:

Vuba City

CA

Not reported

Affiliation Zip: 95993
Affiliation Phone:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S118233386

Affiliation Type Desc: Legal Owner DON MAYO **Entity Name:** Entity Title: Not reported Affiliation Address: 2700 Colusa Hwy Affiliation City: Yuba City

Affiliation State: CA

Affiliation Country: **United States** Affiliation Zip: 95993

Affiliation Phone: (530) 673-2822,

Affiliation Type Desc: Operator Entity Name: Pedro Campo 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) 360-9972,

E33 **ORCHARD MACHINERY CORPORATION** RCRA NonGen / NLR 1024838906

CAL000386334

West 1529 N ST STE B 1/8-1/4 FIREBAUGH, CA 93622

0.237 mi.

1254 ft. Site 3 of 4 in cluster E

Relative: RCRA Listings:

Higher 20130618 Date Form Received by Agency:

Handler Name: Orchard Machinery Corporation Actual: 151 ft.

Handler Address: 1529 N ST STE B

Handler City, State, Zip: FIREBAUGH, CA 93622-2414

EPA ID: CAL000386334 Contact Name: **CLINT HARRIS** Contact Address: 2700 COLUSA HWY Contact City, State, Zip: YUBA CITY, CA 95993

Contact Telephone: 530-673-2822 530-673-0296 Contact Fax:

Contact Email: CHA@SHAKERMAKER.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 Handler Activities Active Site Indicator: State District Owner: Not reported State District: Not reported Mailing Address: 2700 COLUSA HWY

Mailing City, State, Zip: YUBA CITY, CA 95993-0000 Owner Name: Donald Mayo Owner Type: Other

Clint Harris Operator Name: Operator Type: Other Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No

Distance
Elevation Site

Elevation Site Database(s) EPA ID Number

ORCHARD MACHINERY CORPORATION (Continued)

1024838906

EDR ID Number

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 State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: N

Sub-Part K Indicator:Not reported2018 GPRA Permit Baseline:Not on the Baseline2018 GPRA Renewals Baseline:Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator:

Institutional Control Indicator:

Human Exposure Controls Indicator:

N/A

Groundwater Controls Indicator:

N/A

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:

Handler Date of Last Change:

Not reported
20180906

Recognized Trader-Importer:

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: DONALD MAYO

 Legal Status:
 Other

 Date Became Current:
 Not reported

 Date Ended Current:
 Not reported

 Owner/Operator Address:
 2700 COLUSA HWY

Owner/Operator City,State,Zip: YUBA CITY, CA 95993-0000

Owner/Operator Telephone: 530-673-2822
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

Owner/Operator Name: CLINT HARRIS

Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

1024838906

Owner/Operator Address: 2700 COLUSA HWY YUBA CITY, CA 95993 Owner/Operator City, State, Zip:

Owner/Operator Telephone: 530-673-2822 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20130618 Handler Name: ORCHARD MACHINERY CORPORATION

Federal Waste Generator Description: Not a generator, verified

Not reported State District Owner:

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:

NAICS Description: FARM MACHINERY AND EQUIPMENT MANUFACTURING

NAICS Code: 333922

NAICS Description: CONVEYOR AND CONVEYING EQUIPMENT MANUFACTURING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

No Evaluations Found Evaluations:

E34 **ORCHARD MACHINERY CORPORATION CUPA Listings** S116348162 N/A

West 1529 N ST #B

1/8-1/4 FIREBAUGH, CA 93622

0.237 mi.

1254 ft. Site 4 of 4 in cluster E

CUPA FRESNO: Relative:

Higher ORCHARD MACHINERY CORPORATION Name:

Address: 1529 N ST #B Actual:

FIREBAUGH, CA 93622 City,State,Zip: 151 ft.

Region: **FRESNO** Cross Street: 15TH Facility ID: FA0170181 APM Number: 00818108

UST REMOVAL/CLOSURE W/1 TANK Program Element:

ORCHARD MACHINERY CORPORATION Name:

Address: 1529 N ST #B

FIREBAUGH, CA 93622 City,State,Zip:

FRESNO Region: Cross Street: 15TH

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ORCHARD MACHINERY CORPORATION (Continued)

S116348162

N/A

Facility ID: FA0170181 APM Number: 00818108

AUTO REPAIR/MAINTENANCE MODEL PLAN Program Element:

Name: ORCHARD MACHINERY CORPORATION

Address: 1529 N ST #B

FIREBAUGH, CA 93622 City,State,Zip:

Region: **FRESNO** Cross Street: 15TH Facility ID: FA0170181 APM Number: 00818108

HAZARDOUS WASTE GENERATOR (CESQG) Program Element:

DMR RECYCLING F35 SWRCY S127815587

West 1461 N ST

1/4-1/2 FIREBAUGH, CA 93622

0.273 mi.

Site 1 of 3 in cluster F 1441 ft.

SWRCY: Relative:

Higher DMR RECYCLING Name: Address: 1461 N ST

Actual: FIREBAUGH, CA 93622 City,State,Zip: 151 ft.

Reg Id: Not reported

RC293953.001 Cert Id: Mailing Address: Po Box 577 Mailing City: Firebaugh Mailing State: CA Mailing Zip Code: 93622 Website: Not reported Email: Not reported (559) 903-8052 Phone Number:

Rural: Operation Begin Date: 07/01/2021 Aluminium: Not reported

Glass: Not reported Plastic: Not reported Bimetal: Not reported

Hours of Operation: Mon - Sat 9:00 am - 4:00 pm, Closed 11:00 am - 12:00 pm; Sun Closed

Organization ID: Not reported Organization Name: **Dmr Recycling**

G36 LAZZ'S CAR WASH LUST U003788595 **WSW** 1606 N ST Cortese N/A

FIREBAUGH, CA 93622 1/4-1/2

0.286 mi.

Site 1 of 3 in cluster G 1510 ft.

LUST REG 5: Relative:

Higher LAZZ'S CAR WASH Name: 1606 N ST Address: Actual: City: **FIREBAUGH** 152 ft.

Region:

Status: Case Closed Case Number: 5T10000563

Drinking Water Aquifer affected Case Type:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

LAZZ'S CAR WASH (Continued) U003788595

Substance: **GASOLINE** JWH Staff Initials: Regional Lead Agency: Program: LUST MTBE Code:

CORTESE:

LAZZ'S CAR WASH Name:

Address: 1606 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE Envirostor Id: Not reported Global ID: T0601900546

LUST CLEANUP SITE Site/Facility Type:

Cleanup Status: **COMPLETED - CASE CLOSED**

Status Date: Not reported Site Code: Not reported Latitude: Not reported Longitude: Not reported Owner: Not reported Not reported Enf Type: Swat R: Not reported Flag: active Order No: Not reported Waste Discharge System No: Not reported

Effective Date: Not reported Not reported Region 2: WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported File Name: Active Open

G37 LAZZ'S CAR WASH UST FINDER RELEASE 1029014684

wsw 1606 N ST 1/4-1/2 FIREBAUGH, CA 93622

0.286 mi.

1510 ft. Site 2 of 3 in cluster G

UST FINDER RELEASE: Relative: Higher Object ID:

53540 Facility ID: Not reported Actual: Lust ID: CAT0601900546 152 ft. LAZZ'S CAR WASH Name:

1606 N ST Address: City, State, Zip: FIREBAUGH, CA 93622

Address Match Type: StreetAddress Reported Date: Not reported Status: No Further Action Substance: Not reported Population within 1500ft:

Domestic Wells within 1500ft: Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported N/A

Direction Distance

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

LAZZ'S CAR WASH (Continued)

1029014684

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 WHPA Water Type: GW - Ground water

WHPA Facility Type: WL - Well WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Tribe: Not reported

EPA Region: 9

NFA Letter 1: Not reported NFA Letter 2: Not reported Not reported NFA Letter 3: Not reported NFA Letter 4: Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.45183 Y Coord: 36.85173 Latitude: 36.85173 Longitude: -120.45183

G38 LAZZ'S CAR WASH LUST S102432561
WSW 1606 N CUPA Listings N/A

WSW 1606 N CUPA Listings N/A 1/4-1/2 FIREBAUGH, CA 93622 HIST CORTESE

0.286 mi.

1510 ft. Site 3 of 3 in cluster G

 Relative:
 LUST:

 Higher
 Name:
 LAZZ'S CAR WASH

 Actual:
 Address:
 1606 N ST

 Actual:
 Address:
 1606 N ST

 152 ft.
 City,State,Zip:
 FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900546

Global Id: T0601900546
Latitude: 36.8523823
Longitude: -120.452046

Status: Completed - Case Closed

Status Date: 12/04/1996
Case Worker: JWH
RB Case Number: 5T10000563
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: FA0270444

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline EPA Region: 9

Coordinate Source: Google Geocode

Cuf Case: YES

Quantity Released Gallons: Not re

Not reported Begin Date: 05/17/1995 Leak Reported Date: 06/16/1995 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Stop Description: Not reported No Further Action Date: 12/04/1996

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

LAZZ'S CAR WASH (Continued)

S102432561

Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Severely Disadvantaged Community Disadvantaged Community:

CA Enviroscreen 3 Score: 81-85% CA Enviroscreen 4 Score: 90-95% Military DOD Site: No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

Global Id: T0601900546

Contact Type: Local Agency Caseworker

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV Contact Name:

Organization Name: FRESNO COUNTY Address: 1221 Fulton Street

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

T0601900546 Global Id:

Regional Board Caseworker - Primary Caseworker Contact Type:

Contact Name: JEFFREY HANNEL

CENTRAL VALLEY RWQCB (REGION 5F) Organization Name:

Address: 1685 E STREET **FRESNO** City:

jhannel@waterboards.ca.gov Email:

Phone Number: Not reported

LUST:

T0601900546 Global Id: Other Action Type: Date: 06/12/1995 Action: Leak Discovery

Global Id: T0601900546 Other Action Type: Date: 06/16/1995 Action: Leak Reported

T0601900546 Global Id: Action Type: Other Date: 05/17/1995 Action: Leak Stopped

LUST:

Global Id: T0601900546

Status: Open - Case Begin Date

Status Date: 05/17/1995

T0601900546 Global Id:

Status: Open - Site Assessment

06/16/1995 Status Date:

Global Id: T0601900546

Status: Completed - Case Closed

Status Date: 12/04/1996

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

LAZZ'S CAR WASH (Continued)

S102432561

CUPA FRESNO:

Name: LAZZ'S CAR WASH

Address: 1606 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0270444
APM Number: 00815003

Program Element: UST REMOVAL/CLOSURE W/4 TANKS

Name: LAZZ'S CAR WASH

Address: 1606 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0270444
APM Number: 00815003

Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

HIST CORTESE:

edr_fname: LAZZ'S CAR WASH

edr_fadd1: 1606 N

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Facility County Code: 10
Reg By: LTNKA
Reg Id: 5T10000563

H39 AG & INDUSTRIAL SUPPLY INC. (FORMER) UST FINDER RELEASE 1028914769
ENE 7377 RIVER DRIVE N/A

ENE 7377 RIVER DRIVE 1/4-1/2 FIREBAUGH, CA 93622

0.286 mi.

1512 ft. Site 1 of 3 in cluster H

Relative: UST FINDER RELEASE:

 Higher
 Object ID:
 53593

 Actual:
 Facility ID:
 Not reported

 150 ft.
 Lust ID:
 CAT0603900057

Name: AG & INDUSTRIAL SUPPLY INC. (FORMER)

Address: 7377 RIVER DRIVE
City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress
Reported Date: Not reported
Status: Open
Substance: Not reported

Population within 1500ft: 252
Domestic Wells within 1500ft: 46

Land Use: Developed, Low Intensity

Within SPA: No

SPA PWS Facility ID:

SPA Water Type:

SPA Facility Type:

SPA HUC12:

Not reported

Not reported

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897
WHPA Water Type: GW - Ground water

WHPA Facility Type: WL - Well

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

1028914769

WHPA HUC12: 180400010806

Within 100yr Floodplain: Yes

Not reported Tribe:

EPA Region: 9

NFA Letter 1: Not reported NFA Letter 2: Not reported Not reported NFA Letter 3: NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.43899 Y Coord: 36.8558100000001 36.8558099999999 Latitude:

Longitude: -120.43899

AG & INDUSTRIAL SUPPLY INC. (FORMER) S120761090 LUST

ENE 7377 RIVER DRIVE Cortese N/A

FIREBAUGH, CA 93622 1/4-1/2 **CERS**

0.286 mi.

H40

1512 ft. Site 2 of 3 in cluster H

Relative: LUST: Higher AG & INDUSTRIAL SUPPLY INC. (FORMER) Name:

Address: 7377 RIVER DRIVE Actual: City, State, Zip: FIREBAUGH, CA 93622 150 ft.

CENTRAL VALLEY RWQCB (REGION 5F) Lead Agency:

Case Type: **LUST Cleanup Site**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603900057

T0603900057 Global Id: Latitude: 36.8557933910083 Longitude: -120.438923483276 Status: Open - Site Assessment

Status Date: 02/15/2017 KPD Case Worker: RB Case Number: 5T20000057 Local Agency: MADERA COUNTY

File Location: Not reported Local Case Number: Not reported

Potential Media Affect: Other Groundwater (uses other than drinking water)

Potential Contaminants of Concern: Gasoline EPA Region:

Coordinate Source: Google Map Move

Cuf Case:

Quantity Released Gallons: Not reported 04/11/1988 Begin Date: Leak Reported Date: 04/22/1988 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Stop Description: Not reported No Further Action Date: Not reported

CA Water Watershed Name: San Joaquin Valley Floor - Gravelly Fork (545.10) Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community: Severely Disadvantaged Community

CA Enviroscreen 3 Score: 76-80% CA Enviroscreen 4 Score: 80-85%

Direction Distance

Elevation Site Database(s) EPA ID Number

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

S120761090

EDR ID Number

Military DOD Site: No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

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.

LUST:

Global Id: T0603900057

Contact Type: Local Agency Caseworker

Contact Name: ANN ROLAN
Organization Name: MADERA COUNTY
Address: 2037 WEST CLEVELAND

City: MADERA

Email: arolan@madera-county.com

Phone Number: Not reported

Global Id: T0603900057

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: Khalid Durrani

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: FRESNO

Email: khalid.durrani@waterboards.ca.gov

Phone Number: Not reported

LUST:

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 06/25/2003

 Action:
 Staff Letter

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 02/24/2010

 Action:
 Letter - Notice

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 10/21/1999

 Action:
 Other Report

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 10/15/2010

Action: Preliminary Site Assessment Workplan

Global Id: T0603900057
Action Type: RESPONSE
Date: 08/04/2010

Action: Verbal Communication

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

S120761090

Global Id: T0603900057 **ENFORCEMENT** Action Type: Date: 07/17/2007 Action: Warning Letter

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 06/19/2009 Action: Staff Letter

T0603900057 Global Id: Action Type: **ENFORCEMENT** Date: 08/04/2010 Action: Notice of Violation

Global Id: T0603900057 **ENFORCEMENT** Action Type: 04/22/1988 Date: Action: Other Report

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 03/05/1988 Action: Other Report

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 02/22/1988 Action: Other Report

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 10/31/2019

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 06/19/2020 Action: Staff Letter

T0603900057 Global Id: Action Type: **ENFORCEMENT** Date: 07/03/2020 Action: Access Agreement

Global Id: T0603900057 Action Type: **ENFORCEMENT** Date: 05/18/2021 Action: Staff Letter

T0603900057 Global Id: Action Type: Other 04/11/1988 Date: Action: Leak Discovery

Global Id: T0603900057

Action Type: Other

Direction Distance

Elevation Site Database(s) EPA ID Number

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

S120761090

EDR ID Number

Date: 04/22/1988 Action: Leak Reported

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 08/01/2003

Action: Other Report / Document

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 05/05/2021

Action: Preliminary Site Assessment Workplan - Regulator Responded

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 01/31/2014

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 05/26/2022

 Action:
 Staff Letter

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 04/28/2017

Action: Preliminary Site Assessment Workplan

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 09/01/2010

 Action:
 Staff Letter

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 02/15/2017

 Action:
 Warning Letter

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 03/24/2010

 Action:
 Other Workplan

 Global Id:
 T0603900057

 Action Type:
 RESPONSE

 Date:
 05/30/2019

 Action:
 Other Workplan

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 03/07/2019

 Action:
 Warning Letter

 Global Id:
 T0603900057

 Action Type:
 ENFORCEMENT

 Date:
 04/10/2020

 Action:
 Letter - Notice

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

S120761090

Global Id: T0603900057 **ENFORCEMENT** Action Type: Date: 12/07/1999 Action: Staff Letter

Global Id: T0603900057 **ENFORCEMENT** Action Type: Date: 06/25/2003 Action: Staff Letter

T0603900057 Global Id: **ENFORCEMENT** Action Type: 03/05/1988 Date: Action: Other Report

Global Id: T0603900057 **ENFORCEMENT** Action Type: 08/01/1990 Date: Action: Other Report

Global Id: T0603900057 **ENFORCEMENT** Action Type: Date: 03/08/2023 Action: Notice to Comply

LUST:

Global Id: T0603900057

Status: Open - Case Begin Date

Status Date: 04/11/1988

Global Id: T0603900057

Status: Open - Site Assessment

04/22/1988 Status Date:

Global Id: T0603900057

Open - Site Assessment Status:

Status Date: 02/15/2017

CORTESE:

Name: AG & INDUSTRIAL SUPPLY INC. (FORMER)

Address: 7377 RIVER DRIVE City,State,Zip: FIREBAUGH, CA 93622

Region: **CORTESE** Envirostor Id: Not reported Global ID: T0603900057

LUST CLEANUP SITE Site/Facility Type: **OPEN - SITE ASSESSMENT** Cleanup Status:

Status Date: Not reported Site Code: Not reported Latitude: Not reported Not reported Longitude: Owner: Not reported Enf Type: Not reported Swat R: Not reported Flag: active

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AG & INDUSTRIAL SUPPLY INC. (FORMER) (Continued)

S120761090

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 Not reported Waste Management Uit Name: File Name: Active Open

CERS:

AG & INDUSTRIAL SUPPLY INC. (FORMER) Name:

Address: 7377 RIVER DRIVE FIREBAUGH, CA 93622 City,State,Zip:

Site ID: 708523 CERS ID: T0603900057

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker

ANN ROLAN - MADERA COUNTY **Entity Name:**

Entity Title: Not reported

Affiliation Address: 2037 WEST CLEVELAND

Affiliation City: **MADERA** Affiliation State: CA

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

Affiliation Type Desc: Regional Board Caseworker

Entity Name: Khalid Durrani - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title: Not reported Affiliation Address: 1685 E STREET Affiliation City: **FRESNO** Affiliation State:

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

H41 **AG & INDUSTRIAL SUPPLY IN** HIST UST U001588113 **ENE** 7377 RIVERDRIVE **HIST CORTESE** N/A

1/4-1/2

0.286 mi.

FIREBAUGH, CA 93622

1512 ft. Site 3 of 3 in cluster H

HIST UST: Relative: Higher AG AND INDUSTRIAL SUPPLY Name:

7377 RIVER DR Address: Actual: City,State,Zip: FIREBAUGH, CA 93622 150 ft.

File Number: Not reported URL: Not reported STATE Region: Facility ID: 00000006863 Facility Type: Other Other Type: **STORE**

Contact Name: THOMAS H AUSTIN

Telephone: 2096593191

Owner Name: AG AND INDUSTRIAL SUPPLY

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

AG & INDUSTRIAL SUPPLY IN (Continued)

U001588113

1028933142

N/A

UST FINDER RELEASE

Owner Address: 7377 RIVERDRIVE FIREBAUGH, CA 93622 Owner City, St, Zip:

Total Tanks: 0001

Tank Num: 001 Container Num: 1978 Year Installed: Tank Capacity: 00000500 Tank Used for: **PRODUCT** Type of Fuel: **UNLEADED**

Container Construction Thickness: 12 Leak Detection: Visual

HIST CORTESE:

edr_fname: AG & INDUSTRIAL SUPPLY IN

edr_fadd1: 7377 RIVERDRIVE City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Facility County Code: 20 Reg By: **LTNKA** 5T200000057 Reg Id:

53527

F42 **CHEVRON #2544** West 1407 N ST/14TH ST

1/4-1/2 FIREBAUGH, CA 93622

0.295 mi.

1556 ft. Site 2 of 3 in cluster F

UST FINDER RELEASE: Relative:

Higher Object ID:

Facility ID: Not reported Actual: Lust ID: CAT0601900021 151 ft. CHEVRON #2544 Name: 1407 N ST/14TH ST Address: City,State,Zip: FIREBAUGH, CA 93622

> Address Match Type: StreetInt Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 614 Domestic Wells within 1500ft:

Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported

Within WHPA: Yes

CA1010005 11897 WHPA PWS Facility ID: WHPA Water Type: GW - Ground water

WL - Well WHPA Facility Type: WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Not reported Tribe:

EPA Region:

NFA Letter 1: Not reported Not reported NFA Letter 2:

Direction Distance

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

CHEVRON #2544 (Continued)

NFA Letter 3: Not reported NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.45422

Y Coord: 36.8552 Latitude: 36.8552 Longitude: -120.45422

F43 CHEVRON #2544 LUST \$101294389

West 1407 ST/14TH Cortese N/A

1/4-1/2 FIREBAUGH, CA 93622 HIST CORTESE 0.295 mi. CERS

1556 ft. Site 3 of 3 in cluster F

 Relative:
 LUST:

 Higher
 Name:
 CHEVRON #2544

 Actual:
 Address:
 1407 N ST/14TH ST

 151 ft.
 City,State,Zip:
 FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900021

Global Id: T0601900021
Latitude: 36.851153
Longitude: -120.488647

Status: Completed - Case Closed

 Status Date:
 06/24/1997

 Case Worker:
 JWH

 RB Case Number:
 5T10000021

 Local Agency:
 FRESNO COUNTY

 File Location:
 Not reported

 Local Case Number:
 FA0269417

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region: 9

Coordinate Source: * Historical Geocode - Zip Code Match

Cuf Case: YES
Quantity Released Gallons: Not reported
Begin Date: 09/29/1986
Leak Reported Date: 09/29/1986

How Discovered: Subsurface Monitoring

How Discovered Description:

Discharge Source:

Discharge Cause:

Other

Unknown

Stop Method:

Stop Description:

No Further Action Date:

Not reported

Not reported

Not reported

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community:

CA Enviroscreen 3 Score:

CA Enviroscreen 4 Score:

Military DOD Site:

No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

1028933142

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #2544 (Continued)

S101294389

Global Id: T0601900021

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

Global Id: T0601900021

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: **FRESNO**

jhannel@waterboards.ca.gov Email:

Phone Number: Not reported

LUST:

T0601900021 Global Id: Action Type: Other Date: 09/29/1986 Action: Leak Discovery

Global Id: T0601900021 Action Type: **ENFORCEMENT** Date: 06/24/1997

Action: Closure/No Further Action Letter

T0601900021 Global Id: Action Type: Other Date: 09/29/1986 Action: Leak Reported

LUST:

Global Id: T0601900021

Status: Open - Case Begin Date

09/29/1986 Status Date:

T0601900021 Global Id:

Status: Open - Site Assessment

Status Date: 09/21/1987

Global Id: T0601900021 Open - Remediation Status:

Status Date: 10/27/1994

T0601900021 Global Id:

Status: Completed - Case Closed

06/24/1997 Status Date:

LUST REG 5:

CHEVRON #2544 Name: Address: 1407 N ST/14TH ST **FIREBAUGH** City:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #2544 (Continued)

S101294389

Region: 5

Case Closed Status: Case Number: 5T10000021

Case Type: Drinking Water Aquifer affected

Substance: **GASOLINE** JWH Staff Initials: Regional Lead Agency: LUST Program: MTBE Code: N/A

CORTESE:

Name: CHEVRON #2544 Address: 1407 N ST/14TH ST City,State,Zip: FIREBAUGH, CA 93622

Region: **CORTESE** Envirostor Id: Not reported T0601900021 Global ID:

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 Not reported Effective Date: Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported Active Open File Name:

HIST CORTESE:

CHEVRON #2544 edr_fname: edr_fadd1: 1407 ST/14TH

City,State,Zip: FIREBAUGH, CA 93622

CORTESE Region: Facility County Code: 10 Reg By: **LTNKA** Reg Id: 5T10000021

CERS:

CHEVRON #2544 Name: 1407 N ST/14TH ST Address: City,State,Zip: FIREBAUGH, CA 93622

Site ID: 719686 CERS ID:

Leaking Underground Storage Tank Cleanup Site CERS Description:

Affiliation:

Affiliation Type Desc: Regional Board Caseworker

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #2544 (Continued)

S101294389

Entity Title: Not reported 1685 É STREET Affiliation Address: Affiliation City: **FRESNO** Affiliation State: CA Affiliation Country: Not reported Not reported Affiliation Zip:

Affiliation Phone:

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:

144 **US BROWNFIELDS** 1016370655 **VACANT COMMERCIAL BUILDING FINDS** N/A

WNW **1388 O STREET** 1/4-1/2 FIREBAUGH, CA 93662

US BROWNFIELDS:

0.298 mi.

Relative:

1573 ft. Site 1 of 5 in cluster I

Higher Name: VACANT COMMERCIAL BUILDING

Address: 1388 O STREET Actual: Recipient name: Firebaugh, City of 150 ft.

Grant type: Assessment Property Number: 008-132-16

Parcel size: 0.1

36.855753999999997 Latitude: Longitude: -120.45359500000001

Highlights: Former Use: Commercial building; historically a church but vacant for

at least 12 years.

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name:

Redevelopment Start Date: Assessment Funding Entity:

Cleanup Funding Entity: Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

EPA

Cooperative Agreement Number: Not reported 1/25/2010 Start Date: Ownership Entity: Private Completion Date: 3/9/2010 Current Owner:

Cleanup Required: Ν

Distance Elevation Site

ion Site Database(s) EPA ID Number

VACANT COMMERCIAL BUILDING (Continued)

1016370655

EDR ID Number

Video Available:

Photo Available:

Y
Institutional Controls Required:

IC Category Proprietary Controls:

IC Cat. Info. Devices:

IC Cat. Gov. Controls:

IC Cat. Enforcement Permit Tools:

IC in place date:

IC in place:

State/tribal program date:

State/tribal program ID:

Contaminant Found:
Contaminant Cleanup:
Media Affected:
Media Cleanup:
Not reported
Not reported
Not reported
Not reported

Property Description: Commercial building; historically a church but vacant for at least 12

years. 851

Below Poverty Number: Below Poverty Percent: 43.87 Meidan Income: 4873 Meidan Income Number: 1403 Meidan Income Percent: 72.32 Vacant Housing Number: 61 Vacant Housing Percent: 10.8 Unemployed Number: 152 Unemployed Percent: 7.84

FINDS:

Registry ID: 110046371127

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

145 TWO RESIDENTIAL DWELLINGS **US BROWNFIELDS** 1016370652 WNW

1368/1370 O STREET **FINDS** N/A

1/4-1/2 FIREBAUGH, CA 93662

0.304 mi. 1607 ft.

Site 2 of 5 in cluster I US BROWNFIELDS: Relative:

Higher TWO RESIDENTIAL DWELLINGS Name:

Address: 1368/1370 O STREET Actual: Recipient name: Firebaugh, City of 150 ft. Grant type: Assessment

Property Number: 008-132-04 Parcel size: 0.26

36.856046300000003 Latitude: Longitude: -120.45346170000001

Highlights: Two residential dwellings Former Use: Two residential dwellings

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source:

Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA** Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 1/25/2010 Ownership Entity: Private Completion Date: 3/20/2010

Cleanup Required: Ν Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Current Owner:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: 0.26 Past use residential acreage: Past use commercial acreage: Past use industrial acreage: Future use greenspace acreage:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TWO RESIDENTIAL DWELLINGS (Continued)

1016370652

Future use residential acreage: 0.26 Future use commercial acreage: Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Two residential dwellings

Below Poverty Number: 883 Below Poverty Percent: 44.35 Meidan Income: 5179 Meidan Income Number: 1445 Meidan Income Percent: 72.58 Vacant Housing Number: 64 Vacant Housing Percent: 10.99 **Unemployed Number:** 157 **Unemployed Percent:** 7.89

FINDS:

110046371038 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

VACANT BLUE HOUSE US BROWNFIELDS 1016370656 **FINDS** N/A

WNW **1459 14TH STREET** 1/4-1/2 FIREBAUGH, CA 93662

0.306 mi.

146

Site 3 of 5 in cluster I 1615 ft. Relative: **US BROWNFIELDS:**

Higher **VACANT BLUE HOUSE** Name: Address: **1459 14TH STREET** Actual: Firebaugh, City of Recipient name: 151 ft. Grant type: Assessment

Property Number: 008-132-17 Parcel size: 0.07 Latitude: 36.855629 Longitude: -120.453782

Highlights: Former Use: Vacant residential dwelling

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date:

Distance Elevation Site

Site Database(s) EPA ID Number

VACANT BLUE HOUSE (Continued)

1016370656

EDR ID Number

Assessment Funding Entity: EPA

Cleanup Funding Entity: Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 1/25/2010 Ownership Entity: Private Completion Date: 3/2/2010

Current Owner: Cleanup Required: Ν Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs:

Property Description: Vacant residential dwelling

Below Poverty Number: 842 Below Poverty Percent: 43.54 Meidan Income: 4490 Meidan Income Number: 1395 Meidan Income Percent: 72.13 Vacant Housing Number: 59 Vacant Housing Percent: 10.6 **Unemployed Number:** 148 **Unemployed Percent:** 7.65

FINDS:

Registry ID: 110046371136

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA)

Direction Distance

Elevation Site Database(s) EPA ID Number

VACANT BLUE HOUSE (Continued)

1016370656

EDR ID Number

performed by EPA Regions.

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

 I47
 SALLY ANNS/VALLEY GARAGE
 US BROWNFIELDS
 1016370653

 West
 1381/1415/1435 14TH STREET
 FINDS
 N/A

1/4-1/2 FIREBAUGH, CA 93662

0.322 mi.

1698 ft. Site 4 of 5 in cluster I

Relative: US BROWNFIELDS:

HigherName:SALLY ANNS/VALLEY GARAGEActual:Address:1381/1415/1435 14TH STREET151 ft.Recipient name:Firebaugh, City of

Grant type: Assessment
Property Number: 008-132-07
Parcel size: 0.26

Highlights: Sally Anns/Valley Garage Former Use: Sally Anns (former Beauty/Retail

shop), Valley Garage - old likely automobile repair shop. Residential

apartment associated with Sally Anns.

Start Date: Redev Completition Date: -

Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000

Assessment Funding: 5000
Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: EPA

Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 1/25/2010
Ownership Entity: Government Completion Date: 3/9/2010
Current Owner: City of Firebaugh

Cleanup Required: Y
Video Available: N
Photo Available: Y
Institutional Controls Required: N
IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: -

State/tribal program date: State/tribal program ID: -

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SALLY ANNS/VALLEY GARAGE (Continued)

1016370653

Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: Past use commercial acreage: 0.26 Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: 0.26 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Sally Anns (former Beauty/Retail shop), Valley Garage - old likely

automobile repair shop. Residential apartment associated with Sally

Below Poverty Number: 860 Below Poverty Percent: 43.81 Meidan Income: 4664 Meidan Income Number: 1418 Meidan Income Percent: 72.24 Vacant Housing Number: 61 Vacant Housing Percent: 10.76 **Unemployed Number:** 151 **Unemployed Percent:** 7.69

Name: SALLY ANNS/VALLEY GARAGE Address: 1381/1415/1435 14TH STREET

Recipient name: Firebaugh, City of Grant type: Assessment Property Number: 008-132-07 Parcel size: 0.26

Latitude: 36.855457999999999

Longitude: -120.454106

Highlights: Sally Anns/Valley Garage Former Use: Sally Anns (former Beauty/Retail

shop), Valley Garage - old likely automobile repair shop. Residential

apartment associated with Sally Anns.

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date:

Grant Type: Hazardous

Assessment Funding Entity:

Cleanup Funding Entity:

Accomplishment Type: Phase II Environmental Assessment

EPA

Cooperative Agreement Number: Not reported Start Date: 2/3/2011 Ownership Entity: Government Completion Date: 2/25/2011 Current Owner: City of Firebaugh

Direction Distance Elevation

vation Site Database(s) EPA ID Number

SALLY ANNS/VALLEY GARAGE (Continued)

State/tribal program ID:

1016370653

EDR ID Number

Cleanup Required: Y
Video Available: N
Photo Available: Y
Institutional Controls Required: N
IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: -

Contaminant Found:

Contaminant Cleanup:

Media Affected:

Media Cleanup:

Not reported

Not reported

Not reported

Not reported

Property Description: Sally Anns (former Beauty/Retail shop), Valley Garage - old likely

automobile repair shop. Residential apartment associated with Sally

Anns. 860

Below Poverty Number: Below Poverty Percent: 43.81 Meidan Income: 4664 Meidan Income Number: 1418 72.24 Meidan Income Percent: Vacant Housing Number: 61 Vacant Housing Percent: 10.76 **Unemployed Number:** 151 **Unemployed Percent:** 7.69

Name: SALLY ANNS/VALLEY GARAGE
Address: 1381/1415/1435 14TH STREET

Recipient name: Firebaugh, City of Grant type: Assessment Property Number: 008-132-07

Parcel size: 0.26

Latitude: 36.855457999999999

Longitude: -120.454106

Highlights: Sally Anns/Valley Garage Former Use: Sally Anns (former Beauty/Retail

shop), Valley Garage - old likely automobile repair shop. Residential

apartment associated with Sally Anns.

Start Date: Redev Completition Date:

Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: -

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SALLY ANNS/VALLEY GARAGE (Continued)

1016370653

Assessment Funding: 15000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA** Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase II Environmental Assessment

Cooperative Agreement Number: Not reported 9/28/2010 Start Date: Ownership Entity: Government Completion Date: 11/29/2010 Current Owner: City of Firebaugh

Cleanup Required: Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: Past use commercial acreage: 0.26 Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: 0.26 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Sally Anns (former Beauty/Retail shop), Valley Garage - old likely

automobile repair shop. Residential apartment associated with Sally

Anns.

Below Poverty Number: 860 Below Poverty Percent: 43.81 Meidan Income: 4664 Meidan Income Number: 1418 Meidan Income Percent: 72.24 Vacant Housing Number: 61 Vacant Housing Percent: 10.76 **Unemployed Number:** 151 **Unemployed Percent:** 7.69

FINDS:

Registry ID: 110046371047

Direction Distance

Elevation Site Database(s) EPA ID Number

SALLY ANNS/VALLEY GARAGE (Continued)

1016370653

EDR ID Number

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

 I48
 BELLI CAR WASH
 US BROWNFIELDS
 1016370651

 WNW
 1365 N STREET
 FINDS
 N/A

1/4-1/2 FIREBAUGH, CA 93662

0.335 mi.

1769 ft. Site 5 of 5 in cluster I

Relative: US BROWNFIELDS:

HigherName:BELLI CAR WASHActual:Address:1365 N STREET151 ft.Recipient name:Firebaugh, City ofGrant type:AssessmentProperty Number:008-132-08

Parcel size: 0.26

Latitude: 36.855618999999997

Longitude: -120.454263

Highlights: Former Use: Belli Car Wash/former fuel service station

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA** Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 6/29/2010
Ownership Entity: Private Completion Date: 9/1/2010

Current Owner:

Cleanup Required:

Video Available:

Photo Available:

Institutional Controls Required:

IC Category Proprietary Controls:

IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: -

IC Cat. Info. Devices:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BELLI CAR WASH (Continued)

1016370651

IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: 0.26 Past use commercial acreage: Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: 0.26 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Belli Car Wash/former fuel service station

Below Poverty Number: 786 Below Poverty Percent: 43.4 Meidan Income: 4802 Meidan Income Number: 1310 Meidan Income Percent: 72.34 Vacant Housing Number: 59 11.05 Vacant Housing Percent: **Unemployed Number:** 144 **Unemployed Percent:** 7.95

FINDS:

110046371029 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

J49 **QUALITY MACHINERY CENTER** UST FINDER RELEASE 1029094491

N/A

1366 N ST 1/4-1/2 FIREBAUGH, CA 93622

0.352 mi.

West

1856 ft. Site 1 of 5 in cluster J

Relative: **UST FINDER RELEASE:**

Higher Object ID: 53523 Facility ID: Not reported Actual: Lust ID: CAT0601900310 152 ft.

Name: **QUALITY MACHINERY CENTER**

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress Reported Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUALITY MACHINERY CENTER (Continued)

1029094491

Status: No Further Action Substance: Not reported 579

Population within 1500ft: Domestic Wells within 1500ft:

Land Use: Developed, Medium Intensity

Within SPA:

SPA PWS Facility ID: Not reported Not reported SPA Water Type: SPA Facility Type: Not reported SPA HUC12: Not reported

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 GW - Ground water WHPA Water Type:

WHPA Facility Type: WL - Well 180400010806 WHPA HUC12:

Within 100yr Floodplain: No

Not reported Tribe:

EPA Region:

NFA Letter 1: Not reported NFA Letter 2: Not reported NFA Letter 3: Not reported NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode -120.45477 X Coord: Y Coord: 36.85547

Latitude: 36.8554699999999 Longitude: -120.454769999999

J50 **JA QUINN TRUST US BROWNFIELDS** 1016370671 West **1366 N STREET FINDS** N/A

1/4-1/2 FIREBAUGH, CA 93622

0.352 mi.

1856 ft. Site 2 of 5 in cluster J **US BROWNFIELDS:** Relative:

Higher Name: JA QUINN TRUST 1366 N STREET Address: Actual: Recipient name: Firebaugh, City of 152 ft. Grant type: Assessment Property Number: 008-140-34

Parcel size: 0.87 Latitude: 36.855117 -120.454736 Longitude:

Highlights: Former Use: Historic industrial use with USTs; recently utilized for

various equipment storage

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding:

Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date:

Direction Distance Elevation

nce EDR ID Number ttion Site Database(s) EPA ID Number

JA QUINN TRUST (Continued)

1016370671

Assessment Funding Entity: EPA

Cleanup Funding Entity:

Grant Type: Petroleum

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 8/27/2010 Ownership Entity: Private Completion Date: 12/10/2010

Current Owner: Cleanup Required: U Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found:
Contaminant Cleanup:
Media Affected:
Media Cleanup:
Not reported
Not reported
Not reported
Not reported

Num. of cleanup and re-dev. jobs:

Past use greenspace acreage:

Past use residential acreage:

Past use commercial acreage:

Past use industrial acreage:

Future use greenspace acreage:

Future use residential acreage:

Future use commercial acreage:

Future use industrial acreage:

Future use industrial acreage:

Future use industrial acreage:

Future Use: Multistory

Past Use: Multistory

-

Property Description: Historic industrial use with USTs; recently utilized for various

equipment storage

Below Poverty Number: 786 Below Poverty Percent: 43.4 Meidan Income: 4802 Meidan Income Number: 1310 Meidan Income Percent: 72.34 Vacant Housing Number: 59 Vacant Housing Percent: 11.05 **Unemployed Number:** 144 **Unemployed Percent:** 7.95

FINDS:

Registry ID: 110046371298

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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

Direction Distance

Elevation Site Database(s) **EPA ID Number**

JA QUINN TRUST (Continued)

1016370671

EDR ID Number

well as information on Targeted Brownfields Assessments (TBA) performed by EPA Regions.

The California Environmental Protection Agency (CalEPA) has recently implemented a new data warehouse system (nSite). This data warehouse combines and merges facility and site information from five different systems managed within CalEPA. The five systems are: California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxic Release Inventory (TRI).

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

J.A. QUINN TRUST 1029004373 J51 **UST FINDER RELEASE** N/A

1366 N ST West

1/4-1/2 FIREBAUGH, CA 93622

0.352 mi.

1856 ft. Site 3 of 5 in cluster J

UST FINDER RELEASE: Relative:

Higher Object ID: 53522 Facility ID: Not reported Actual: 152 ft. Lust ID: CAT0601900549 Name: J.A. QUINN TRUST

> 1366 N ST Address:

City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 579 Domestic Wells within 1500ft:

Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 GW - Ground water WHPA Water Type:

WHPA Facility Type: WL - Well WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Not reported Tribe:

EPA Region:

NFA Letter 1: Not reported Not reported NFA Letter 2: Not reported NFA Letter 3: NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode

X Coord: -120.45477 Y Coord: 36.85547

Latitude: 36.8554699999999 Longitude: -120.454769999999

Direction Distance

1856 ft.

Elevation Site Database(s) EPA ID Number

J52 QUALITY MACHINERY CENTER LUST S104870307

West 1366 N ST Cortese N/A

1/4-1/2 FIREBAUGH, CA 93622 CUPA Listings 0.352 mi. CUPA Listings

Relative: LUST:

Site 4 of 5 in cluster J

Higher Name: QUALITY MACHINERY CENTER

Actual: Address: 1366 N ST

152 ft. City,State,Zip: FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900310

Global Id: T0601900310
Latitude: 36.8550929
Longitude: -120.454737

Status: Completed - Case Closed

Status Date: 01/08/1996
Case Worker: JWH
RB Case Number: 5T10000314
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: FA0266736

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region: 9

Coordinate Source: Google Geocode

Cuf Case: YES

Quantity Released Gallons: Not reported Begin Date: 01/08/1991 Leak Reported Date: 05/06/1991 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Not reported Stop Description: No Further Action Date: 01/08/1996

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community: Severely Disadvantaged Community

CA Enviroscreen 3 Score: 81-85%
CA Enviroscreen 4 Score: 90-95%
Military DOD Site: No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

Global Id: T0601900310

Contact Type: Local Agency Caseworker

Contact Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV

Organization Name: FRESNO COUNTY Address: FRESNO COUNTY

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900310

Contact Type: Regional Board Caseworker - Primary Caseworker

EDR ID Number

CERS

Direction Distance

Elevation Site Database(s) EPA ID Number

QUALITY MACHINERY CENTER (Continued)

S104870307

EDR ID Number

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: FRESNO

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

 Global Id:
 T0601900310

 Action Type:
 Other

 Date:
 05/06/1991

 Action:
 Leak Discovery

 Global Id:
 T0601900310

 Action Type:
 Other

 Date:
 05/06/1991

 Action:
 Leak Reported

 Global Id:
 T0601900310

 Action Type:
 Other

 Date:
 01/08/1991

 Action:
 Leak Stopped

LUST:

Global Id: T0601900310

Status: Open - Case Begin Date

Status Date: 01/08/1991

Global Id: T0601900310

Status: Open - Site Assessment

Status Date: 06/16/1994

Global Id: T0601900310

Status: Completed - Case Closed

Status Date: 01/08/1996

Name: J.A. QUINN TRUST

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900549

Global Id: T0601900549
Latitude: 36.8550929
Longitude: -120.454737

Status: Completed - Case Closed

Status Date: 05/05/2000
Case Worker: JWH
RB Case Number: 5T10000566
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: FA0266736

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline EPA Region: 9

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUALITY MACHINERY CENTER (Continued)

S104870307

Coordinate Source: Google Geocode

NO Cuf Case: Quantity Released Gallons: Not reported Begin Date: 06/14/1995 Leak Reported Date: 06/19/1995 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Stop Description: Not reported No Further Action Date: 05/05/2000

Delta-Mendota Canal - Los Banos (541.20) CA Water Watershed Name: Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community: Not reported CA Enviroscreen 3 Score: 76-80% 90-95% CA Enviroscreen 4 Score: Military DOD Site: No

Facility Project Subtype: Not reported

CENTRAL VALLEY RWQCB (REGION 5F) RWQCB Region:

Site History: Not reported

LUST:

Global Id: T0601900549

Local Agency Caseworker Contact Type:

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV Contact Name:

Organization Name: FRESNO COUNTY Address: 1221 Fulton Street

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900549

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET

FRESNO City:

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

Global Id: T0601900549 Action Type: **ENFORCEMENT** Date: 04/13/2000

Closure/No Further Action Letter Action:

Global Id: T0601900549 Action Type: Other 06/14/1995 Date: Action: Leak Discovery

Global Id: T0601900549 Action Type: Other 06/19/1995 Date: Action: Leak Reported

Direction Distance

Elevation Site Database(s) EPA ID Number

QUALITY MACHINERY CENTER (Continued)

S104870307

EDR ID Number

LUST:

Global Id: T0601900549

Status: Open - Case Begin Date

Status Date: 06/14/1995

Global Id: T0601900549

Status: Open - Site Assessment

Status Date: 06/19/1995

Global Id: T0601900549

Status: Open - Site Assessment

Status Date: 11/23/1999

Global Id: T0601900549

Status: Completed - Case Closed

Status Date: 05/05/2000

LUST REG 5:

Name: J.A. QUINN TRUST

Address: 1366 N ST City: FIREBAUGH Region: 5

Status: Case Closed Case Number: 5T10000566

Case Type: Drinking Water Aquifer affected

Substance: GASOLINE
Staff Initials: JWH
Lead Agency: Regional
Program: LUST
MTBE Code: 1

Name: QUALITY MACHINERY CENTER

Address: 1366 N ST City: FIREBAUGH

Region: 5

Status: Case Closed Case Number: 5T10000314

Case Type: Drinking Water Aquifer affected

Substance: GASOLINE
Staff Initials: JWH
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

CORTESE:

Name: J.A. QUINN TRUST

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900549

Site/Facility Type: LUST CLEANUP SITE

Cleanup Status: COMPLETED - CASE CLOSED

Status Date: Not reported Site Code: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

QUALITY MACHINERY CENTER (Continued)

S104870307

EDR ID Number

Latitude: Not reported Not reported Longitude: Owner: Not reported Enf Type: Not reported Swat R: Not reported Flag: active Not reported Order No: Not reported Waste Discharge System No: 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

Name: QUALITY MACHINERY CENTER

Address: 1366 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900310

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

CUPA FRESNO:

Name: J A QUINN TRUST

Address: 1366 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0266736
APM Number: 00814034

Program Element: UST REMOVAL/CLOSURE W/3 TANKS

Name: J A QUINN TRUST

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0266736
APM Number: 00814034

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

QUALITY MACHINERY CENTER (Continued)

S104870307

Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

HIST CORTESE:

edr_fname: J.A. QUINN TRUST

edr_fadd1: 1366 N

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Facility County Code: 10 Reg By: LTNKA Reg Id: 5T10000566

edr_fname: QUALITY MACHINERY CENTER

edr_fadd1: 1366 N

FIREBAUGH, CA 93622 City,State,Zip:

Region: CORTESE Facility County Code: 10 Reg By: **LTNKA** Reg Id: 5T10000314

CERS:

J.A. QUINN TRUST Name:

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 738124 CERS ID: T0601900549

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - FRESNO COUNTY Entity Name:

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:

Affiliation Type Desc: Regional Board Caseworker

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title: Not reported Affiliation Address: 1685 E STREET Affiliation City: **FRESNO** Affiliation State:

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

Name: **QUALITY MACHINERY CENTER**

Address: 1366 N ST

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 754969 CERS ID: T0601900310

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

QUALITY MACHINERY CENTER (Continued)

S104870307

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:

Affiliation Type Desc: Regional Board Caseworker

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title:

Affiliation Address:

Affiliation City:

Affiliation State:

Affiliation Country:

Not reported

FRESNO

CA

Not reported

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone: ,

 J53
 VACANT LOT/FORMER MOTEL
 US BROWNFIELDS
 1016370654

 WNW
 1339/1347 N STREET
 FINDS
 N/A

1/4-1/2 FIREBAUGH, CA 93662

0.355 mi.

1876 ft. Site 5 of 5 in cluster J

Relative: US BROWNFIELDS:

Higher Name: VACANT LOT/FORMER MOTEL

Actual: Address: 1339/1347 N STREET

151 ft. Recipient name: Firebaugh, City of
Grant type: Assessment

Property Number: 008-132-10 Parcel size: 0.3

Latitude: 36.855918000000003

Longitude: -120.454553

Highlights: Former Use: Former Motel. North adjacent property is active LUST site. Subsurface soil vapor impacted by benzene, ethylbenzene,

tetrachloroethene.

Start Date: -

Redev Completition Date:

Completed Date:

Acres Cleaned Up:
Cleanup Funding:
Cleanup Funding Source:

Assessment Funding:
Assessment Funding:
Assessment Funding:

Redevelopment Funding:

Redev. Funding Source:

Redev. Funding Entity Name:

Redevelopment Start Date:

Assessment Funding Entity:

Fead

Grant Type: Hazardous

Cleanup Funding Entity:

Accomplishment Type: Phase II Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 9/28/2010
Ownership Entity: Government

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

VACANT LOT/FORMER MOTEL (Continued)

1016370654

Completion Date: 12/6/2010 Current Owner: City of Firebaugh

Cleanup Required: Video Available: Ν Photo Available: Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: Past use commercial acreage: 0.3 Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: 0.3 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Former Motel. North adjacent property is active LUST site. Subsurface

soil vapor impacted by benzene, ethylbenzene, tetrachloroethene.

Below Poverty Number: 817 Below Poverty Percent: 43.88 Meidan Income: 5107 1351 Meidan Income Number: 72.56 Meidan Income Percent: Vacant Housing Number: 62 Vacant Housing Percent: 11.24 Unemployed Number: 149 Unemployed Percent: 8

VACANT LOT/FORMER MOTEL Name:

Address: 1339/1347 N STREET Recipient name: Firebaugh, City of Grant type: Assessment Property Number: 008-132-10

Parcel size: 0.3

Latitude: 36.855918000000003

Longitude: -120.454553

Former Use: Former Motel. North adjacent property is active LUST Highlights:

site. Subsurface soil vapor impacted by benzene, ethylbenzene,

tetrachloroethene.

Start Date: Redev Completition Date: Completed Date:

Acres Cleaned Up: Cleanup Funding:

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

VACANT LOT/FORMER MOTEL (Continued)

1016370654

EDR ID Number

Cleanup Funding Source: 5000 Assessment Funding: Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA** Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 1/25/2010 Ownership Entity: Government Completion Date: 3/9/2010 Current Owner: City of Firebaugh

Cleanup Required: Video Available: Ν Photo Available: Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: 0.3 Past use commercial acreage: Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: 0.3 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Former Motel. North adjacent property is active LUST site. Subsurface

soil vapor impacted by benzene, ethylbenzene, tetrachloroethene.

Below Poverty Number: 817 Below Poverty Percent: 43.88 Meidan Income: 5107 Meidan Income Number: 1351 Meidan Income Percent: 72.56 Vacant Housing Number: 62 Vacant Housing Percent: 11.24 **Unemployed Number:** 149 **Unemployed Percent:** 8

FINDS:

Registry ID: 110046371118

Direction Distance

Elevation Site Database(s) EPA ID Number

VACANT LOT/FORMER MOTEL (Continued)

1016370654

EDR ID Number

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

 K54
 APARTMENTS - 1264 P STREET
 US BROWNFIELDS
 1016370650

 WNW
 1264 P STREET
 FINDS
 N/A

1/4-1/2 FIREBAUGH, CA 93662

0.368 mi.

1944 ft. Site 1 of 2 in cluster K Relative: US BROWNFIELDS:

Higher Name: APARTMENTS - 1264 P STREET

Actual: Address: 1264 P STREET

149 ft. Recipient name: Firebaugh, City of
Grant type: Assessment
Property Number: 008-075-11

Parcel size: 0.52
Latitude: 36.857581000000003

Redevelopment Start Date: Assessment Funding Entity:

Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

EPA

Cooperative Agreement Number: Not reported
Start Date: 6/29/2010
Ownership Entity: Government
Completion Date: 9/3/2010
Current Owner: City of Firebaugh

Cleanup Required: Y
Video Available: N
Photo Available: Y
Institutional Controls Required: N
IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: -

IC in place date:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

APARTMENTS - 1264 P STREET (Continued)

1016370650

IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: 0.52 Past use residential acreage: Past use commercial acreage: Past use industrial acreage: Future use greenspace acreage: Future use residential acreage: Future use commercial acreage: Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Apartments/City of Firebaugh

Below Poverty Number: 395 Below Poverty Percent: 38.95 Meidan Income: 2874 Meidan Income Number: 742 Meidan Income Percent: 73.18 Vacant Housing Number: 51 Vacant Housing Percent: 14.24 **Unemployed Number:** 104 **Unemployed Percent:** 10.26

FINDS:

110046371010 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

CLIFF'S EXXON S103964373 L55 LUST WNW 1307 N ST **CERS TANKS** N/A

1/4-1/2 FIREBAUGH, CA 93622 **CUPA Listings** 0.371 mi. HIST CORTESE 1957 ft. Site 1 of 3 in cluster L **CERS**

Relative: LUST: Higher Name: CLIFF'S EXXON 1307 N ST Address: Actual:

City,State,Zip: FIREBAUGH, CA 93622 151 ft.

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: **LUST Cleanup Site**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900511

T0601900511 Global Id: Latitude: 36.8564137

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued) \$103964373

Longitude: -120.4547701

Status: Completed - Case Closed

Status Date: 02/05/2013
Case Worker: JWH
RB Case Number: 5T10000528
Local Agency: Not reported
File Location: Regional Board
Local Case Number: FA0170180

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region: 9

Coordinate Source: * Historical Geocode - Exact Address Match

Cuf Case: YES

Quantity Released Gallons: Not reported 10/24/1994 Begin Date: 10/27/1994 Leak Reported Date: How Discovered: Other Means How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Stop Description: Not reported No Further Action Date: 02/05/2013

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)

Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community:

CA Enviroscreen 3 Score:

CA Enviroscreen 4 Score:

Military DOD Site:

No
Facility Project Subtype:

Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

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.

LUST:

Global Id: T0601900511

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: FRESNO

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 03/27/2003

Action: Site Visit / Inspection / Sampling

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

S103964373

Global Id: T0601900511 **ENFORCEMENT** Action Type: 08/21/2003 Date: Action: Staff Letter

Global Id: T0601900511 **ENFORCEMENT** Action Type: Date: 10/23/2003 Action: Staff Letter

T0601900511 Global Id: Action Type: **ENFORCEMENT** Date: 07/17/2003 Action: Staff Letter

Global Id: T0601900511 **ENFORCEMENT** Action Type: Date: 01/19/2012 Action: Staff Letter

Global Id: T0601900511 Action Type: **ENFORCEMENT** Date: 06/20/2012

Action: Notification - Preclosure

Global Id: T0601900511 Action Type: Other Date: 10/24/1994 Action: Leak Discovery

Global Id: T0601900511 Action Type: **RESPONSE** Date: 05/01/2007

Action: Monitoring Report - Quarterly

Global Id: T0601900511 Action Type: **RESPONSE** Date: 05/01/2007

Monitoring Report - Quarterly Action:

T0601900511 Global Id: Action Type: **RESPONSE** Date: 08/01/2010

Monitoring Report - Semi-Annually Action:

Global Id: T0601900511 Action Type: **RESPONSE** Date: 02/01/2011

Action: Monitoring Report - Semi-Annually

T0601900511 Global Id: Action Type: **RESPONSE** Date: 05/01/2011

Action: Monitoring Report - Quarterly

Global Id: T0601900511 Action Type: **RESPONSE**

Direction Distance Elevation

nce EDR ID Number ation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

Date: 08/01/2011

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 REMEDIATION

 Date:
 01/15/2000

 Action:
 Excavation

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 09/11/2002

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 10/28/2005

 Action:
 Warning Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/16/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/11/2002

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 04/20/2007

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 09/01/2009

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 09/20/2011

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/14/2011

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 01/31/2003

Action: Other Report / Document

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 02/28/2003

Action: Corrective Action Plan / Remedial Action Plan

Distance Elevation Site

Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

EDR ID Number

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 10/15/2002

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 11/01/2006

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 10/19/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 04/11/2006

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 06/16/2006

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 09/16/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 06/16/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 08/23/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 10/31/2007

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 10/11/2007

 Action:
 Meeting

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 07/27/2009

 Action:
 Staff Letter

Global Id: T0601900511
Action Type: ENFORCEMENT

Direction Distance Elevation

evation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

EDR ID Number

Date: 05/23/2012 Action: Staff Letter

 Global Id:
 T0601900511

 Action Type:
 Other

 Date:
 10/27/1994

 Action:
 Leak Reported

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 11/02/2009

Action: Other Report / Document

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 05/01/2009

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 09/15/2005

Action: Other Report / Document

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2007

Action: NPDES / WDR Reports

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 01/17/2006

Action: CAP/RAP - Feasibility Study Report

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 05/15/2006

Action: Interim Remedial Action Plan

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2006

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 11/01/2007

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 05/01/2006

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 02/01/2007

Action: Other Report / Document

Direction Distance Flevation

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

EDR ID Number

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2006

Action: Soil and Water Investigation Report

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 02/01/2006

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 REMEDIATION

 Date:
 06/22/2004

Action: In Situ Physical/Chemical Treatment (other than SVE)

 Global Id:
 T0601900511

 Action Type:
 REMEDIATION

 Date:
 04/12/2006

 Action:
 Not reported

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/02/2004

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 02/18/2005

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 02/23/2006

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 03/29/2006

 Action:
 Meeting

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 03/20/2006

 Action:
 Meeting

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/20/2005

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/22/2005

Action: Site Visit / Inspection / Sampling

Global Id: T0601900511
Action Type: ENFORCEMENT

Direction
Distance

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued) \$103964373

Date: 10/24/2005

Action: Site Visit / Inspection / Sampling

Global Id: T0601900511
Action Type: ENFORCEMENT
Date: 10/27/2005

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 02/17/2006

 Action:
 Meeting

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 01/31/2006

 Action:
 Meeting

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 02/24/2006

Action: Technical Correspondence / Assistance / Other

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 10/07/2008

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 02/05/2013

Action: Closure/No Further Action Letter

Global Id: T0601900511
Action Type: ENFORCEMENT
Date: 03/25/2010

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 12/21/2011

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0601900511
Action Type: ENFORCEMENT
Date: 02/03/2011

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0601900511
Action Type: ENFORCEMENT
Date: 02/03/2011

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0601900511
Action Type: RESPONSE
Date: 11/01/2008

Action: Monitoring Report - Quarterly

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

S103964373

Global Id: T0601900511 RESPONSE Action Type: Date: 02/01/2009

Action: Monitoring Report - Quarterly

Global Id: T0601900511 **RESPONSE** Action Type: Date: 03/03/2008

Action: CAP/RAP - Feasibility Study Report

Global Id: T0601900511 **RESPONSE** Action Type: Date: 11/01/2005

Action: Monitoring Report - Quarterly

Global Id: T0601900511 **RESPONSE** Action Type: 11/01/2006 Date:

Action: Other Report / Document

Global Id: T0601900511 **RESPONSE** Action Type: Date: 02/07/2006

Action: CAP/RAP - Feasibility Study Report

Global Id: T0601900511 Action Type: **RESPONSE** Date: 07/02/2007

Action: CAP/RAP - Other Report

Global Id: T0601900511 Action Type: **RESPONSE** Date: 07/24/2006

Action: Interim Remedial Action Plan

Global Id: T0601900511 Action Type: **RESPONSE** Date: 08/01/2009

Action: Monitoring Report - Semi-Annually

Global Id: T0601900511 Action Type: **RESPONSE** Date: 11/21/2005

Other Report / Document Action:

Global Id: T0601900511 Action Type: **RESPONSE** Date: 02/01/2010

Action: Monitoring Report - Semi-Annually

T0601900511 Global Id: Action Type: **ENFORCEMENT** Date: 04/21/2004

Action: Site Visit / Inspection / Sampling

Global Id: T0601900511 Action Type: **ENFORCEMENT**

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

Date: 06/21/2004

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 06/23/2004

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 06/10/2004

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 04/13/2005

Action: Site Visit / Inspection / Sampling

 Global Id:
 T0601900511

 Action Type:
 ENFORCEMENT

 Date:
 07/25/2012

 Action:
 Staff Letter

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2008

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/15/2003

Action: Corrective Action Plan / Remedial Action Plan

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 09/30/2003

Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0601900511
Action Type: RESPONSE
Date: 11/01/2004

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2004

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 03/01/2005

Action: CAP/RAP - Feasibility Study Report

 Global Id:
 T0601900511

 Action Type:
 RESPONSE

 Date:
 08/01/2005

Action: Soil and Water Investigation Report

EDR ID Number

S103964373

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

S103964373

Global Id: T0601900511 RESPONSE Action Type: 10/07/2005 Date:

Action: Other Report / Document

Global Id: T0601900511 **RESPONSE** Action Type: Date: 05/03/2004

Action: Soil and Water Investigation Report

Global Id: T0601900511 **RESPONSE** Action Type: Date: 02/01/2008

Action: Monitoring Report - Quarterly

Global Id: T0601900511 **RESPONSE** Action Type: 05/01/2004 Date:

Action: Monitoring Report - Quarterly

Global Id: T0601900511 **RESPONSE** Action Type: Date: 05/01/2008

Action: Monitoring Report - Quarterly

Global Id: T0601900511 Action Type: **RESPONSE** Date: 08/01/2011

Action: Monitoring Report - Other

Global Id: T0601900511 Action Type: **RESPONSE** Date: 08/01/2011

Action: Monitoring Report - Quarterly

Global Id: T0601900511 Action Type: **RESPONSE** Date: 12/01/2011

Soil and Water Investigation Report Action:

T0601900511 Global Id: Action Type: **RESPONSE** Date: 03/14/2012

Soil and Water Investigation Report Action:

Global Id: T0601900511 Action Type: **RESPONSE** Date: 06/25/2012

Action: Other Report / Document

T0601900511 Global Id: Action Type: **RESPONSE** 09/25/2012 Date:

Well Destruction Report Action:

LUST:

T0601900511 Global Id:

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued) \$103964373

Status: Open - Case Begin Date

Status Date: 10/24/1994

Global Id: T0601900511

Status: Open - Site Assessment

Status Date: 10/27/1994

Global Id: T0601900511

Status: Open - Verification Monitoring

Status Date: 09/01/2000

Global Id: T0601900511 Status: Open - Remediation

Status Date: 10/14/2003

Global Id: T0601900511
Status: Open - Remediation

Status Date: 12/03/2007

Global Id: T0601900511

Status: Completed - Case Closed

Status Date: 02/05/2013

CERS TANKS:

Name: FIREBAUGH MART

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Site ID: 425991 CERS ID: 10696531

CERS Description: Underground Storage Tank

CUPA FRESNO:

Name: FIREBAUGH MART

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: THIRTEENTH
Facility ID: FA0170180
APM Number: 00813218

Program Element: UST FACILITY WITH 1 TO 3 TANKS

Name: FIREBAUGH MART

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

 Region:
 FRESNO

 Cross Street:
 THIRTEENTH

 Facility ID:
 FA0170180

 APM Number:
 00813218

Program Element: FORMER CONTAMINATED SITE/NO FURTHER ACTION

Name: FIREBAUGH MART

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: THIRTEENTH

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

EDR ID Number

Facility ID: FA0170180 APM Number: 00813218

Program Element: MV FUEL/OIL/PROPANE ONLY IN AGST/UST MODEL PL

Name: FIREBAUGH MART Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: THIRTEENTH
Facility ID: FA0170180
APM Number: 00813218

Program Element: UST REMOVAL/CLOSURE W/4 TANKS

HIST CORTESE:

edr_fname: CLIFF'S EXXON edr_fadd1: 1307 N

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Facility County Code: 10
Reg By: LTNKA
Reg Id: 5T10000528

CERS:

Name: FIREBAUGH MART

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 425991 CERS ID: 10696531

CERS Description: Chemical Storage Facilities

Violations:

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-20-2017

Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7,

Section(s) 25284

Violation Description: Failure to obtain a valid permit to operate from the CUPA.

Violation Notes: Returned to compliance on 04/19/2017.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: UST CERS,

Site ID: 425991

Site Name: FIREBAUGH MART Violation Date: 03-05-2015

Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

Chapter 6.75, Section(s) 25299.30-25299.34

Violation Description: Failure to submit and maintain complete and current Certification of

Financial Responsibility or other mechanism of financial assurance.

Violation Notes: Returned to compliance on 03/16/2015.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-05-2015

Map ID MAP FINDINGS
Direction

Distance EDR ID Number
Elevation Site EPA ID Number

CLIFF'S EXXON (Continued) \$103964373

Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95,

Section(s) 25508(d)

Violation Description: Failure to complete and/or electronically submit a business plan when

storing/handling a hazardous material at or above reportable

quantities.

Violation Notes: Returned to compliance on 05/04/2015.
Violation Division: Fresno County Department of Public Health

Violation Program: HMRRP Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-20-2017

Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

Chapter 6.75, Section(s) 25299.30-25299.34

Violation Description: Failure to submit and maintain complete and current Certification of

Financial Responsibility or other mechanism of financial assurance.

Violation Notes: Returned to compliance on 04/19/2017.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-05-2015

Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7,

Section(s) 25284

Violation Description: Failure to obtain and maintain a valid operation permit from the CUPA.

Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-20-2017

Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter

16, Section(s) 2712(i)

Violation Description: Failure to have a UST Monitoring Plan available on site.

Violation Notes: Returned to compliance on 04/19/2017.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-15-2022

Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23,

Chapter 16, Section(s) 2636(f)(2)

Violation Description: Failure of the functional line leak detector (LLD) monitoring

pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is

detected.

Violation Notes: 45. VIOLATION: Failure of the functional line leak detector (LLD)

monitoring pressurized piping to meet one or more of the following

Direction Distance Elevation

vation Site Database(s) EPA ID Number

CLIFF'S EXXON (Continued)

S103964373

EDR ID Number

requirements: Monitored with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch within an hour and restrict or shut off the flow of product through the piping when a leak is detected. (23 CCR 16 2636(f)(2)) OBSERVATION: Line leak detector failed to meet one or more of the following requirements: Monitor at least hourly; Capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g.; Restricting or shutting off the flow of product through the piping when a leak is detected. CORRECTIVE ACTION: Repair or replace line leak detector (specify tank) so that is

ACTION: Repair or replace line leak detector (specify tank) so that it is capable of monitoring at least hourly, detecting a release of 3.0 gallons per hour at 10 p.s.i.g., and restricting or shutting off the flow of product through the piping when a leak is detected.

Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-13-2014

Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

Chapter 6.75, Section(s) 25299.30-25299.34

Violation Description: Failure to submit and maintain complete and current Certification of

Financial Responsibility or other mechanism of financial assurance.

Violation Notes: Returned to compliance on 03/16/2015.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-05-2015

Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16,

Section(s) 2637

Violation Description: Failure to comply with one or more of the following: conduct secondary

containment testing, within six months of installation and every 36 months thereafter, conducted in accordance with proper practices,

protocols, or test methods.

Violation Notes: Returned to compliance on 03/20/2015.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Site ID: 425991

Site Name: FIREBAUGH MART

Violation Date: 03-20-2017

Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter

16, Section(s) 2712(i)

Violation Description: Failure to have a UST Response Plan available on site.

Violation Notes: Returned to compliance on 04/19/2017.
Violation Division: Fresno County Department of Public Health

Violation Program: UST Violation Source: CERS,

Evaluation:

Eval General Type: Compliance Evaluation Inspection

Eval Date: 02-28-2023

Violations Found: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued) S103964373

Eval Type: Routine done by local agency **Eval Notes:** No violations noted at time of inspection,

Eval Division: Fresno County Department of Public Health

Eval Program: UST **Eval Source:** CERS,

Eval General Type: Compliance Evaluation Inspection

03-15-2022 Eval Date: Violations Found: Yes

Eval Type: Routine done by local agency

Eval Notes: Annual Monitoring System Certification 87 Octane line leak detector

failed and was replaced and retested to obtain passing results. All

violations corrected onsite.

Eval Division: Fresno County Department of Public Health

Eval Program: UST Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

Eval Date: 03-21-2016

Violations Found: No

Eval Type: Routine done by local agency

Eval Notes: MC

Eval Division: Fresno County Department of Public Health

Eval Program: UST CERS, Eval Source:

Eval General Type: Compliance Evaluation Inspection

Eval Date: 03-29-2018

Violations Found:

Eval Type: Routine done by local agency

Eval Notes: MC

Eval Division: Fresno County Department of Public Health

Eval Program: Eval Source: CERS.

Eval General Type: Compliance Evaluation Inspection

03-05-2015 Eval Date: Violations Found:

Eval Type: Routine done by local agency

Eval Notes: MC

Eval Division: Fresno County Department of Public Health

Eval Program: UST CERS, **Eval Source:**

Eval General Type: Compliance Evaluation Inspection

03-13-2014 Eval Date:

MC

Violations Found: Yes

Eval Type: Routine done by local agency

Eval Notes:

Eval Division: Fresno County Department of Public Health

Eval Program: UST **Eval Source:** CERS,

Eval General Type: Compliance Evaluation Inspection

Eval Date: 03-05-2015 Violations Found: Yes

Eval Type: Routine done by local agency

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

S103964373

BP INSPECTION Eval Notes:

Eval Division: Fresno County Department of Public Health

Eval Program: **HMRRP** Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

03-20-2017 Eval Date: Violations Found: Yes

Eval Type: Routine done by local agency

Eval Notes: MC

Eval Division: Fresno County Department of Public Health

Eval Program: UST CERS, **Eval Source:**

Coordinates:

Site ID: 425991

FIREBAUGH MART Facility Name:

Env Int Type Code: **HMBP** Program ID: 10696531 Coord Name: Not reported

Ref Point Type Desc: Entrance point of a facility or station,

Latitude: 36.856133 Longitude: -120.454760

Affiliation:

Affiliation Type Desc: Identification Signer **Entity Name:** Charanjit Singh Entity Title: Member Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

Affiliation Type Desc: **UST Property Owner Name**

Entity Name: Firebaugh Mart LLC Entity Title: Not reported Affiliation Address: 1307 N Street Affiliation City: Firebaugh Affiliation State: CA

Affiliation Country: **United States** Affiliation Zip: 93622

Affiliation Phone: (559) 659-6904,

Affiliation Type Desc: **UST Tank Operator** Entity Name: Firebaugh Mart LLC Entity Title: Not reported

Affiliation Address: 1307 N Street Affiliation City: Firebaugh Affiliation State: CA Affiliation Country: **United States** Affiliation Zip: 93622

Affiliation Phone: (559) 659-6904,

Affiliation Type Desc: Facility Mailing Address

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

S103964373

Entity Name: Mailing Address Entity Title: Not reported Affiliation Address: 1307 N Street Affiliation City: Firebaugh Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 93622 Affiliation Phone:

Affiliation Type Desc: **CUPA District**

Entity Name: Fresno County Community Health Department

Entity Title: Not reported

Affiliation Address: 1221 Fulton St., 3rd FloorP.O. Box 11867

Affiliation City: Fresno Affiliation State: Not reported Affiliation Country: Affiliation Zip: 93775

Affiliation Phone: (559) 600-3271,

Affiliation Type Desc: **Document Preparer**

Entity Name: June Milner Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Not reported Affiliation State: Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

Affiliation Type Desc: **Environmental Contact** Entity Name: **CHARANJIT SINGH**

Not reported **Entity Title:** Affiliation Address: 1307 N Street Affiliation City: Firebaugh Affiliation State:

Affiliation Country: Not reported Affiliation Zip: 93622

Affiliation Phone:

Affiliation Type Desc: Legal Owner Entity Name: Firebaugh Mart LLC Entity Title: Not reported Affiliation Address: 1307 N Street Affiliation City: Firebaugh

Affiliation State: CA

Affiliation Country: **United States** Affiliation Zip: 93622

Affiliation Phone: (559) 659-6904,

Affiliation Type Desc: Operator

Entity Name: CHARANJIT SINGH

Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Affiliation Country: Not reported Affiliation Zip: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFF'S EXXON (Continued)

Affiliation Phone: (559) 232-2007,

Affiliation Type Desc: Parent Corporation Entity Name: FIREBAUGH MART **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:

Affiliation Type Desc: **UST Tank Owner Entity Name:** Firebaugh Mart LLC Entity Title: Not reported Affiliation Address: 1307 N Street Affiliation City: Firebaugh Affiliation State: CA

United States Affiliation Country: 93622 Affiliation Zip:

Affiliation Phone: (559) 659-6904,

L56 **CLIFFS EXXON** LUST U001588123 WNW **SWEEPS UST** 1307 N ST N/A 1/4-1/2 FIREBAUGH, CA 93622 **HIST UST**

0.371 mi.

1957 ft. Site 2 of 3 in cluster L

Relative: LUST REG 5:

Higher Name: CLIFF'S EXXON Address: 1307 N ST Actual: **FIREBAUGH** 151 ft. City:

Region:

Status: Remedial action (cleanup) Underway

Case Number: 5T10000528

Case Type: Drinking Water Aquifer affected

GASOLINE Substance: JWH Staff Initials: Lead Agency: Regional Program: LUST MTBE Code: N/A

SWEEPS UST:

Name: **CLIFFS EXXON** Address: 1307 N ST City: **FIREBAUGH** Status: Active Comp Number: 14927 Number:

Board Of Equalization: Not reported Referral Date: 07-05-90 07-05-90 Action Date: Created Date: 07-05-90 Owner Tank Id: Not reported

SWRCB Tank Id: 10-000-014927-000001

Tank Status: Α Cortese

EMI

S103964373

Direction
Distance

Elevation Site Database(s) EPA ID Number

CLIFFS EXXON (Continued)

U001588123

EDR ID Number

 Capacity:
 1000

 Active Date:
 07-05-90

 Tank Use:
 M.V. FUEL

 STG:
 P

 Content:
 DIESEL

 Number Of Tanks:
 4

Name: CLIFFS EXXON
Address: 1307 N ST
City: FIREBAUGH
Status: Active
Comp Number: 14927
Number: 2

Board Of Equalization: Not reported Referral Date: 07-05-90 Action Date: 07-05-90 Created Date: 07-05-90 Owner Tank Id: Not reported

SWRCB Tank ld: 10-000-014927-000002

 Tank Status:
 A

 Capacity:
 3000

 Active Date:
 07-05-90

 Tank Use:
 M.V. FUEL

STG: P
Content: REG UNLEADED

Number Of Tanks: REG UNLEADER

Not reported

Name: CLIFFS EXXON
Address: 1307 N ST
City: FIREBAUGH
Status: Active
Comp Number: 14927
Number: 2

Board Of Equalization: Not reported Referral Date: 07-05-90 Action Date: 07-05-90 Created Date: 07-05-90 Owner Tank Id: Not reported

SWRCB Tank Id: 10-000-014927-000003

 Tank Status:
 A

 Capacity:
 6000

 Active Date:
 07-05-90

 Tank Use:
 M.V. FUEL

STG: P

Content: REG UNLEADED Number Of Tanks: Not reported

Name: CLIFFS EXXON
Address: 1307 N ST
City: FIREBAUGH
Status: Active
Comp Number: 14927
Number: 2

Board Of Equalization: Not reported Referral Date: 07-05-90 Action Date: 07-05-90 Created Date: 07-05-90

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFFS EXXON (Continued)

U001588123

EDR ID Number

Owner Tank Id: Not reported

SWRCB Tank ld: 10-000-014927-000004

 Tank Status:
 A

 Capacity:
 8000

 Active Date:
 07-05-90

 Tank Use:
 M.V. FUEL

STG: F

Content: LEADED
Number Of Tanks: Not reported

HIST UST:

Name: CLIFFS EXXON Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

File Number: 00023d7a

URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/00023d7a.pdf

Region: STATE
Facility ID: 00000014930
Facility Type: Gas Station
Other Type: Not reported
Contact Name: MARV DENNIS
Telephone: 2096592493

Owner Name: CURRIE PROPERTIES, INC.

Owner Address: 3217 E. LORENA Owner City,St,Zip: FRESNO, CA 93725

Total Tanks: 0004

Tank Num: 001 Container Num: 100

Year Installed:

Tank Capacity:

Tank Used for:

Type of Fuel:

Container Construction Thickness:

Leak Detection:

Not reported

UNLEADED

Not reported

Stock Inventor

Tank Num: 002 Container Num: 101

Year Installed:

Tank Capacity:

Tank Used for:

Type of Fuel:

Container Construction Thickness:

Leak Detection:

Not reported

REGULAR

Not reported

Stock Inventor

Tank Num: 003 Container Num: 102

Year Installed:

Tank Capacity:

Tank Used for:

Type of Fuel:

Container Construction Thickness:

Leak Detection:

Not reported

PREMIUM

Not reported

Stock Inventor

Tank Num: 004 Container Num: 103

Year Installed: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFFS EXXON (Continued) U001588123

Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CORTESE:

Name: CLIFF'S EXXON Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900511

Site/Facility Type: LUST CLEANUP SITE

Cleanup Status: COMPLETED - CASE CLOSED

Status Date: Not reported Site Code: Not reported Not reported Latitude: Longitude: Not reported Not reported Owner: Enf Type: Not reported Swat R: Not reported Flag: active Order No: Not reported Not reported Waste Discharge System No: Effective Date: Not reported Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported Active Open File Name:

EMI:

Name: FIREBAUGH GAS & MINI MART

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

 Year:
 2002

 County Code:
 10

 Air Basin:
 SJV

 Facility ID:
 2140

 Air District Name:
 SJU

 SIC Code:
 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFFS EXXON (Continued) U001588123

Address: 1307 N ST

FIREBAUGH, CA 93622 City,State,Zip:

2003 Year: County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

SAN JOAQUIN VALLEY UNIFIED APCD Air District Name:

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0 Reactive Organic Gases Tons/Yr: 0 Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: n Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

2004 Year: County Code: 10 SJV Air Basin: Facility ID: 2140 Air District Name: SJU SIC Code: 5541

SAN JOAQUIN VALLEY UNIFIED APCD Air District Name:

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 0.375329898 Reactive Organic Gases Tons/Yr: 0.373461478

Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

FIREBAUGH, CA 93622 City, State, Zip:

Year: 2005 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

.2588132187819253075 Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: .25744426126098568

Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFFS EXXON (Continued) U001588123

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Year: 2006 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: .1728831232058129062 Reactive Organic Gases Tons/Yr: .17196868130493169

Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

FIREBAUGH, CA 93622 City,State,Zip:

Year: 2007 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

.1728831232058129062 Total Organic Hydrocarbon Gases Tons/Yr: Reactive Organic Gases Tons/Yr: .17196868130493169

Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

Year: 2008 County Code: 10 Air Basin: SJV 2140 Facility ID: Air District Name: SJU SIC Code:

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: .1437411615086447268 Reactive Organic Gases Tons/Yr: .14296067547607429

Carbon Monoxide Emissions Tons/Yr:

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFFS EXXON (Continued) U001588123

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

 Year:
 2009

 County Code:
 10

 Air Basin:
 SJV

 Facility ID:
 2140

 Air District Name:
 SJU

 SIC Code:
 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0.64461654044884098 Reactive Organic Gases Tons/Yr: 0.64111640032959005

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

 Year:
 2010

 County Code:
 10

 Air Basin:
 SJV

 Facility ID:
 2140

 Air District Name:
 SJU

 SIC Code:
 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 0.16697665886148699

Reactive Organic Gases Tons/Yr: 0.16607
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

Address: 1307 N ST

City, State, Zip: FIREBAUGH, CA 93622

 Year:
 2011

 County Code:
 10

 Air Basin:
 SJV

 Facility ID:
 2140

 Air District Name:
 SJU

 SIC Code:
 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CLIFFS EXXON (Continued) U001588123

Total Organic Hydrocarbon Gases Tons/Yr: 0.1435718037 Reactive Organic Gases Tons/Yr: 0.14279223724

Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

Year: 2012 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Not reported Consolidated Emission Reporting Rule: Total Organic Hydrocarbon Gases Tons/Yr: 0.13969544333 Reactive Organic Gases Tons/Yr: 0.13893692474

Carbon Monoxide Emissions Tons/Yr: 0 NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: Λ Part. Matter 10 Micrometers and Smllr Tons/Yr:0

FIREBAUGH GAS & MINI MART Name:

Address: 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

Year: 2013 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 0.13917 Reactive Organic Gases Tons/Yr: 0.13917 Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: 0 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: FIREBAUGH GAS & MINI MART

1307 N ST Address:

City,State,Zip: FIREBAUGH, CA 93622

Year: 2014 County Code: 10 Air Basin: SJV Facility ID: 2140 Air District Name: SJU SIC Code: 5541

Direction Distance

Elevation Site Database(s) EPA ID Number

CLIFFS EXXON (Continued) U001588123

Air District Name: SAN JOAQUIN VALLEY APCD

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.14054357526
Reactive Organic Gases Tons/Yr: 0.14054357526

Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

L57 CLIFF'S EXXON UST FINDER RELEASE 1028938266
WNW 1307 N ST N/A

1/4-1/2 FIREBAUGH, CA 93622

0.371 mi.

1957 ft. Site 3 of 3 in cluster L

Relative: UST FINDER RELEASE:
Higher Object ID:

 Higher
 Object ID:
 53520

 Actual:
 Facility ID:
 Not reported

 151 ft.
 Lust ID:
 CAT0601900511

 Name:
 CLIFF'S EXXON

 Address:
 1307 N ST

City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress
Reported Date: Not reported
Status: No Further Action
Substance: Not reported

Population within 1500ft: 579
Domestic Wells within 1500ft: 4

Land Use: Developed, High Intensity

Within SPA: No

SPA PWS Facility ID:

SPA Water Type:

SPA Facility Type:

SPA HUC12:

Within WHPA:

Not reported

Not reported

Yes

WHPA PWS Facility ID:

WHPA Water Type:

WHPA Facility Type:

WHPA HUC12:

CA1010005_11897

GW - Ground water

WL - Well

180400010806

Within 100yr Floodplain: No

Tribe: Not reported

EPA Region: 9

NFA Letter 1: Not reported NFA Letter 2: Not reported Not reported NFA Letter 3: Not reported NFA Letter 4: Closed With Residual Contaminate: Not reported Coordinate Source: Geocode X Coord: -120.45487 Y Coord: 36.8558600000001 Latitude: 36.85586

Longitude: -120.45487

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

58 AG AND INDUSTRIAL SUPPLY LUST S105032966

East 7377 RIVERDRIVE SWEEPS UST N/A

1/4-1/2 FIREBAUGH, CA 93622 HIST UST

0.379 mi. 1999 ft.

Relative: LUST REG 5:

Higher Name: AG & INDUSTRIAL SUPPLY INC.

Actual: Address: 7377 RIVERDRIVE 149 ft. City: FIREBAUGH

Region:

Status: Pollution Characterization

Case Number: 5T20000057

Case Type: Other ground water affected

Substance: UNLEAD GASOLINE

Staff Initials: JWH
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

SWEEPS UST:

Name: AG AND INDUSTRIAL SUPPLY

Address: 7377 RIVERDRIVE
City: FIREBAUGH
Status: Active
Comp Number: 6863
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 ld: 10-000-006863-000001

Tank Status: A
Capacity: 500
Active Date: 07-01-85
Tank Use: M.V. FUEL

STG: P

Content: REG UNLEADED

Number Of Tanks: 1

HIST UST:

Name: AG AND INDUSTRIAL SUPPLY

Address: 7377 RIVERDRIVE
City,State,Zip: FIREBAUGH, CA 93622

File Number: 000289d3

URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/000289d3.pdf

Region: Not reported Facility ID: Not reported Facility Type: Not reported Other Type: Not reported Not reported Contact Name: Telephone: Not reported Not reported Owner Name: Owner Address: Not reported Owner City, St, Zip: Not reported Total Tanks: Not reported **EDR ID Number**

Direction Distance

Elevation Site Database(s) EPA ID Number

AG AND INDUSTRIAL SUPPLY (Continued)

S105032966

N/A

EDR ID Number

Tank Num: Not reported Not reported Container Num: 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:

M59 CALPINE CONTAINER FACILITY UST FINDER RELEASE 1028929823

West 1440 M ST

1/4-1/2 FIREBAUGH, CA 93622

0.385 mi.

2034 ft. Site 1 of 2 in cluster M

Relative: UST FINDER RELEASE:

 Higher
 Object ID:
 53512

 Actual:
 Facility ID:
 Not reported

 152 ft.
 Lust ID:
 CAT0601900052

Name: CALPINE CONTAINER FACILITY

Address: 1440 M ST

City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: StreetAddress
Reported Date: Not reported
Status: No Further Action
Substance: Not reported

Population within 1500ft: 481 Domestic Wells within 1500ft: 4

Land Use: Developed, Medium Intensity

Within SPA: No

SPA PWS Facility ID:

SPA Water Type:

SPA Facility Type:

SPA HUC12:

Within WHPA:

Not reported

Not reported

Yes

WHPA PWS Facility ID: CA1010005_11897
WHPA Water Type: GW - Ground water
WHPA Facility Type: WL - Well

WHPA Facility Type: WL - Well WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Tribe: Not reported

EPA Region: 9

NFA Letter 1: Not reported
NFA Letter 2: Not reported
NFA Letter 3: Not reported
NFA Letter 4: Not reported
Closed With Residual Contaminate: Not reported
Coordinate Source: Geocode
X Coord: -120.45566

Y Coord: 36.85457 Latitude: 36.85457

Longitude: -120.455659999999

Direction Distance

Elevation Site Database(s) EPA ID Number

M60 CALPINE CONTAINER FACILITY LUST \$104869810

West 1440 M ST Cortese N/A

 1/4-1/2
 FIREBAUGH, CA 93622
 CUPA Listings

 0.385 mi.
 HIST CORTESE

 2034 ft.
 Site 2 of 2 in cluster M
 CERS

Relative: LUST:

Higher Name: CALPINE CONTAINER FACILITY

Actual: Address: 1440 M ST

152 ft. City,State,Zip: FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900052

 Global Id:
 T0601900052

 Latitude:
 36.8540205715863

 Longitude:
 -120.456054210663

 Status:
 Completed - Case Closed

Status Date: 04/02/2013
Case Worker: JWH
RB Case Number: 5T10000053
Local Agency: Not reported
File Location: Not reported
Local Case Number: FA0269406

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region:

Coordinate Source: Google Map Move

Cuf Case: YES

Quantity Released Gallons: Not reported Begin Date: 05/24/1986 06/30/1986 Leak Reported Date: How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Not reported Stop Description: No Further Action Date: 04/02/2013

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community:
CA Enviroscreen 3 Score:
CA Enviroscreen 4 Score:
Military DOD Site:
Not reported
76-80%
90-95%
No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

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.

LUST:

Global Id: T0601900052

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

CALPINE CONTAINER FACILITY (Continued)

S104869810

EDR ID Number

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: FRESNO

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 02/13/2004

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 09/16/2003

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 05/08/2008

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 10/27/2009

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 02/05/2013

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 09/18/2012

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 11/01/2010

Action: Corrective Action Plan / Remedial Action Plan - Addendum

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 08/01/2011

Action: CAP/RAP - Other Report

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 09/03/2002

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 01/28/2003

 Action:
 Staff Letter

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

CALPINE CONTAINER FACILITY (Continued)

S104869810

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 07/31/2009

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 01/11/2011

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 Other

 Date:
 05/24/1986

 Action:
 Leak Discovery

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 03/10/2003

Action: Other Report / Document

Global Id: T0601900052
Action Type: RESPONSE
Date: 09/15/2003

Action: Monitoring Report - Quarterly

Global Id: T0601900052
Action Type: RESPONSE
Date: 01/12/2004

Action: Soil and Water Investigation Workplan

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 08/16/2004

Action: Soil and Water Investigation Report

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 03/31/2008

Action: Soil and Water Investigation Workplan

Global Id: T0601900052
Action Type: ENFORCEMENT
Date: 11/23/2010

Action: Clean Up Fund - Letter to RP

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 02/01/2008

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 Other

 Date:
 06/30/1986

 Action:
 Leak Reported

Global Id: T0601900052 Action Type: RESPONSE

Direction Distance

Elevation Site Database(s) EPA ID Number

CALPINE CONTAINER FACILITY (Continued)

S104869810

EDR ID Number

Date: 11/01/2009

Action: Monitoring Report - Semi-Annually

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 05/01/2005

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900052

 Action Type:
 REMEDIATION

 Date:
 06/02/1988

 Action:
 Excavation

 Global Id:
 T0601900052

 Action Type:
 REMEDIATION

 Date:
 09/29/1988

Action: Pump & Treat (P&T) Groundwater

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 07/12/2011

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 08/30/2010

 Action:
 Staff Letter

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 04/02/2013

Action: Closure/No Further Action Letter

Global Id: T0601900052
Action Type: ENFORCEMENT
Date: 12/03/2012

Action: Notification - Preclosure

Global Id: T0601900052
Action Type: ENFORCEMENT
Date: 11/26/2012

Action: Notification - Preclosure

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 09/15/2004

 Action:
 Staff Letter

Global Id: T0601900052
Action Type: ENFORCEMENT
Date: 06/22/2012

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0601900052
Action Type: ENFORCEMENT
Date: 06/22/2012

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Direction
Distance

Elevation Site Database(s) EPA ID Number

CALPINE CONTAINER FACILITY (Continued)

S104869810

EDR ID Number

 Global Id:
 T0601900052

 Action Type:
 ENFORCEMENT

 Date:
 09/21/2011

Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 01/04/2010

Action: CAP/RAP - Other Report

Global Id: T0601900052
Action Type: RESPONSE
Date: 06/01/2005

Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0601900052
Action Type: RESPONSE
Date: 09/15/2008

Action: Other Report / Document

Global Id: T0601900052
Action Type: RESPONSE
Date: 12/02/2002

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 09/01/2011

 Action:
 Other Workplan

Global Id: T0601900052
Action Type: RESPONSE
Date: 11/01/2011

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 08/01/2012

Action: Monitoring Report - Quarterly

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 10/18/2012

Action: Fact Sheets - Public Participation

 Global Id:
 T0601900052

 Action Type:
 RESPONSE

 Date:
 04/05/2013

Action: Well Destruction Report

LUST:

Global Id: T0601900052

Status: Open - Case Begin Date

Status Date: 05/24/1986

Global Id: T0601900052

Status: Open - Site Assessment

Direction Distance

Elevation Site Database(s) EPA ID Number

CALPINE CONTAINER FACILITY (Continued)

S104869810

EDR ID Number

Status Date: 05/22/1987

Global Id: T0601900052

Status: Open - Site Assessment

Status Date: 09/30/1987

Global Id: T0601900052 Status: Open - Remediation

Status Date: 09/29/1988

Global Id: T0601900052 Status: Open - Remediation

Status Date: 11/18/1988

Global Id: T0601900052

Status: Open - Verification Monitoring

Status Date: 11/09/1999

Global Id: T0601900052

Status: Open - Site Assessment

Status Date: 12/31/2004

Global Id: T0601900052 Status: Open - Remediation

Status Date: 01/21/2008

Global Id: T0601900052

Status: Open - Site Assessment

Status Date: 03/01/2008

Global Id: T0601900052 Status: Open - Remediation

Status Date: 01/24/2011

Global Id: T0601900052

Status: Open - Eligible for Closure

Status Date: 09/10/2012

Global Id: T0601900052

Status: Completed - Case Closed

Status Date: 04/02/2013

LUST REG 5:

Name: CAL PINE CONTAINER CORP

Address: 1440 M ST City: FIREBAUGH

Region: 5

Status: Pollution Characterization

Case Number: 5T10000053

Case Type: Drinking Water Aquifer affected

Substance: REGULR GASOLINE

Staff Initials: JWH
Lead Agency: Regional
Program: LUST
MTBE Code: ND

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CALPINE CONTAINER FACILITY (Continued)

S104869810

CORTESE:

CALPINE CONTAINER FACILITY Name:

Address: 1440 M ST

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Envirostor Id: Not reported Global ID: T0601900052

Site/Facility Type: LUST CLEANUP SITE

Cleanup Status: **COMPLETED - CASE CLOSED**

Status Date: Not reported Not reported Site Code: Latitude: Not reported Longitude: Not reported Owner: Not reported Not reported Enf Type: Swat R: Not reported Flag: active Order No: Not reported Waste Discharge System No: Not reported Not reported Effective Date: Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Not reported Waste Management Uit Name: File Name: Active Open

CUPA FRESNO:

CALPINE CONTAINERS Name:

1440 M ST Address:

City,State,Zip: FIREBAUGH, CA 93622

Region: **FRESNO** Cross Street: Not reported FA0269406 Facility ID: APM Number: 00814019

Program Element: UST REMOVAL/CLOSURE W/1 TANK

CALPINE CONTAINERS Name:

1440 M ST Address:

FIREBAUGH, CA 93622 City,State,Zip:

Region: **FRESNO** Cross Street: Not reported Facility ID: FA0269406 APM Number: 00814019

FORMER CONTAMINATED SITE/NO FURTHER ACTION Program Element:

HIST CORTESE:

edr_fname: CAL PINE CONTAINER COFRP

edr_fadd1: 1440 M

FIREBAUGH, CA 94553 City,State,Zip:

Region: CORTESE Facility County Code: 10 **LTNKA** Reg By: Reg Id: 5T10000053

CERS:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CALPINE CONTAINER FACILITY (Continued)

S104869810

Name: CALPINE CONTAINER FACILITY

1440 M ST Address:

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 716865 CERS ID: T0601900052

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Regional Board Caseworker Affiliation Type Desc:

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title: Not reported Affiliation Address: 1685 É STREET Affiliation City: **FRESNO** Affiliation State: CA

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

K61 **APARTMENTS -1238 P STREET US BROWNFIELDS** 1016370649

WNW **1238 P STREET FINDS** N/A

1/4-1/2 FIREBAUGH, CA 93622

0.391 mi.

2065 ft. Site 2 of 2 in cluster K Relative: **US BROWNFIELDS:**

Higher Name: **APARTMENTS -1238 P STREET**

Address: 1238 P STREET Actual: Recipient name: Firebaugh, City of 149 ft. Grant type: Assessment Property Number: 008-075-03

Parcel size: 0.34 Latitude: 36.857844 -120.454095 Longitude:

Highlights: Former Use: Apartments/City of Firebaugh

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source:

Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA**

Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 6/29/2010 Ownership Entity: Government Completion Date: 8/30/2010 Current Owner: City of Firebaugh

Cleanup Required: Υ Video Available: Ν

Distance Elevation Site

Site Database(s) EPA ID Number

APARTMENTS -1238 P STREET (Continued)

1016370649

EDR ID Number

Photo Available:

Institutional Controls Required:

IC Category Proprietary Controls:

IC Cat. Info. Devices:

IC Cat. Gov. Controls:

IC Cat. Enforcement Permit Tools:

IC in place date:

IC in place:

State/tribal program date:

State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Property Description: Apartments/City of Firebaugh

Below Poverty Number: 395 Below Poverty Percent: 38.95 Meidan Income: 2874 Meidan Income Number: 742 Meidan Income Percent: 73.18 Vacant Housing Number: 51 Vacant Housing Percent: 14.24 **Unemployed Number:** 104 **Unemployed Percent:** 10.26

FINDS:

Registry ID: 110046370958

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

N62 **VACANT COMMERCIAL/RESIDENTIAL PROPERTY US BROWNFIELDS** 1016370666 WNW

1231 O STREET FINDS N/A

1/4-1/2 FIREBAUGH, CA 93622

0.400 mi.

2111 ft. Site 1 of 4 in cluster N US BROWNFIELDS: Relative:

Higher VACANT COMMERCIAL/RESIDENTIAL PROPERTY Name:

1231 O STREET Address: Actual: Recipient name: Firebaugh, City of 150 ft. Grant type: Assessment

Property Number: 008-075-09 Parcel size: 0.09

36.857598000000003 Latitude:

Longitude: -120.454571

Highlights: Former Use: Commercial/residential property

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name: Redevelopment Start Date: Assessment Funding Entity: **EPA** Cleanup Funding Entity:

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported Start Date: 7/6/2011 Ownership Entity: Private Completion Date: 8/4/2011 Current Owner:

Cleanup Required: U Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: Past use commercial acreage: 0.09 Past use industrial acreage: Future use greenspace acreage:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

VACANT COMMERCIAL/RESIDENTIAL PROPERTY (Continued)

1016370666

Future use residential acreage: Future use commercial acreage: 0.09 Future use industrial acreage: Future Use: Multistory Past Use: Multistory

Property Description: Commercial/residential property

Below Poverty Number: 389 Below Poverty Percent: 40.23 Meidan Income: 2874 Meidan Income Number: 711 Meidan Income Percent: 73.53 Vacant Housing Number: 48 Vacant Housing Percent: 14.21 **Unemployed Number:** 98 **Unemployed Percent:** 10.13

FINDS:

110046371243 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

N63 FIREBAUGH, CITY OF LUST S110654070 WNW 12TH & O ST N/A

FIREBAUGH, CITY OF

12TH & O ST

1/4-1/2 FIREBAUGH, CA 93622

0.444 mi.

Actual:

2343 ft. Site 2 of 4 in cluster N

Relative: LUST: Higher Name: Address:

FIREBAUGH, CA 93622 City,State,Zip: 150 ft.

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: **LUST Cleanup Site**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900173

Global Id: T0601900173 Latitude: 36.8579337 Longitude: -120.4552762

Completed - Case Closed Status:

Status Date: 11/17/1999 Case Worker: JWH 5T10000175 RB Case Number: Local Agency: FRESNO COUNTY File Location: Not reported FA0270951 Local Case Number:

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline EPA Region:

* Historical Geocode - Exact Address Match Coordinate Source:

Cuf Case: NO

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH, CITY OF (Continued)

S110654070

Quantity Released Gallons: Not reported 05/10/1989 Begin Date: Leak Reported Date: 06/22/1989 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Other Discharge Cause: Unknown Stop Method: Not reported Stop Description: Not reported 11/17/1999 No Further Action Date:

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20) San Joaquin Valley - Delta-Mendota (5-022.07) Dwr Groundwater Subbasin Name:

Disadvantaged Community: Not reported CA Enviroscreen 3 Score: 76-80% CA Enviroscreen 4 Score: 90-95% Military DOD Site: No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

T0601900173 Global Id:

Contact Type: Local Agency Caseworker

Contact Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV

Organization Name: FRESNO COUNTY 1221 Fulton Street Address:

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900173

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

CENTRAL VALLEY RWQCB (REGION 5F) Organization Name:

Address: 1685 E STREET

FRESNO City:

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

T0601900173 Global Id: Action Type: Other 05/22/1989 Date: Action: Leak Discovery

Global Id: T0601900173 Action Type: Other Date: 06/22/1989 Action: Leak Reported

T0601900173 Global Id: Action Type: **ENFORCEMENT** Date: 11/17/1999

Action: Closure/No Further Action Letter

Global Id: T0601900173 Action Type: Other

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH, CITY OF (Continued)

S110654070

Date: 05/10/1989 Action: Leak Stopped

LUST:

Global Id: T0601900173

Open - Case Begin Date Status:

05/10/1989 Status Date:

Global Id: T0601900173

Status: Open - Site Assessment

06/01/1994 Status Date:

Global Id: T0601900173

Completed - Case Closed Status:

Status Date: 11/17/1999

N64 FIREBAUGH, CITY OF LUST S103479879

WNW 12TH & O ST Cortese N/A 1/4-1/2 **HIST CORTESE** FIREBAUGH, CA 93622

0.444 mi.

Site 3 of 4 in cluster N 2343 ft.

Relative: LUST REG 5:

Higher Name: FIREBAUGH, CITY OF

Address: 12TH & O ST Actual: **FIREBAUGH** City: 150 ft.

> Region: 5

Case Closed Status: Case Number: 5T10000175

Case Type: Drinking Water Aquifer affected

Substance: **GASOLINE** JWH Staff Initials: Regional Lead Agency: LUST Program: MTBE Code: N/A

CORTESE:

FIREBAUGH, CITY OF Name:

Address: 12TH & O ST

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Envirostor Id: Not reported Global ID: T0601900173 LUST CLEANUP SITE Site/Facility Type:

COMPLETED - CASE CLOSED Cleanup Status:

Status Date: Not reported Site Code: Not reported Latitude: Not reported Longitude: Not reported Not reported Owner: Enf Type: Not reported Swat R: Not reported Flag: active Order No: Not reported Waste Discharge System No: Not reported Effective Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FIREBAUGH, CITY OF (Continued)

S103479879

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:

FIREBAUGH, CITY OF edr_fname:

edr_fadd1: 12TH & O ST

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Facility County Code: 10 Reg By: **LTNKA** Reg Id: 5T10000175

N65 FIREBAUGH, CITY OF UST FINDER RELEASE 1028957729 WNW 12TH & O ST N/A

1/4-1/2 FIREBAUGH, CA 93622

0.444 mi.

2343 ft. Site 4 of 4 in cluster N

UST FINDER RELEASE: Relative:

Higher Object ID: 53516 Facility ID: Not reported Actual: Lust ID: CAT0601900173 150 ft. Name: FIREBAUGH, CITY OF Address: 12TH & O ST

> City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: StreetInt Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 561 Domestic Wells within 1500ft:

Land Use: Developed, High Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 GW - Ground water WHPA Water Type:

WL - Well WHPA Facility Type: WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Tribe: Not reported

EPA Region:

NFA Letter 1: Not reported NFA Letter 2: Not reported Not reported NFA Letter 3: NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode

X Coord: -120.45538 36.8578900000001 Y Coord: 36.8578899999999 Latitude:

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

FIREBAUGH, CITY OF (Continued)

1028957729

Longitude: -120.45538

O66 FINANCE AND THRIFT LUST S101294384

WNW 1190 O ST SWEEPS UST N/A

1/4-1/2 FIREBAUGH, CA 93622 Cortese

0.461 mi. CUPA Listings

Relative: Higher

Higher LUST:
Actual: Name: FINANCE & THRIFT

150 ft. Address: 1190 O ST City,State,Zip: FIREBAUGH, CA 93622

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900081

Global Id: T0601900081 Latitude: 36.857885 Longitude: -120.455702

Status: Completed - Case Closed

Status Date: 08/05/1998
Case Worker: JWH
RB Case Number: 5T10000082
Local Agency: FRESNO COUNTY
File Location: Not reported
Local Case Number: FA0269413

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline EPA Region: 9

Coordinate Source: Google Geocode

Cuf Case: YES

Quantity Released Gallons: Not reported 01/01/1987 Begin Date: Leak Reported Date: 07/24/1987 Tank Closure How Discovered: How Discovered Description: Not reported Discharge Source: Tank Discharge Cause: Corrosion Stop Method: Not reported Not reported Stop Description: No Further Action Date: 08/05/1998

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community:

CA Enviroscreen 3 Score:

CA Enviroscreen 4 Score:

Military DOD Site:

Not reported
76-80%
90-95%
No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

Global Id: T0601900081

Contact Type: Local Agency Caseworker

Contact Name: FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV

Organization Name: FRESNO COUNTY
Address: FRESNO COUNTY

City: Fresno

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

FINANCE AND THRIFT (Continued)

S101294384

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900081

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: JEFFREY HANNEL

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E STREET City: **FRESNO**

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

T0601900081 Global Id: Action Type: Other Date: 01/01/1987 Action: Leak Discovery

Global Id: T0601900081 **ENFORCEMENT** Action Type: 08/05/1998 Date:

Action: Closure/No Further Action Letter

Global Id: T0601900081 Action Type: Other 07/24/1987 Date: Action: Leak Reported

LUST:

Global Id: T0601900081

Status: Open - Case Begin Date

Status Date: 01/01/1987

T0601900081 Global Id:

Open - Site Assessment Status:

Status Date: 12/22/1987

Global Id: T0601900081

Completed - Case Closed Status:

08/05/1998 Status Date:

LUST REG 5:

FINANCE & THRIFT Name:

Address: 1190 O ST **FIREBAUGH** City:

Region: 5

Status: Case Closed Case Number: 5T10000082

Case Type: Drinking Water Aquifer affected

GASOLINE Substance: JWH Staff Initials: Lead Agency: Regional LUST Program: MTBE Code: N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

FINANCE AND THRIFT (Continued)

S101294384

EDR ID Number

SWEEPS UST:

Name: FINANCE AND THRIFT

Address: 1190 O ST
City: FIREBAUGH
Status: Not reported

Comp Number: 456

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: 10-000-000456-000001

Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED

Number Of Tanks: 2

Name: FINANCE AND THRIFT

Address: 1190 O ST
City: FIREBAUGH
Status: Not reported

Comp Number: 456

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 ld: 10-000-000456-000002

Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CORTESE:

Name: FINANCE & THRIFT

Address: 1190 O ST

City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T0601900081

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

Direction Distance

Elevation Site Database(s) EPA ID Number

FINANCE AND THRIFT (Continued)

S101294384

EDR ID Number

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 Not reported Solid Waste Id No: Waste Management Uit Name: Not reported File Name: Active Open

CUPA FRESNO:

Name: FINANCE AND THRIFT

Address: 1190 O ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0269413
APM Number: 00807408

Program Element: UST REMOVAL/CLOSURE W/2 TANKS

Name: FINANCE AND THRIFT

Address: 1190 O ST

City, State, Zip: FIREBAUGH, CA 93622

Region: FRESNO
Cross Street: Not reported
Facility ID: FA0269413
APM Number: 00807408

Program Element: CONTAMINATED UST SITE/RWQCB LEAD AGENCY

HIST CORTESE:

edr_fname: FINANCE & THRIFT

edr_fadd1: 1190 O

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE
Facility County Code: 10
Reg By: LTNKA
Reg Id: 5T10000082

CERS:

Name: FINANCE & THRIFT

Address: 1190 O ST

City,State,Zip: FIREBAUGH, CA 93622

 Site ID:
 730061

 CERS ID:
 T0601900081

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title: Not reported
Affiliation Address: 1685 E STREET
Affiliation City: FRESNO
Affiliation State: CA

Affiliation Country: Not reported Affiliation Zip: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

FINANCE AND THRIFT (Continued)

S101294384

EDR ID Number

Affiliation Phone:

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:

UST FINDER RELEASE 1028957482 **O67 FINANCE & THRIFT** N/A

WNW 1190 O ST

1/4-1/2 FIREBAUGH, CA 93622

0.461 mi.

Site 2 of 6 in cluster O 2432 ft.

UST FINDER RELEASE: Relative:

Higher Object ID: 53514 Facility ID: Not reported Actual: CAT0601900081 Lust ID: 150 ft. FINANCE & THRIFT Name:

Address: 1190 O ST

City, State, Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 552 Domestic Wells within 1500ft:

Land Use: Developed, High Intensity

Within SPA: No

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported Within WHPA: Yes

WHPA PWS Facility ID: CA1010005_11897 WHPA Water Type: GW - Ground water

WL - Well WHPA Facility Type: 180400010806 WHPA HUC12:

Within 100yr Floodplain: Nο

Tribe: Not reported

EPA Region:

Not reported NFA Letter 1: Not reported NFA Letter 2: NFA Letter 3: Not reported NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode

X Coord: -120.45553 Y Coord: 36.85799 Latitude: 36.85799

-120.455529999999 Longitude:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

O68 COMMERCIAL PROPERTIES US BROWNFIELDS 1016370665 WNW

1174/1178 O STREET **FINDS** N/A

1/4-1/2 FIREBAUGH, CA 93622 0.472 mi.

2491 ft. Site 3 of 6 in cluster O US BROWNFIELDS: Relative:

Higher **COMMERCIAL PROPERTIES** Name:

Address: 1174/1178 O STREET Actual: Recipient name: Firebaugh, City of 150 ft. Grant type: Assessment

Property Number: 008-074-07 Parcel size: 0.17 Latitude: 36.857948 Longitude: -120.455939

Highlights: Former Use: Commercial properties (recently a thrift and donut shop)

Start Date: Redev Completition Date: Completed Date: Acres Cleaned Up: Cleanup Funding: Cleanup Funding Source: Assessment Funding: 5000 Assessment Funding Source: Redevelopment Funding: Redev. Funding Source: Redev. Funding Entity Name:

Redevelopment Start Date:

Current Owner:

Assessment Funding Entity: **EPA** Cleanup Funding Entity: Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment

Cooperative Agreement Number: Not reported 7/6/2011 Start Date: Ownership Entity: Private Completion Date: 8/12/2011

Cleanup Required: U Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported Contaminant Cleanup: Not reported Media Affected: Not reported Media Cleanup: Not reported

Num. of cleanup and re-dev. jobs: Past use greenspace acreage: Past use residential acreage: Past use commercial acreage: 0.17 Past use industrial acreage: Future use greenspace acreage:

Direction Distance

Elevation Site Database(s) EPA ID Number

COMMERCIAL PROPERTIES (Continued)

1016370665

EDR ID Number

Future use residential acreage:

Future use commercial acreage:

Future use industrial acreage:

Future Use: Multistory

Past Use: Multistory

-

Property Description: Commercial properties (recently a thrift and donut shop)

Below Poverty Number: 489 Below Poverty Percent: 35.9 Meidan Income: 904 Meidan Income Number: 978 Meidan Income Percent: 71.81 Vacant Housing Number: 62 Vacant Housing Percent: 14.04 **Unemployed Number:** 128 **Unemployed Percent:** 9.4

FINDS:

Registry ID: 110046371234

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA) performed by EPA Regions.

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

O69 COMMERCIAL PROPERTY US BROWNFIELDS 1016370664
WNW 1148 O STREET FINDS N/A

1/4-1/2 FIREBAUGH, CA 93622

0.494 mi.

2608 ft. Site 4 of 6 in cluster O

Relative: US BROWNFIELDS:

Higher Name: COMMERCIAL PROPERTY

Actual: Address: 1148 O STREET

150 ft. Recipient name: Firebaugh, City of
Grant type: Assessment

Property Number: 008-074-17
Parcel size: 0.17

Latitude: 36.858213900000003

Longitude: -120.456215

Highlights: Former Use: Vacant commercial building

Start Date:

Redev Completition Date:

Completed Date:

Acres Cleaned Up:

Cleanup Funding:

Cleanup Funding:

Assessment Funding:

Assessment Funding Source:

Redevelopment Funding:

Redev. Funding Source:

Redev. Funding Entity Name:

Redevelopment Start Date:

Map ID MAP FINDINGS
Direction

Distance Elevation Site

Site Database(s) EPA ID Number

COMMERCIAL PROPERTY (Continued)

1016370664

EDR ID Number

Assessment Funding Entity: EPA

Cleanup Funding Entity: -

Grant Type: Hazardous

Accomplishment Type: Phase I Environmental Assessment Cooperative Agreement Number: Not reported

Start Date: 7/6/2011
Ownership Entity: Private
Completion Date: 8/12/2011

Current Owner: Cleanup Required: Ν Video Available: Ν Photo Available: Υ Institutional Controls Required: Ν IC Category Proprietary Controls: IC Cat. Info. Devices: IC Cat. Gov. Controls: IC Cat. Enforcement Permit Tools: IC in place date: IC in place: State/tribal program date: State/tribal program ID:

Contaminant Found: Not reported
Contaminant Cleanup: Not reported
Media Affected: Not reported
Media Cleanup: Not reported

Property Description: Vacant commercial building

Below Poverty Number: 517 Below Poverty Percent: 35.07 Meidan Income: 904 Meidan Income Number: 1054 Meidan Income Percent: 71.51 Vacant Housing Number: 65 Vacant Housing Percent: 13.8 **Unemployed Number:** 137 **Unemployed Percent:** 9.29

FINDS:

Registry ID: 110046371225

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

The 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 (TBA)

Direction Distance

Elevation Site Database(s) **EPA ID Number**

COMMERCIAL PROPERTY (Continued)

1016370664

EDR ID Number

performed by EPA Regions.

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

070 **UNOCAL #3371** UST FINDER RELEASE 1029123746 WNW 1185 N ST N/A

1/4-1/2 FIREBAUGH, CA 93622

0.495 mi.

2612 ft. Site 5 of 6 in cluster O

Relative: **UST FINDER RELEASE:**

Higher 53508 Object ID: Facility ID: Not reported Actual: Lust ID: CAT0601900132 151 ft. UNOCAL #3371 Name: 1185 N ST Address:

> City,State,Zip: FIREBAUGH, CA 93622

Address Match Type: PointAddress Reported Date: Not reported Status: No Further Action Substance: Not reported

Population within 1500ft: 492 Domestic Wells within 1500ft:

Land Use: Developed, High Intensity

Within SPA:

SPA PWS Facility ID: Not reported SPA Water Type: Not reported SPA Facility Type: Not reported SPA HUC12: Not reported

Within WHPA: Yes

WHPA PWS Facility ID: CA1010005 11897 WHPA Water Type: GW - Ground water WL - Well

WHPA Facility Type: WHPA HUC12: 180400010806

Within 100yr Floodplain: No

Tribe: Not reported EPA Region:

NFA Letter 1: Not reported Not reported NFA Letter 2: Not reported NFA Letter 3: NFA Letter 4: Not reported Closed With Residual Contaminate: Not reported Coordinate Source: Geocode

X Coord: -120.45645 Y Coord: 36.8573700000001

Latitude: 36.85737 -120.45645 Longitude:

Direction Distance

Elevation Site Database(s) **EPA ID Number**

071 **UNOCAL #3371** LUST S102439915

WNW 1185 N ST Cortese N/A

CUPA Listings 1/4-1/2 FIREBAUGH, CA 93622 0.495 mi. HIST CORTESE

2612 ft. Site 6 of 6 in cluster O

LUST: Relative: Higher UNOCAL #3371 Name: Address: 1185 N ST Actual:

City,State,Zip: FIREBAUGH, CA 93622 151 ft.

Lead Agency: CENTRAL VALLEY RWQCB (REGION 5F)

> Case Type: LUST Cleanup Site

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601900132

Global Id: T0601900132 Latitude: 36.857529 Longitude: -120.45627

Status: Completed - Case Closed

Status Date: 08/04/1998 Case Worker: JWH 5T10000134 RB Case Number: Local Agency: FRESNO COUNTY File Location: Not reported Local Case Number: FA0266634

Potential Media Affect: Aquifer used for drinking water supply

Potential Contaminants of Concern: Gasoline

EPA Region:

Coordinate Source: Google Geocode

Cuf Case: YES

Quantity Released Gallons: Not reported Begin Date: 11/10/1988 Leak Reported Date: 11/18/1988 How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Tank Discharge Cause: Corrosion Stop Method: Not reported Not reported Stop Description:

08/04/1998 CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20) Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community: Not reported CA Enviroscreen 3 Score: 76-80% CA Enviroscreen 4 Score: 90-95% Military DOD Site:

No Further Action Date:

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Not reported Site History:

LUST:

Global Id: T0601900132

Contact Type: Local Agency Caseworker

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV Contact Name:

Organization Name: FRESNO COUNTY Address: 1221 Fulton Street

City: Fresno

Email: environmentalhealth@fresnocountyca.gov

Phone Number: Not reported

Global Id: T0601900132

Regional Board Caseworker - Primary Caseworker Contact Type:

EDR ID Number

CERS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNOCAL #3371 (Continued)

S102439915

Contact Name: JEFFREY HANNEL

CENTRAL VALLEY RWQCB (REGION 5F) Organization Name:

Address: 1685 E STREET City: **FRESNO**

Email: jhannel@waterboards.ca.gov

Phone Number: Not reported

LUST:

Global Id: T0601900132 Action Type: Other 11/10/1988 Date: Action: Leak Discovery

Global Id: T0601900132 Action Type: Other Date: 11/18/1988 Action: Leak Reported

T0601900132 Global Id: Action Type: Other 11/10/1988 Date: Action: Leak Stopped

LUST:

Global Id: T0601900132

Status: Open - Case Begin Date

Status Date: 11/10/1988

T0601900132 Global Id:

Status: Open - Site Assessment

Status Date: 11/18/1988

Global Id: T0601900132 Open - Remediation Status:

Status Date: 06/01/1994

T0601900132 Global Id:

Completed - Case Closed Status:

08/04/1998 Status Date:

LUST REG 5:

UNOCAL #3371 Name: 1185 N ST Address: **FIREBAUGH** City:

Region: 5

Status: Case Closed 5T10000134 Case Number:

Drinking Water Aquifer affected Case Type:

Substance: **GASOLINE** JWH Staff Initials: Regional Lead Agency: LUST Program: MTBE Code: N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

UNOCAL #3371 (Continued) S102439915

CORTESE:

UNOCAL #3371 Name: Address: 1185 N ST

City,State,Zip: FIREBAUGH, CA 93622

Region: CORTESE Envirostor Id: Not reported Global ID: T0601900132

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 Not reported Enf Type: Swat R: Not reported Flag: active Order No: Not reported Waste Discharge System No: Not reported Not reported Effective Date: Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Not reported Waste Management Uit Name: File Name: Active Open

CUPA FRESNO:

UNOCAL Name: 1185 N ST Address:

City,State,Zip: FIREBAUGH, CA 93622

Region: **FRESNO** Cross Street: Not reported Facility ID: FA0266634 APM Number: 00807410T

UST REMOVAL/CLOSURE W/3 TANKS Program Element:

Name: UNOCAL Address: 1185 N ST

FIREBAUGH, CA 93622 City,State,Zip:

Region: **FRESNO** Cross Street: Not reported Facility ID: FA0266634 APM Number: 00807410T

FORMER CONTAMINATED SITE/NO FURTHER ACTION Program Element:

HIST CORTESE:

edr_fname: UNOCAL #3371

edr_fadd1: 1185 N

FIREBAUGH, CA 94596 City,State,Zip:

Region: CORTESE Facility County Code: **LTNKA** Reg By: Reg Id: 5T10000134

CERS:

Direction Distance

Elevation Site Database(s) **EPA ID Number**

UNOCAL #3371 (Continued) S102439915

Name: UNOCAL #3371 Address: 1185 N ST

City,State,Zip: FIREBAUGH, CA 93622

Site ID: 770034 CERS ID: T0601900132

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Regional Board Caseworker Affiliation Type Desc:

Entity Name: JEFFREY HANNEL - CENTRAL VALLEY RWQCB (REGION 5F)

Entity Title: Not reported Affiliation Address: 1685 É STREET Affiliation City: **FRESNO** Affiliation State: CA

Affiliation Country: Not reported Affiliation Zip: Not reported

Affiliation Phone:

Affiliation Type Desc: Local Agency Caseworker

FRESNO COUNTY DPH, ENVIRONMENTAL HEALTH DIV - FRESNO COUNTY Entity Name:

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:

WESTSIDE FORD LINCOLN MERCURY LUST S121307881 NW **1503 EIGHTH STREET** Cortese N/A

1/2-1 FIREBAUGH, CA 93622 0.805 mi.

72

4253 ft.

Relative: LUST: Higher Name: WESTSIDE FORD LINCOLN MERCURY

1503 EIGHTH STREET Address: Actual: City,State,Zip: FIREBAUGH, CA 93622 149 ft.

CENTRAL VALLEY RWQCB (REGION 5F) Lead Agency:

Case Type: **LUST Cleanup Site**

Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011142

Global Id: T10000011142 Latitude: 36.86227 -120.46004 Longitude:

Status: Open - Remediation Status Date: 10/13/2022

Case Worker: MLE RB Case Number: 5T10000931 Local Agency: Not reported

File Location: Not reported Local Case Number: Not reported Potential Media Affect:

Aquifer used for drinking water supply, Indoor Air, Soil, Soil Vapor Potential Contaminants of Concern: Benzene, Ethylbenzene, Gasoline, MTBE / TBA / Other Fuel Oxygenates,

Naphthalene, Toluene, Xylene

EPA Region:

Coordinate Source: Not reported

Cuf Case: NO Notify 65

CERS

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

Quantity Released Gallons: Not reported Begin Date: 07/24/2017
Leak Reported Date: 12/05/2017
How Discovered: Tank Closure How Discovered Description: Not reported Discharge Source: Piping, Tank Discharge Cause: Unknown

Stop Method: Close and Remove Tank

Stop Description: Not reported No Further Action Date: Not reported

CA Water Watershed Name: Delta-Mendota Canal - Los Banos (541.20)
Dwr Groundwater Subbasin Name: San Joaquin Valley - Delta-Mendota (5-022.07)

Disadvantaged Community: Severely Disadvantaged Community

CA Enviroscreen 3 Score: 81-85%
CA Enviroscreen 4 Score: 90-95%
Military DOD Site: No

Facility Project Subtype: Not reported

RWQCB Region: CENTRAL VALLEY RWQCB (REGION 5F)

Site History: Not reported

LUST:

Global Id: T10000011142

Contact Type: Regional Board Caseworker - Primary Caseworker

Contact Name: MICHEALE EASLEY

Organization Name: CENTRAL VALLEY RWQCB (REGION 5F)

Address: 1685 E Street City: FRESNO

Email: micheale.easley@waterboards.ca.gov

Phone Number: 5594884391

LUST:

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 07/24/2017

Action: Site Visit / Inspection / Sampling

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 12/05/2017

Action: Referral to Regional Board

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 02/18/2020

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 08/10/2022

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 Other

 Date:
 12/05/2017

 Action:
 Leak Reported

Global Id: T10000011142

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

Action Type: **ENFORCEMENT** 12/05/2017 Date:

Action: Notification - Proposition 65

Global Id: T10000011142 **ENFORCEMENT** Action Type: Date: 01/15/2020 Staff Letter Action:

Global Id: T10000011142 Action Type: **ENFORCEMENT** Date: 05/30/2019 Staff Letter Action:

T10000011142 Global Id: Action Type: **ENFORCEMENT** Date: 08/01/2019 Staff Letter Action:

Global Id: T10000011142 Action Type: **ENFORCEMENT** 10/31/2019 Date: Action: Staff Letter

Global Id: T10000011142 Action Type: **ENFORCEMENT** Date: 09/04/2020 Action: Staff Letter

T10000011142 Global Id: Action Type: **ENFORCEMENT** Date: 06/14/2022 Action: Staff Letter

T10000011142 Global Id: Other Action Type: Date: 07/25/2017 Action: Leak Began

T10000011142 Global Id: RESPONSE Action Type: Date: 12/01/2022

Action: CAP/RAP - Other Report

Global Id: T10000011142 Action Type: **RESPONSE** Date: 08/01/2023

Action: Monitoring Report - Quarterly

T10000011142 Global Id: Action Type: **RESPONSE** Date: 02/01/2023

Monitoring Report - Quarterly Action:

T10000011142 Global Id: Action Type: **RESPONSE** Date: 05/01/2023

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 11/01/2022

Action: Monitoring Report - Semi-Annually

Global Id: T10000011142
Action Type: RESPONSE
Date: 10/08/2018

Action: Other Workplan - Regulator Responded

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 04/01/2019

Action: Other Report / Document - Regulator Responded

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 03/19/2018

Action: Preliminary Site Assessment Workplan - Regulator Responded

Global Id: T10000011142
Action Type: RESPONSE
Date: 02/01/2020

Action: Other Workplan - Regulator Responded

Global Id: T10000011142
Action Type: RESPONSE
Date: 05/07/2018

Action: Other Report / Document - Regulator Responded

Global Id: T10000011142
Action Type: RESPONSE
Date: 09/19/2022

Action: Corrective Action Plan / Remedial Action Plan - Regulator Responded

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 12/05/2018

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 02/14/2019

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 01/03/2018

 Action:
 Other Report

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 05/08/2018

 Action:
 Staff Letter

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 12/21/2021

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 11/16/2020

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 11/01/2022

 Action:
 Staff Letter

Global Id: T10000011142
Action Type: RESPONSE
Date: 12/05/2017

Action: Tank Removal Report / UST Sampling Report

Global Id: T10000011142
Action Type: RESPONSE
Date: 06/22/2018

Action: Other Report / Document

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 02/01/2019

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 11/01/2019

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 05/01/2019

Action: Monitoring Report - Quarterly

Global Id: T10000011142
Action Type: RESPONSE
Date: 05/01/2020

Action: Soil and Water Investigation Report

Global Id: T10000011142
Action Type: RESPONSE
Date: 05/01/2019

Action: Monitoring Report - Quarterly

Global Id: T10000011142
Action Type: RESPONSE
Date: 08/01/2019

Action: Monitoring Report - Quarterly

Global Id: T10000011142 Action Type: RESPONSE

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

Date: 05/01/2021

Action: Monitoring Report - Semi-Annually

Global Id: T10000011142
Action Type: RESPONSE
Date: 11/01/2018

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 08/01/2022

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 05/01/2022

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 08/10/2018

 Action:
 Staff Letter

Global Id: T10000011142
Action Type: ENFORCEMENT
Date: 12/05/2017

Action: Unauthorized Release Form

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 02/01/2019

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 01/25/2018

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 01/31/2023

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 10/13/2022

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 Other

 Date:
 07/24/2017

 Action:
 Leak Stopped

Global Id: T10000011142
Action Type: RESPONSE
Date: 05/01/2019

Action: Other Report / Document

Direction
Distance
Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 02/01/2020

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 RESPONSE

 Date:
 03/26/2018

 Action:
 Proposed Plan

Global Id: T10000011142
Action Type: RESPONSE
Date: 08/03/2020

Action: Monitoring Report - Quarterly

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 03/12/2018

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 11/27/2018

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 01/03/2018

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 04/16/2020

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 03/30/2023

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 07/07/2023

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 ENFORCEMENT

 Date:
 03/30/2023

 Action:
 Staff Letter

 Global Id:
 T10000011142

 Action Type:
 Other

 Date:
 07/25/2017

 Action:
 Leak Discovery

LUST:

Global Id: T10000011142

Direction Distance

Elevation Site Database(s) EPA ID Number

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

Status: Open - Case Begin Date

Status Date: 07/24/2017

Global Id: T10000011142

Status: Open - Site Assessment

Status Date: 12/06/2017

Global Id: T10000011142
Status: Open - Remediation

Status Date: 10/13/2022

CORTESE:

Name: WESTSIDE FORD LINCOLN MERCURY

Address: 1503 EIGHTH STREET City, State, Zip: FIREBAUGH, CA 93622

Region: CORTESE
Envirostor Id: Not reported
Global ID: T10000011142
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - REMEDIATION

Status Date: Not reported Site Code: Not reported Not reported Latitude: Not reported Longitude: Owner: Not reported Not reported Enf Type: Swat R: Not reported Flag: active Not reported Order No: Waste Discharge System No: Not reported Not reported Effective Date: Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported File Name: Active Open

NOTIFY 65:

Name: WESTSIDE FORD LINCOLN MERCURY

Address: 1503 EIGHTH STREET City, State, Zip: FIREBAUGH, CA 93622

Date Reported: Not reported Staff Initials: Not reported Board File Number: Not reported Facility Type: Not reported Discharge Date: Not reported Issue Date: Not reported Incident Description: Not reported Not reported Global ID: Status: Not reported

Name: WESTSIDE FORD LINCOLN MERCURY

Address: 1503 EIGHTH STREET City, State, Zip: FIREBAUGH, CA 93622

Date Reported: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

WESTSIDE FORD LINCOLN MERCURY (Continued)

S121307881

EDR ID Number

Staff Initials: Not reported Not reported Board File Number: Not reported Facility Type: Discharge Date: Not reported Issue Date: 12/05/2017 Incident Description: Not reported Not reported Global ID: Status: Not reported

CERS:

WESTSIDE FORD LINCOLN MERCURY Name:

Address: 1503 EIGHTH STREET FIREBAUGH, CA 93622 City,State,Zip:

Site ID: 773738 CERS ID: T10000011142

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker

MICHEALE EASLEY - CENTRAL VALLEY RWQCB (REGION 5F) **Entity Name:**

Entity Title: Not reported Affiliation Address: 1685 E Street Affiliation City: **FRESNO** Affiliation State: CA Affiliation Country:

Not reported Affiliation Zip: Not reported 5594884391, Affiliation Phone:

P73 TRI-AIR, INCORPORATED **HIST Cal-Sites** S101272714 West 915 TENTH STREET Cortese N/A FIREBAUGH, CA 93622

0.871 mi.

1/2-1

4601 ft. Site 1 of 2 in cluster P

Relative: Calsite: Higher Name:

TRI-AIR, INCORPORATED 915 TENTH STREET Address: Actual: **FIREBAUGH** City: 152 ft.

SACRAMENTO Region: Facility ID: 10070021 Facility Type: RP

Type: **RESPONSIBLE PARTY**

Branch: CC

CENTRAL CALIFORNIA Branch Name:

File Name: Not reported State Senate District: 05011986

ANNUAL WORKPLAN (AWP) - ACTIVE SITE Status: ANNUAL WORKPLAN - ACTIVE SITE Status Name: Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL

NPL: Not Listed SIC Code: 07

SIC Name: AGRICULTURAL SERVICES

Access: Not reported Cortese: Not reported

Hazardous Ranking Score: Not reported Date Site Hazard Ranked: Not reported Groundwater Contamination: Suspected

Map ID MAP FINDINGS
Direction

Distance Elevation Site

n Site Database(s) EPA ID Number

TRI-AIR, INCORPORATED (Continued)

S101272714

EDR ID Number

Staff Member Responsible for Site:
Supervisor Responsible for Site:
Region Water Control Board:
Region Water Control Board Name:
Lat/Long Direction:
Lat/Long (dms):
Lat/long Method:
Not reported

State Assembly District Code: 31
State Senate District Code: 16
Facility ID: 10070021
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported

Proposed Budget: 0

AWP Completion Date:

Revised Due Date:

Comments Date:

Not reported
Not reported
03051982

Est Person-Yrs to complete: 0

Estimated Size: Not reported Request to Delete Activity: Not reported

Activity Status: AWP

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Well Decommissioned:
Action Included Capping:
Well Decommissioned:
Not reported
Not reported
Not reported

Removal Action Certification:
Activity Comments:
Not reported
Not reported
Not reported

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 10070021

Activity: ORDER

Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA

AWP Code: ISE Proposed Budget: 0

AWP Completion Date:

Revised Due Date:

Comments Date:

Est Person-Yrs to complete:

Not reported
Not reported
03291991

0 0

Estimated Size: Not reported Request to Delete Activity: Not reported

Activity Status: AWP

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Action Included Capping:

Well Decommissioned:

Action Included Fencing:

Removal Action Certification:

Activity Comments:

Not reported

Not reported

Not reported

Not reported

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TRI-AIR, INCORPORATED (Continued)

S101272714

Unknown Type: 0

10070021 Facility ID: Activity: **FRIFS**

Activity Name: FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY

AWP Code: SOIL Proposed Budget:

AWP Completion Date: Not reported Not reported Revised Due Date: Comments Date: 06291993

Est Person-Yrs to complete:

Estimated Size: Not reported Not reported Request to Delete Activity: Activity Status: **AWP**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 10070021 Activity: **STAB**

Activity Name: LONG-TERM SITE STABILIZATION CERTIFICATION

AWP Code: Not reported

Proposed Budget:

AWP Completion Date: Not reported Revised Due Date: Not reported Comments Date: 10151993

Est Person-Yrs to complete:

Estimated Size: Not reported Not reported Request to Delete Activity: Activity Status: **AWP**

ANNUAL WORKPLAN - ACTIVE SITE **Definition of Status:**

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Not reported Removal Action Certification: **Activity Comments:** Not reported

For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 10070021 Activity:

REMEDIAL INVESTIGATION / FEASIBILITY STUDY Activity Name:

AWP Code: GW Proposed Budget: AWP Completion Date: 07302005 Revised Due Date: Not reported Comments Date: Not reported

MAP FINDINGS Map ID Direction

Distance

Elevation Site Database(s) **EPA ID Number**

TRI-AIR, INCORPORATED (Continued)

S101272714

EDR ID Number

Est Person-Yrs to complete:

Not reported Estimated Size: Request to Delete Activity: Not reported Activity Status: AWP

ANNUAL WORKPLAN - ACTIVE SITE Definition of Status:

0

Liquids Removed (Gals): Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0

Facility ID: 10070021 Activity: **RAP**

Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION

AWP Code: Not reported

Proposed Budget:

AWP Completion Date: 02282006 Revised Due Date: Not reported Comments Date: Not reported

Est Person-Yrs to complete: Estimated Size: S

Request to Delete Activity:

Not reported **Activity Status: AWP**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0

10070021 Facility ID: Activity: DES Activity Name: **DESIGN** AWP Code: Not reported

Proposed Budget:

AWP Completion Date: 08312006 Revised Due Date: Not reported Comments Date: Not reported

Est Person-Yrs to complete: 0 Estimated Size: S

Request to Delete Activity: Not reported Activity Status:

ANNUAL WORKPLAN - ACTIVE SITE **Definition of Status:**

Liquids Removed (Gals): Liquids Treated (Gals):

Action Included Capping: Not reported Well Decommissioned: Not reported

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

TRI-AIR, INCORPORATED (Continued)

S101272714

EDR ID Number

Action Included Fencing: Not reported Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 10070021 Activity: CERT

Activity Name: CERTIFICATION AWP Code: Not reported

Proposed Budget: AWP Completion Date: 08312008 Revised Due Date: Not reported Comments Date: Not reported

Est Person-Yrs to complete:

Not reported Estimated Size: Request to Delete Activity: Not reported Activity Status: **AWP**

ANNUAL WORKPLAN - ACTIVE SITE Definition of Status:

Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Not reported Action Included Fencing: Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 10070021 Activity: **RMDL**

REMEDIAL ACTION (RAP REQUIRED) Activity Name:

AWP Code: Not reported

Proposed Budget: AWP Completion Date: 08312007 Revised Due Date: Not reported Not reported Comments Date:

Est Person-Yrs to complete: 0

Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: **AWP**

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Liquids Removed (Gals): 0 Liquids Treated (Gals):

Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 10070021 Activity: **ENFFU**

Direction Distance

EDR ID Number Elevation **EPA ID Number** Site Database(s)

TRI-AIR, INCORPORATED (Continued)

S101272714

Activity Name: ENFORCEMENT FOLLOW UP, AG OR DA REFERRAL, ETC.

AWP Code: SOF Proposed Budget: O

AWP Completion Date: Not reported Revised Due Date: Not reported 11132000 Comments Date: Est Person-Yrs to complete: n

Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: **AWP**

ANNUAL WORKPLAN - ACTIVE SITE **Definition of Status:**

Liquids Removed (Gals): Liquids Treated (Gals): 0

Action Included Capping: Not reported Well Decommissioned: Not reported Not reported Action Included Fencing: Removal Action Certification: Not reported **Activity Comments:** Not reported

For Commercial Reuse: For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0

915 TENTH STREET Alternate Address: Alternate City, St, Zip: FIREBAUGH, CA 93622

Alternate Address: PO BOX 486 Alternate City,St,Zip: FIREBAUGH, CA

Background Info: Tri-Air, Incorporated (Tri-Air) is an aerial agricultural

chemical application business. The site is located adjacent to the Firebaugh Airport. Waste produced at the time of the documented discharges included pesticide wash/rinse water, empty containers and pesticide spillage produced during routine daily operations.

In 1982, pursuant to waste discharge requirements by the Regional Water Quality Control Board, a wash water treatment unit was installed and discharges of wash/rinse water ceased. Additionally, the empty containers which were stored onto the ground surface were disposed. Tri-Air now collects empty containers in a closed bin and disposes of the bin in accordance with pesticide regulations which pertain to empty containers. In March 1991, DTSC issued an Imminent or Substantial Endanger ment Order to Tri-Air which required Tri-Air to determine the extent of contamination in the empty container storage area and in groundwater. Subsequent investigation conducted by Tri-Air identified concentrations of DDT, paraquat and dinoseb in the surface soils in the area where empty containers were stored. Four monitoring wells were placed into the first encountered groundwater to obtain groundwater samples for laboratory analyses. Analyses of groundwater samples from one well, located directly adjacent to the above ground fuel storage tank, identified the presence of petroleum hydrocarbons (gasoline), and the associated Benezene, Toluene, and Xylene. In addition, paraquat and dinoseb were in samples from the same well. The former empty container storage area was sealed with a soil stabilizer to prevent emissions of dust from that area. The first encountered groundwater occurs in a predominately silty/ clay strata. The City of Firebaugh obtains its water from a deep well field within two miles of the site.

Direction Distance

Elevation Site Database(s) EPA ID Number

TRI-AIR, INCORPORATED (Continued)

S101272714

EDR ID Number

Comments Date: 03051982

Comments: Facility identified from phone book.

Comments Date: 03151982 Comments: Questionnaire sent.

Comments Date: 05071982

Comments: Questionnaire received.

Comments Date: 06291993

Comments: FRI/FS (SOIL) -- Focused Remedial Investigation and

Comments Date: 06291993

Comments: Feasibility Study completed for the effected soil in the

Comments Date: 06291993

Comments: former empty container storage area. Feasibility Study

Comments Date: 06291993

Comments: evaluated potential remedial alternatives which may be

Comments Date: 06291993
Comments: applicable.
Comments Date: 06291993
Comments: Not reported
Comments Date: 07251991

Comments: Aerial agricultural chemical application business.

Comments Date: 07251991

Comments: Contaminants include ethion, paraquat, dinitro, DDT, DDE,

Comments Date: 07251991
Comments: and toxaphene.
Comments Date: 08251982
Comments: Facility Drive-By.
Comments Date: 09071982

Comments: Site referred to HWMB/Enforcement.

Comments Date: 10151993

Comments: STABILIZATION -- Reapplication of sealant to surface soils

Comments Date: 10151993

Comments: in the impacted area. Approximately .3 acres of area was

Comments Date: 10151993

Comments: sprayed and stabilized.

Comments Date: 10301992

Comments: HRS completed October 1992. Soil contamination

Comments Date: 10301992

Comments: verified and ground water suspected on site.

Comments Date: 10301992

Comments: The Department is providing oversight to remediate

Comments Date: 10301992

Comments: on site contamination.

Comments Date: 11302000

Comments: ENFFU/SOF - Referral of Statement of Facts to Deputy Attorney

Comments Date: 11302000

Comments: General's Office for the purpose of cost recovery and injunctive

Comments Date: 11302000 Comments: relief.

ID Name: BEP DATABASE PCODE

ID Value: P12072

ID Name: EPA IDENTIFICATION NUMBER

ID Value: CAD053250759
ID Name: CALSTARS CODE

ID Value: 100149

Alternate Name: TRI-AIR, INCORPORATED

Alternate Name: Not reported Special Programs Code: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TRI-AIR, INCORPORATED (Continued)

S101272714

Special Programs Name: Not reported

CORTESE:

Name: TRI-AIR, INCORPORATED Address: 915 TENTH STREET FIREBAUGH, CA 93622 City, State, Zip:

Region: CORTESE Envirostor Id: 10070021 Global ID: Not reported

STATE RESPONSE Site/Facility Type:

Cleanup Status: **ACTIVE - LAND USE RESTRICTIONS** Status Date: 05/01/1986

Site Code: 100149, 102192 Latitude: 36.856694 Longitude: -120.46389 Owner: Not reported Enf Type: Not reported Swat R: Not reported Flag: envirostor Order No: Not reported Not reported Waste Discharge System No: Effective Date: Not reported

Region 2: Not reported WID Id: Not reported Solid Waste Id No: Not reported Waste Management Uit Name: Not reported

Haz Waste & Substances Sites File Name:

P74 TRI-AIR, INC. RESPONSE S100833499 West 915 TENTH STREET **ENVIROSTOR** N/A

1/2-1 FIREBAUGH, CA 93622 0.871 mi.

DEED CA BOND EXP. PLAN

4601 ft. Site 2 of 2 in cluster P

Relative: RESPONSE:

Higher TRI-AIR, INCORPORATED Name: 915 TENTH STREET Actual: Address: FIREBAUGH, CA 93622 City,State,Zip: 152 ft.

Facility ID: 10070021 Site Type: State Response Site Type Detail: State Response or NPL

Acres: National Priorities List: NO Cleanup Oversight Agencies: **SMBRP**

Lead Agency Description: DTSC - Site Cleanup Program

Project Manager: Scott Yuen Supervisor: Joseph Tapia

Division Branch: Engineering & Special Projects

Site Code: 102192

Site Mgmt. Req.: NONE SPECIFIED Assembly: 27

Senate: 14 Special Program Status: Not reported Status: Active Status Date: 05/01/1986 Restricted Use: YES

Responsible Party Funding:

Direction Distance

Elevation Site Database(s) EPA ID Number

TRI-AIR, INC. (Continued) S100833499

Latitude: 36.85669 Longitude: -120.4638 APN: 00823002S

Past Use: AIRCRAFT MAINTENANCE, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE

Potential COC: Benzene TPH-gas Dinoseb Paraquat Toluene Xylenes

Confirmed COC: 30003-NO 30025-NO 30244-NO 30550-NO 30440-NO 30593-NO

Potential Description: OTH, SOIL
Alias Name: 00823002S
Alias Type: APN

Alias Name: CAD053250759

Alias Type: EPA Identification Number

 Alias Name:
 110011645915

 Alias Type:
 EPA (FRS #)

 Alias Name:
 SLT5FQ404333

 Alias Type:
 GeoTracker Global ID

Alias Name: P12072
Alias Type: PCode
Alias Name: 100149

Alias Type: Project Code (Site Code)

Alias Name: 102192

Alias Type: Project Code (Site Code)

Alias Name: 10070021

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Feasibility Study Workplan

Completed Date: 06/29/1993

Comments: FRI/FS (SOIL) -- Focused Remedial Investigation and Feasibility Study

completed for the effected soil in the former empty container storage area. Feasibility Study evaluated potential remedial alternatives

which may be applicable.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 01/13/2022 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Report

Completed Date: 08/31/2015 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Pilot Study/Treatability Workplan

Completed Date: 11/20/2008

Comments: Work plan for pilot study completed. Additional sample points to be

added as determined from study as part of completion of RI.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/26/2020
Comments: Not reported

EDR ID Number

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

TRI-AIR, INC. (Continued) S100833499

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: **Public Notice** Completed Date: 07/30/2020 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Consent Decree Completed Date: 03/12/2012

Signed Consent Decree. Signed March 9, 2012 and Filed by the Court Comments:

March 12, 2012

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: Land Use Restriction

Completed Date: 06/10/2012

Comments: Land Use Covenant restricting site use to commercial/industrial

recorded 6/6/2012 and received from Fresno County 6/28/2012.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Removal Action Completion Report Completed Document Type:

Completed Date: 10/15/1993

Comments: STABILIZATION -- Reapplication of sealant to surface soils in the

impacted area. Approximately .3 acres of area was sprayed and

stabilized.

PROJECT WIDE Completed Area Name: Not reported Completed Sub Area Name: Inspection Warrant Completed Document Type: Completed Date: 02/21/2007

Comments: Warrant to access Lorenzetti property for the purpose of obtaining

groundwater samples.

Completed Area Name: **PROJECT WIDE** Completed Sub Area Name: Not reported

Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)

Completed Date: 03/29/1991

Comments: Imminent and Sustantial Endangerment and Remedial Action Order:

Requiring Investigation and subsequent response action pursuant to

findings of the Remedial Investigation and Feasibility Study.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported Completed Document Type: * Discovery Completed Date: 03/05/1982

Comments: Facility identified from phone book.

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Community Profile Completed Date: 11/05/2021 Comments: Not reported

PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

TRI-AIR, INC. (Continued) S100833499

Completed Document Type: Public Notice
Completed Date: 11/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/10/2021
Comments: Not reported

PROJECT WIDE Future Area Name: Future Sub Area Name: Not reported Future Document Type: Certification Future Due Date: 2024 Schedule Area Name: Not reported Schedule Sub Area Name: Not reported Not reported Schedule Document Type: Schedule Due Date: Not reported Schedule Revised Date: Not reported

ENVIROSTOR:

Name: TRI-AIR, INCORPORATED
Address: 915 TENTH STREET
City,State,Zip: FIREBAUGH, CA 93622

Facility ID: 10070021
Status: Active
Status Date: 05/01/1986
Site Code: 102192
Site Type: State Response
Site Type Detailed: State Response or NPL

Acres: 2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

Lead Agency: SMBRP
Program Manager: Scott Yuen
Supervisor: Joseph Tapia

Division Branch: Engineering & Special Projects

Assembly: 27 Senate: 14

Special Program: Not reported Restricted Use: YES

Site Mgmt Req: NONE SPECIFIED Funding: Responsible Party Latitude: 36.85669

Longitude: -120.4638 APN: 00823002S

Past Use: AIRCRAFT MAINTENANCE, PESTICIDE/INSECTIDE/RODENTICIDE STORAGE

Potential COC: Benzene TPH-gas Dinoseb Paraquat Toluene Xylenes

Confirmed COC: 30003-NO 30025-NO 30244-NO 30550-NO 30440-NO 30593-NO

Potential Description: OTH, SOIL
Alias Name: 00823002S
Alias Type: APN

Alias Name: CAD053250759

Alias Type: EPA Identification Number

Alias Name: 110011645915 Alias Type: EPA (FRS #) Alias Name: SLT5FQ404333 **EDR ID Number**

Direction Distance

Elevation Site Database(s) EPA ID Number

TRI-AIR, INC. (Continued)

Alias Type: GeoTracker Global ID

Alias Name: P12072 Alias Type: PCode Alias Name: 100149

Alias Type: Project Code (Site Code)

Alias Name: 102192

Alias Type: Project Code (Site Code)

Alias Name: 10070021

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Feasibility Study Workplan

Completed Date: 06/29/1993

Comments: FRI/FS (SOIL) -- Focused Remedial Investigation and Feasibility Study

completed for the effected soil in the former empty container storage area. Feasibility Study evaluated potential remedial alternatives

which may be applicable.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Workplan

Completed Date: 01/13/2022 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Remedial Investigation Report

Completed Date: 08/31/2015 Comments: Not reported

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Pilot Study/Treatability Workplan

Completed Date: 11/20/2008

Comments: Work plan for pilot study completed. Additional sample points to be

added as determined from study as part of completion of RI.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/26/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/30/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Decree
Completed Date: 03/12/2012

Comments: Signed Consent Decree. Signed March 9, 2012 and Filed by the Court

March 12, 2012

EDR ID Number

S100833499

Direction Distance

Elevation Site Database(s) EPA ID Number

TRI-AIR, INC. (Continued) S100833499

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction

Completed Date: 06/10/2012

Comments: Land Use Covenant restricting site use to commercial/industrial recorded 6/6/2012 and received from Fresno County 6/28/2012.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Removal Action Completion Report

Completed Date: 10/15/1993

Comments: STABILIZATION -- Reapplication of sealant to surface soils in the

impacted area. Approximately .3 acres of area was sprayed and

stabilized.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inspection Warrant
Completed Date: 02/21/2007

Comments: Warrant to access Lorenzetti property for the purpose of obtaining

groundwater samples.

Completed Area Name: PROJECT WIDE Completed Sub Area Name: Not reported

Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)

Completed Date: 03/29/1991

Comments: Imminent and Sustantial Endangerment and Remedial Action Order:
Requiring Investigation and subsequent response action pursuant to

findings of the Remedial Investigation and Feasibility Study.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/05/1982

Comments: Facility identified from phone book.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 11/05/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/10/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 11/10/2021
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification

EDR ID Number

Direction Distance

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

TRI-AIR, INC. (Continued) S100833499

Future Due Date: 2024
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

DEED:

Name: TRI-AIR, INCORPORATED
Address: 915 TENTH STREET
City,State,Zip: FIREBAUGH, CA 93622

Envirostor ID: 10070021
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE

Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported

File Name: Envirostor Land Use Restrictions

CA BOND EXP. PLAN:

Reponsible Party: BACKLOG SITE CLEANUP PLANNING REPORT

Project Revenue Source Company: Not reported Project Revenue Source Addr: Not reported Project Revenue Source City, St, Zip: Not reported

Project Revenue Source Desc: The site is scheduled to be remediated by the responsible party with

reimbursement to DHS for its oversight/monitoring costs. If the RPs are unable to fund site investigation and remediation, another source of funds will need

to be identified.

Site Description: Tri-Air, Inc. is an aerial agricultural chemical application business. Wastes

produced at the site consist of pesticide contaminated wash/rinse water, empty containers and pesticide spillage produced during routine daily operations.

Hazardous Waste Desc: Ethion, paraquat, and dinitro have been identified in onsite soils.

2,4-dichlorophenoxyacetic acid (2,4-D), 2-methyl-4-chlorophenoxyacetic acid (MCPA), and dinitro were identified in a ground water sample obtained from

beneath the site.

Threat To Public Health & Env: Due to the shallow depth of ground water, approximately eight feet beneath the

site, there is a high potential for the degradation/contamination of drinking water supplies. Analytical results indicate that shallow (perched) ground water has already been affected. Ground water is the primary source of drinking and irrigation water for the area near the site. The entire City of Firebaugh lies

within approximately two miles of the site.

Site Activity Status: The first phase of a remedial investigation of the site has been completed. An

additional phase will be necessary to fully characterize the site.

75 VALLEY HEALTH TEAM - FIREBAUGH

ENVIROSTOR S127094030

N/A

NW 689 N STREET 1/2-1 FIREBAUGH, CA 93622

0.906 mi. 4785 ft.

Relative: ENVIROSTOR:

Higher Name: VALLEY HEALTH TEAM - FIREBAUGH

Actual: Address: 689 N STREET

151 ft. City,State,Zip: FIREBAUGH, CA 93622

Facility ID: 60003090

Direction Distance

Elevation Site Database(s) EPA ID Number

VALLEY HEALTH TEAM - FIREBAUGH (Continued)

S127094030

EDR ID Number

Status: No Action Required Status Date: 01/20/2022

Status Date: 01/20/2022
Site Code: 102424
Site Type: Calmortgage
Site Type Detailed: Calmortgage
Acres: 0.78

Acres: 0.78
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP

Program Manager: Andrew Reimanis Supervisor: Juan Peng

Division Branch: Cleanup Sacramento

Assembly: 27 Senate: 14

Special Program: Not reported

Restricted Use: NO

Site Mgmt Req: NONE SPECIFIED Funding: CalMortgage Latitude: 36.86253 Longitude: -120.4616

APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 102424

Alias Name. 102424

Alias Type: Project Code (Site Code)

Alias Name: 60003090

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/05/2021
Comments: Not reported

Future Area Name: Not reported Future Sub Area Name: Not reported Not reported Future Document Type: Not reported Future Due Date: 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: 0 records. ORPHAN SUMMARY

City EDR ID Site Name Site Address Zip Database(s)

NO SITES FOUND

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

Lists of Federal NPL (Superfund) sites

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: 02/29/2024 Source: EPA Date Data Arrived at EDR: 03/01/2024 Telephone: N/A

Date Made Active in Reports: 03/27/2024 Last EDR Contact: 04/02/2024

Number of Days to Update: 26 Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Quarterly

NPL Site Boundaries

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 **EPA Region 8**

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 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: 02/29/2024 Date Data Arrived at EDR: 03/01/2024

Date Made Active in Reports: 03/27/2024

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/08/2024 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

Lists of Federal Delisted NPL sites

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: 02/29/2024 Date Data Arrived at EDR: 03/01/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 12/20/2023 Date Data Arrived at EDR: 12/20/2023 Date Made Active in Reports: 01/24/2024

Number of Days to Update: 35

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 03/26/2024

Next Scheduled EDR Contact: 07/08/2024 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 know 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: 01/29/2024 Date Data Arrived at EDR: 02/01/2024 Date Made Active in Reports: 02/22/2024

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/22/2024 Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

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: 01/29/2024 Date Data Arrived at EDR: 02/01/2024 Date Made Active in Reports: 02/22/2024

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/22/2024 Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Quarterly

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: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 02/14/2024 Date Data Arrived at EDR: 02/16/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 48

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/02/2024

Next Scheduled EDR Contact: 05/20/2024 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: 02/13/2024 Date Data Arrived at EDR: 02/21/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 43

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/21/2024

Next Scheduled EDR Contact: 06/03/2024 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: 02/13/2024 Date Data Arrived at EDR: 02/21/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 43

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/21/2024

Next Scheduled EDR Contact: 06/03/2024

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: 12/12/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 77

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

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: 01/22/2024 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/08/2024

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes 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: 01/22/2024 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/08/2024

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

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: 11/06/2023 Date Data Arrived at EDR: 11/07/2023 Date Made Active in Reports: 02/05/2024

Number of Days to Update: 90

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 02/06/2024

Next Scheduled EDR Contact: 05/20/2024 Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

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.

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Quarterly

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

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 Date Data Arrived at EDR: 04/23/2001

Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 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 Date Data Arrived at EDR: 02/15/2005 Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 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 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 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 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 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011
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 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012
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 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 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 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

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: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/25/2023

Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/25/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

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: 10/04/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024

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: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/27/2024

Number of Days to Update: 84

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

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

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

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 11/16/2023 Date Data Arrived at EDR: 11/16/2023 Date Made Active in Reports: 02/13/2024

Number of Days to Update: 89

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/15/2024

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.

Date of Government Version: 11/28/2023 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 02/27/2024

Number of Days to Update: 89

Source: State Water Resources Control Board

Telephone: 916-327-7844 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 03/08/2024

Next Scheduled EDR Contact: 06/24/2024

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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024

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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024

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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024

Data Release Frequency: Varies

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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/17/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024

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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 10/24/2023 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 56

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

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Lists of state and tribal voluntary cleanup sites

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: 01/22/2024 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/08/2024

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Quarterly

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 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/18/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds 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: 12/13/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 03/07/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 916-323-7905 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 08/15/2023 Date Data Arrived at EDR: 08/30/2023 Date Made Active in Reports: 12/01/2023

Number of Days to Update: 93

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/12/2024

Next Scheduled EDR Contact: 06/24/2024 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.

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: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 11/29/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/23/2024

Number of Days to Update: 86

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 02/13/2023

Number of Days to Update: 83

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 05/20/2024 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: 01/26/2024

Next Scheduled EDR Contact: 05/06/2024

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: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 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 Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Varies

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: 12/31/2023 Date Data Arrived at EDR: 02/21/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 43

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2024

Next Scheduled EDR Contact: 06/03/2024 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 Date Data Arrived at EDR: 08/03/2006 Date Made Active in Reports: 08/24/2006

Number of Days to Update: 21

Source: Department of Toxic Substance Control

Telephone: 916-323-3400 Last EDR Contact: 02/23/2009

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: 01/22/2024 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/08/2024

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 01/23/2024

Next Scheduled EDR Contact: 05/06/2024 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: 12/31/2021 Date Data Arrived at EDR: 09/28/2023 Date Made Active in Reports: 12/18/2023

Number of Days to Update: 81

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 03/08/2024

Next Scheduled EDR Contact: 05/13/2024

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 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous 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.

Date of Government Version: 01/16/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 78

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024 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: 12/31/2023 Date Data Arrived at EDR: 02/21/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 43

Source: Drug Enforcement Administration Telephone: 202-307-1000

Last EDR Contact: 02/21/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: Quarterly

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

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

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 10/30/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: San Francisco County Department of Public Health

Telephone: 415-252-3896 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024

Data Release Frequency: Varies

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

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: 01/16/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 78

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Quarterly

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: 11/21/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 02/26/2024

Next Scheduled EDR Contact: 06/10/2024

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: 02/29/2024 Date Data Arrived at EDR: 03/01/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

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: 11/22/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/15/2024

Number of Days to Update: 85

Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024 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: 12/12/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 77

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/20/2024

Next Scheduled EDR Contact: 07/01/2024 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: 12/31/2023 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/09/2024

Number of Days to Update: 77

Source: Office of Emergency Services

Telephone: 916-845-8400 Last EDR Contact: 01/18/2024

Next Scheduled EDR Contact: 04/29/2024 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: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/27/2024

Number of Days to Update: 84

Source: State Water Quality Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Quarterly

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 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 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: 12/04/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 12/12/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 01/30/2024 Date Data Arrived at EDR: 02/13/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 51

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 02/13/2024

Next Scheduled EDR Contact: 05/27/2024

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: 06/07/2021 Date Data Arrived at EDR: 07/13/2021 Date Made Active in Reports: 03/09/2022

Number of Days to Update: 239

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 01/10/2024

Next Scheduled EDR Contact: 04/22/2024

Data Release Frequency: Varies

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 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019

Number of Days to Update: 574

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024

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.

Date of Government Version: 07/30/2021 Date Data Arrived at EDR: 02/03/2023 Date Made Active in Reports: 02/10/2023

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/06/2024

Next Scheduled EDR Contact: 05/20/2024 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: 12/11/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 77

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/13/2024

Next Scheduled EDR Contact: 07/01/2024 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: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: No Update Planned

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: 02/02/2024

Next Scheduled EDR Contact: 05/13/2024

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: 12/31/2020 Date Data Arrived at EDR: 06/14/2022 Date Made Active in Reports: 03/24/2023

Number of Days to Update: 283

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/14/2024

Next Scheduled EDR Contact: 06/24/2024 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.

Date of Government Version: 12/31/2022 Date Data Arrived at EDR: 11/13/2023 Date Made Active in Reports: 02/07/2024

Number of Days to Update: 86

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 02/15/2024

Next Scheduled EDR Contact: 05/27/2024 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: 01/16/2024 Date Data Arrived at EDR: 01/17/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 70

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/17/2024

Next Scheduled EDR Contact: 04/29/2024 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: 02/29/2024 Date Data Arrived at EDR: 03/01/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 26

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 06/10/2024 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: 02/01/2024 Date Data Arrived at EDR: 02/08/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 56

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/12/2024

Next Scheduled EDR Contact: 04/29/2024 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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023 Date Data Arrived at EDR: 10/03/2023 Date Made Active in Reports: 10/19/2023

Number of Days to Update: 16

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 05/13/2024 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: 03/20/2023 Date Data Arrived at EDR: 04/04/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 66

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024 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 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 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 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

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 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667

Last EDR Contact: 08/18/2017

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: 01/02/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 57

Source: Nuclear Regulatory Commission

Telephone: 301-415-0717 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022 Date Data Arrived at EDR: 11/27/2023 Date Made Active in Reports: 02/22/2024

Number of Days to Update: 87

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 02/23/2024

Next Scheduled EDR Contact: 06/10/2024 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 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019

Number of Days to Update: 251

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 02/23/2024

Next Scheduled EDR Contact: 06/10/2024

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 Date Data Arrived at EDR: 11/06/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 96

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 02/02/2024

Next Scheduled EDR Contact: 05/13/2024 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 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 03/25/2024

Next Scheduled EDR Contact: 07/08/2024 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 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: 12/17/2007

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.

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 Transporation, 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 Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 01/05/2024

Next Scheduled EDR Contact: 05/06/2024 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: 12/31/2023 Date Data Arrived at EDR: 01/11/2024 Date Made Active in Reports: 01/16/2024

Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 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: 12/31/2021 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024 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: 03/03/2023 Date Data Arrived at EDR: 03/03/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 98

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 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.

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: 02/15/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 02/29/2024 Date Data Arrived at EDR: 03/01/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/02/2024

Next Scheduled EDR Contact: 07/08/2024 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 1931and 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

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024 Date Data Arrived at EDR: 01/03/2024 Date Made Active in Reports: 01/04/2024

Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi

Telephone: 202-693-9424 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 05/20/2024 Data Release Frequency: Quarterly

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: 02/05/2024 Date Data Arrived at EDR: 02/21/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/21/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: Semi-Annually

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: 01/07/2022 Date Data Arrived at EDR: 02/24/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 82

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 02/22/2024

Next Scheduled EDR Contact: 06/03/2024

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: 02/22/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 02/28/2023

Number of Days to Update: 98

Source: USGS

Telephone: 703-648-6533 Last EDR Contact: 02/22/2024

Next Scheduled EDR Contact: 06/03/2024

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: 11/28/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 12/11/2023

Number of Days to Update: 12

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/15/2024

Next Scheduled EDR Contact: 06/17/2024 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: 11/03/2023 Date Data Arrived at EDR: 11/08/2023 Date Made Active in Reports: 11/20/2023

Number of Days to Update: 12

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/17/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024 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: 05/06/2021 Date Data Arrived at EDR: 05/21/2021 Date Made Active in Reports: 08/11/2021

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 02/20/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023 Date Data Arrived at EDR: 09/13/2023 Date Made Active in Reports: 12/11/2023

Number of Days to Update: 89

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/08/2024

Next Scheduled EDR Contact: 07/22/2024 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: 02/12/2024 Date Data Arrived at EDR: 02/13/2024 Date Made Active in Reports: 04/04/2024

Number of Days to Update: 51

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/13/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 703-603-8895 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024

Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 01/04/2024

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-566-0250 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 01/04/2024

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 01/04/2024

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention, ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020 Date Data Arrived at EDR: 03/17/2021 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 601

Source: Department of Health & Human Services

Telephone: 202-741-5770 Last EDR Contact: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024

Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024

Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/28/2023 Date Data Arrived at EDR: 12/28/2023 Date Made Active in Reports: 03/04/2024

Number of Days to Update: 67

Source: Environmental Protection Agency

Telephone: 202-267-2675 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Varies

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: 03/29/2024

Next Scheduled EDR Contact: 07/15/2024

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: 12/16/2016 Date Data Arrived at EDR: 01/06/2017 Date Made Active in Reports: 03/10/2017

Number of Days to Update: 63

Source: EPA, Office of Water Telephone: 202-564-2496 Last EDR Contact: 03/29/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023 Date Data Arrived at EDR: 01/03/2024 Date Made Active in Reports: 01/16/2024

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 202-564-4700 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 04/29/2024

Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

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

Date of Government Version: 11/30/2023 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 02/26/2024

Number of Days to Update: 88

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/06/2024

Next Scheduled EDR Contact: 06/17/2024

Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 11/30/2023 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 02/23/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 916-341-5455 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

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 Date Data Arrived at EDR: 07/27/1994 Date Made Active in Reports: 08/02/1994

Number of Days to Update: 6

Source: Department of Health Services Telephone: 916-255-2118

Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 11/30/2023 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 02/23/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 916-341-5455 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

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: 12/13/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 03/07/2024

Number of Days to Update: 85

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 03/31/2023 Date Data Arrived at EDR: 05/08/2023 Date Made Active in Reports: 07/31/2023

Number of Days to Update: 84

Source: Livermore-Pleasanton Fire Department

Telephone: 925-454-2361 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/20/2024 Data Release Frequency: Varies

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: 11/14/2023 Date Data Arrived at EDR: 11/16/2023 Date Made Active in Reports: 02/12/2024

Number of Days to Update: 88

Source: South Coast Air Quality Management District

Telephone: 909-396-3211 Last EDR Contact: 02/20/2024

Next Scheduled EDR Contact: 06/03/2024

Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 04/17/2019 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 1475

Source: Santa Barbara County Air Pollution Control District

Telephone: 805-961-8867 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

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.

Date of Government Version: 11/21/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: Antelope Valley Air Quality Management District

Telephone: 661-723-8070 Last EDR Contact: 02/26/2024

Next Scheduled EDR Contact: 06/10/2024

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 04/27/2023 Date Made Active in Reports: 07/13/2023

Number of Days to Update: 77

Source: Amador Air Quality Management District

Telephone: 209-257-0112 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 01/04/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 02/08/2024

Number of Days to Update: 23

Source: Ventura County Air Pollution Control District

Telephone: 805-645-1421 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019 Date Data Arrived at EDR: 05/07/2019 Date Made Active in Reports: 05/01/2023 Number of Days to Update: 1455 Source: Northern Sierra Air Quality Management District

Telephone: 530-274-9350 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

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: 08/31/2023 Date Data Arrived at EDR: 09/08/2023 Date Made Active in Reports: 11/27/2023

Number of Days to Update: 80

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 03/08/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Annually

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/08/2023 Date Data Arrived at EDR: 08/09/2023 Date Made Active in Reports: 10/26/2023

Number of Days to Update: 78

Source: San Diego County Air Pollution Control District

Telephone: 858-586-2616 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019 Date Data Arrived at EDR: 04/24/2019 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 1468

Source: Tehama County Air Pollution Control District

Telephone: 530-527-3717 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 01/08/2024 Date Data Arrived at EDR: 01/10/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 77

Source: Glenn County Air Pollution Control District

Telephone: 530-934-6500 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 01/05/2024 Date Data Arrived at EDR: 01/10/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 77

Source: Santa Barbara County Air Pollution Control District

Telephone: 707-433-5911 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 01/03/2024 Date Data Arrived at EDR: 01/10/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 77

Source: Sacramento Metropolitan Air Quality Management District

Telephone: 916-874-3958 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management DistrictDrycleaner Facility Listing Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023 Date Data Arrived at EDR: 10/18/2023 Date Made Active in Reports: 01/16/2024

Number of Days to Update: 90

Source: Butte County Air Quality Management District

Telephone: 530-332-9400 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 06/05/2023

Number of Days to Update: 88

Source: Feather River Air Quality Management District

Telephone: 530-634-7659 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023 Date Data Arrived at EDR: 04/26/2023 Date Made Active in Reports: 07/14/2023

Number of Days to Update: 79

Source: Eastern Kern Air Pollution Control District

Telephone: 661-862-9684 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023 Date Data Arrived at EDR: 04/26/2023 Date Made Active in Reports: 07/14/2023

Number of Days to Update: 79

Source: Imperial County Air Pollution Control District

Telephone: 442-265-1800 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 04/27/2023 Date Data Arrived at EDR: 04/28/2023 Date Made Active in Reports: 07/14/2023

Number of Days to Update: 77

Source: Mendocino County Air Quality Management District

Telephone: 707-463-4354 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 04/27/2023 Date Made Active in Reports: 07/14/2023

Number of Days to Update: 78

Source: Mojave Desert Air Quality Management District

Telephone: 760-245-1661 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 01/04/2024 Date Data Arrived at EDR: 01/05/2024 Date Made Active in Reports: 03/20/2024

Number of Days to Update: 75

Source: Yolo-Solano Air Quality Management District

Telephone: 530-757-3650 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 04/27/2023 Date Made Active in Reports: 07/14/2023

Number of Days to Update: 78

Source: Shasta County Air Quality Management District

Telephone: 530-225-5674 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 01/03/2024 Date Data Arrived at EDR: 01/05/2024 Date Made Active in Reports: 03/20/2024

Number of Days to Update: 75

Source: Monterey Bay Air Quality Management District

Telephone: 831-647-9411 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024 Date Data Arrived at EDR: 01/04/2024 Date Made Active in Reports: 03/20/2024

Number of Days to Update: 76

Source: San Luis Obispo County Air Pollution Control District

Telephone: 805-781-5756 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023 Date Data Arrived at EDR: 05/17/2023 Date Made Active in Reports: 08/14/2023

Number of Days to Update: 89

Source: Placer County Air Quality Management District

Telephone: 530-745-2335 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 01/04/2024 Date Data Arrived at EDR: 01/04/2024 Date Made Active in Reports: 03/21/2024

Number of Days to Update: 77

Source: San Joaquin Valley Air Pollution Control District

Telephone: 559-230-6001 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019 Date Data Arrived at EDR: 05/30/2019 Date Made Active in Reports: 05/01/2023 Number of Days to Update: 1432

Source: Bay Area Air Quality Management District

Telephone: 415-516-1916 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 Data Release Frequency: Varies

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 1412

Source: Calaveras County Environmental Management Agency

Telephone: 209-754-6399 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/16/2019

Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List

Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 02/04/2021 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 816

Source: California Air Resources Board

Telephone: 916-323-0006 Last EDR Contact: 01/26/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 04/29/2019 Date Data Arrived at EDR: 05/07/2019 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 1455

Source: Lake County Air Quality Management District

Telephone: 707-263-7000 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023

Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016 Date Data Arrived at EDR: 04/19/2019 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 1473

Source: North Coast Unified Air Quality Management District

Telephone: 707-443-3093 Last EDR Contact: 01/03/2024

Next Scheduled EDR Contact: 09/11/2023 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: 12/31/2021 Date Data Arrived at EDR: 06/09/2023 Date Made Active in Reports: 08/30/2023

Number of Days to Update: 82

Source: California Air Resources Board Telephone: 916-322-2990

Last EDR Contact: 03/14/2024

Next Scheduled EDR Contact: 06/24/2024

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: 01/16/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 78

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024

Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/11/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 78

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024

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.

Date of Government Version: 11/08/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 02/20/2024

Next Scheduled EDR Contact: 05/20/2024

Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024 Date Data Arrived at EDR: 02/07/2024 Date Made Active in Reports: 02/07/2024

Number of Days to Update: 0

Source: Department of Toxic Subsances Control

Telephone: 877-786-9427 Last EDR Contact: 02/07/2024

Next Scheduled EDR Contact: 05/27/2024 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: 02/07/2024 Date Data Arrived at EDR: 02/07/2024 Date Made Active in Reports: 02/07/2024

Number of Days to Update: 0

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 02/07/2024

Next Scheduled EDR Contact: 05/27/2024 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: 01/02/2024 Date Data Arrived at EDR: 01/03/2024 Date Made Active in Reports: 03/21/2024

Number of Days to Update: 78

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Quarterly

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: 10/26/2023 Date Data Arrived at EDR: 10/27/2023 Date Made Active in Reports: 01/29/2024

Number of Days to Update: 94

Source: Department of Toxic Substances Control

Telephone: 916-324-2444 Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024

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: 12/31/2023 Date Data Arrived at EDR: 01/03/2024 Date Made Active in Reports: 03/21/2024

Number of Days to Update: 78

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 11/29/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/23/2024

Number of Days to Update: 86

Source: Department of Conservation

Telephone: 916-322-1080 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 11/08/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: Department of Public Health

Telephone: 916-558-1784 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024

Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/06/2023 Date Data Arrived at EDR: 11/07/2023 Date Made Active in Reports: 02/05/2024

Number of Days to Update: 90

Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 02/06/2024

Next Scheduled EDR Contact: 05/20/2024 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: 11/22/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: Department of Pesticide Regulation

Telephone: 916-445-4038 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Quarterly

PROC: Certified Processors Database A listing of certified processors.

Date of Government Version: 11/29/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/23/2024

Number of Days to Update: 86

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 12/06/2023 Date Data Arrived at EDR: 12/06/2023 Date Made Active in Reports: 02/29/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 03/08/2024

Next Scheduled EDR Contact: 06/24/2024 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: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing

Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities. The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018 Date Data Arrived at EDR: 06/23/2023 Date Made Active in Reports: 07/13/2023

Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services

Telephone: 831-454-2761 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Varies

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/29/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/27/2024

Number of Days to Update: 90

Source: Deaprtment of Conservation Telephone: 916-445-2408 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resource Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

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: 02/11/2021 Date Data Arrived at EDR: 07/01/2021 Date Made Active in Reports: 09/29/2021

Number of Days to Update: 90

Source: RWQCB, Central Valley Region

Telephone: 559-445-5577 Last EDR Contact: 04/04/2024

Next Scheduled EDR Contact: 07/15/2024

Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 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 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 03/15/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

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: 11/29/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/22/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 916-341-5810 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 11/22/2023 Date Data Arrived at EDR: 11/22/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 86

Source: State Water Resources Control Board

Telephone: 866-794-4977 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024 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: 01/16/2024 Date Data Arrived at EDR: 01/16/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 78

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024

Data Release Frequency: Varies

SAMPLING POINT: Sampling Point? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 12/04/2023 Date Data Arrived at EDR: 12/05/2023 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 85

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023 Date Data Arrived at EDR: 10/04/2023 Date Made Active in Reports: 01/18/2024

Number of Days to Update: 106

Source: Environmental Protection Agency

Telephone: 202-564-0394 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/20/2024 Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023 Date Data Arrived at EDR: 10/31/2023 Date Made Active in Reports: 01/18/2024

Number of Days to Update: 79

Source: Environmental Protecton Agency

Telephone: 202-564-0394 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/20/2024 Data Release Frequency: Semi-Annually

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 C

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.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: 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

Telephone: N/A Last EDR Contact: 06/01/2012

Source: Department of Resources Recycling and Recovery

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: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023 Date Data Arrived at EDR: 12/26/2023 Date Made Active in Reports: 03/19/2024

Number of Days to Update: 84

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 04/27/2023 Date Data Arrived at EDR: 04/27/2023 Date Made Active in Reports: 07/13/2023

Number of Days to Update: 77

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 04/26/2023

Next Scheduled EDR Contact: 05/13/2024

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: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 12/18/2023 Date Data Arrived at EDR: 12/18/2023 Date Made Active in Reports: 03/13/2024

Number of Days to Update: 86

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 03/15/2024

Next Scheduled EDR Contact: 07/01/2024 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: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 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: 01/19/2024 Date Data Arrived at EDR: 01/24/2024 Date Made Active in Reports: 04/09/2024

Number of Days to Update: 76

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List

Cupa Facility list

Date of Government Version: 10/24/2023 Date Data Arrived at EDR: 10/25/2023 Date Made Active in Reports: 01/16/2024

Number of Days to Update: 83

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 02/05/2024

Next Scheduled EDR Contact: 05/06/2024

Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List

CUPA facility list.

Date of Government Version: 08/08/2022 Date Data Arrived at EDR: 08/09/2022 Date Made Active in Reports: 09/01/2022

Number of Days to Update: 23

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024

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: 06/28/2021 Date Data Arrived at EDR: 12/21/2021 Date Made Active in Reports: 03/03/2022

Number of Days to Update: 72

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/08/2024 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: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List

CUPA facility list.

Date of Government Version: 08/12/2021 Date Data Arrived at EDR: 08/12/2021 Date Made Active in Reports: 11/08/2021

Number of Days to Update: 88

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List

Cupa facility list.

Date of Government Version: 01/17/2024 Date Data Arrived at EDR: 01/18/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 76

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024

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: Invo County Environmental Health Services

Telephone: 760-878-0238 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024

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: 10/30/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Kern County Public Health Telephone: 661-321-3000 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 10/30/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/13/2024 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: 12/03/2020 Date Data Arrived at EDR: 01/26/2021 Date Made Active in Reports: 04/14/2021

Number of Days to Update: 78

Source: Kings County Department of Public Health

Telephone: 559-584-1411 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 10/27/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 11/21/2023

Number of Days to Update: 20

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 04/08/2024

Next Scheduled EDR Contact: 07/22/2024 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: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 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: 03/08/2024

Next Scheduled EDR Contact: 06/24/2024 Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/16/2024 Date Data Arrived at EDR: 01/18/2024 Date Made Active in Reports: 03/26/2024

Number of Days to Update: 68

Source: Department of Public Works

Telephone: 626-458-3517 Last EDR Contact: 03/28/2024

Next Scheduled EDR Contact: 07/15/2024 Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

> Date of Government Version: 01/09/2024 Date Data Arrived at EDR: 01/10/2024 Date Made Active in Reports: 03/27/2024

Number of Days to Update: 77

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 04/09/2024

Next Scheduled EDR Contact: 07/22/2024

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: 12/31/2022 Date Data Arrived at EDR: 01/12/2023 Date Made Active in Reports: 03/29/2023

Number of Days to Update: 76

Source: Engineering & Construction Division

Telephone: 213-473-7869 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/22/2024

Data Release Frequency: Varies

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 Date Data Arrived at EDR: 06/25/2019 Date Made Active in Reports: 08/22/2019

Number of Days to Update: 58

Source: Los Angeles Fire Department

Telephone: 213-978-3800 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 04/13/2023 Date Data Arrived at EDR: 07/13/2023 Date Made Active in Reports: 09/27/2023

Number of Days to Update: 76

Source: Los Angeles County Department of Public Works

Telephone: 626-458-6973 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/22/2024 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: 12/01/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 12/14/2023

Number of Days to Update: 1

Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024

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: 12/01/2023 Date Data Arrived at EDR: 12/13/2023 Date Made Active in Reports: 03/07/2024

Number of Days to Update: 85

Source: Los Angeles Fire Department

Telephone: 213-978-3800 Last EDR Contact: 03/19/2024

Next Scheduled EDR Contact: 07/01/2024 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: 07/11/2023 Date Data Arrived at EDR: 10/17/2023 Date Made Active in Reports: 01/09/2024

Number of Days to Update: 84

Source: Community Health Services Telephone: 323-890-7806

Last EDR Contact: 01/19/2024

Next Scheduled EDR Contact: 04/29/2024 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 Date Data Arrived at EDR: 04/19/2017 Date Made Active in Reports: 05/10/2017

Number of Days to Update: 21

Source: City of El Segundo Fire Department

Telephone: 310-524-2236 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/22/2024 Data Release Frequency: No Update Planned

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 Date Data Arrived at EDR: 04/23/2019 Date Made Active in Reports: 06/27/2019

Number of Days to Update: 65

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 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: 04/12/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 06/13/2023

Number of Days to Update: 42

Source: City of Torrance Fire Department Telephone: 310-618-2973

Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 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 Date Data Arrived at EDR: 08/12/2020 Date Made Active in Reports: 10/23/2020

Number of Days to Update: 72

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 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 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/02/2018

Number of Days to Update: 29

Source: Public Works Department Waste Management

Telephone: 415-473-6647 Last EDR Contact: 03/22/2024

Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021 Date Data Arrived at EDR: 11/18/2021 Date Made Active in Reports: 11/22/2021

Number of Days to Update: 4

Source: Department of Public Health

Telephone: 707-463-4466 Last EDR Contact: 02/20/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List

CUPA facility list.

Date of Government Version: 11/15/2023 Date Data Arrived at EDR: 11/20/2023 Date Made Active in Reports: 02/15/2024

Number of Days to Update: 87

Source: Merced County Environmental Health

Telephone: 209-381-1094 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/27/2024

Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List

CUPA Facility List

Date of Government Version: 02/22/2021 Date Data Arrived at EDR: 03/02/2021 Date Made Active in Reports: 05/19/2021

Number of Days to Update: 78

Source: Mono County Health Department

Telephone: 760-932-5580 Last EDR Contact: 02/16/2024

Next Scheduled EDR Contact: 06/03/2024

Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021 Date Data Arrived at EDR: 10/06/2021 Date Made Active in Reports: 12/29/2021

Number of Days to Update: 84

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 03/22/2024

Next Scheduled EDR Contact: 07/08/2024

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: 02/16/2024

Next Scheduled EDR Contact: 06/03/2024 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: 02/16/2024

Next Scheduled EDR Contact: 06/03/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 10/31/2023 Date Data Arrived at EDR: 11/03/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 81

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024 Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 10/10/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 03/13/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/10/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 03/13/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/10/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 03/13/2024

Next Scheduled EDR Contact: 05/13/2024 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: 11/09/2023 Date Data Arrived at EDR: 11/09/2023 Date Made Active in Reports: 11/21/2023

Number of Days to Update: 12

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 02/26/2024

Next Scheduled EDR Contact: 06/10/2024 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: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024

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: 01/04/2024 Date Data Arrived at EDR: 01/04/2024 Date Made Active in Reports: 03/29/2024

Number of Days to Update: 85

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 12/05/2023

Next Scheduled EDR Contact: 06/24/2024 Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 01/04/2024 Date Data Arrived at EDR: 01/04/2024 Date Made Active in Reports: 03/21/2024

Number of Days to Update: 77

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 03/08/2024

Next Scheduled EDR Contact: 06/24/2024 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: 11/07/2022 Date Data Arrived at EDR: 12/21/2022 Date Made Active in Reports: 03/16/2023

Number of Days to Update: 85

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 03/25/2024

Next Scheduled EDR Contact: 07/08/2024 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: 11/07/2022 Date Data Arrived at EDR: 12/09/2022 Date Made Active in Reports: 03/01/2023

Number of Days to Update: 82

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 03/25/2024

Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 01/17/2024 Date Data Arrived at EDR: 01/18/2024 Date Made Active in Reports: 01/26/2024

Number of Days to Update: 8

Source: San Benito County Environmental Health

Telephone: N/A

Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 05/13/2024

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: 11/08/2023 Date Data Arrived at EDR: 11/09/2023 Date Made Active in Reports: 02/07/2024

Number of Days to Update: 90

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/12/2024 Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 11/27/2023 Date Data Arrived at EDR: 11/27/2023 Date Made Active in Reports: 02/16/2024

Number of Days to Update: 81

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 02/27/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/04/2023 Date Data Arrived at EDR: 04/05/2023 Date Made Active in Reports: 06/27/2023

Number of Days to Update: 83

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 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: 07/22/2021 Date Data Arrived at EDR: 10/19/2021 Date Made Active in Reports: 01/13/2022

Number of Days to Update: 86

Source: Department of Environmental Health

Telephone: 858-505-6874 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024

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: 02/23/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 10/30/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health

Telephone: 415-252-3896 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024

Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

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: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 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: 10/30/2023 Source:

Date of Government Version: 10/30/2023 Date Data Arrived at EDR: 11/01/2023 Date Made Active in Reports: 01/23/2024

Number of Days to Update: 83

Source: Department of Public Health Telephone: 415-252-3920

Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024 Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/15/2024 Date Data Arrived at EDR: 01/18/2024 Date Made Active in Reports: 04/05/2024

Number of Days to Update: 78

Source: San Francisco Planning Telephone: 628-652-7483 Last EDR Contact: 01/18/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

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: 03/08/2024

Next Scheduled EDR Contact: 06/24/2024 Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/08/2023 Date Data Arrived at EDR: 11/09/2023 Date Made Active in Reports: 02/07/2024

Number of Days to Update: 90

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/27/2024

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

Telephone: 650-363-1921 Last EDR Contact: 03/07/2024

Next Scheduled EDR Contact: 06/17/2024 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

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 03/01/2024

Next Scheduled EDR Contact: 06/17/2024 Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

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: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 11/07/2023 Date Data Arrived at EDR: 11/08/2023 Date Made Active in Reports: 11/16/2023

Number of Days to Update: 8

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/27/2024 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: 02/16/2024

Next Scheduled EDR Contact: 06/03/2024 Data Release Frequency: No Update Planned

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: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024

Data Release Frequency: Varies

SHASTA COUNTY:

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: 02/09/2024

Next Scheduled EDR Contact: 05/27/2024

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: 02/23/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021 Date Data Arrived at EDR: 09/16/2021 Date Made Active in Reports: 12/09/2021

Number of Days to Update: 84

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 02/23/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List

Cupa Facility list

Date of Government Version: 07/02/2021 Date Data Arrived at EDR: 07/06/2021 Date Made Active in Reports: 07/14/2021

Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 03/15/2024

Next Scheduled EDR Contact: 07/01/2024 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: 06/30/2021 Date Data Arrived at EDR: 06/30/2021 Date Made Active in Reports: 09/24/2021

Number of Days to Update: 86

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 03/15/2024

Next Scheduled EDR Contact: 07/01/2024 Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/08/2022 Date Data Arrived at EDR: 02/10/2022 Date Made Active in Reports: 05/04/2022

Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection

Telephone: 209-525-6751 Last EDR Contact: 04/05/2024

Next Scheduled EDR Contact: 07/22/2024

Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023 Date Data Arrived at EDR: 08/24/2023 Date Made Active in Reports: 09/12/2023

Number of Days to Update: 19

Source: Sutter County Environmental Health Services

Telephone: 530-822-7500 Last EDR Contact: 02/26/2024

Next Scheduled EDR Contact: 06/10/2024 Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 12/05/2023 Date Data Arrived at EDR: 02/01/2024 Date Made Active in Reports: 02/28/2024

Number of Days to Update: 27

Source: Tehama County Department of Environmental Health

Telephone: 530-527-8020 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024

Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 01/17/2024 Date Data Arrived at EDR: 01/18/2024 Date Made Active in Reports: 04/03/2024

Number of Days to Update: 76

Source: Department of Toxic Substances Control

Telephone: 760-352-0381 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024

Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 10/07/2022 Date Data Arrived at EDR: 10/07/2022 Date Made Active in Reports: 12/21/2022

Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division

Telephone: 559-624-7400 Last EDR Contact: 01/29/2024

Next Scheduled EDR Contact: 05/13/2024

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: Divison of Environmental Health

Telephone: 209-533-5633 Last EDR Contact: 01/11/2024

Next Scheduled EDR Contact: 04/29/2024 Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/26/2023

Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/08/2024

Number of Days to Update: 75

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024 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 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 03/22/2024

Next Scheduled EDR Contact: 07/08/2024
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 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 02/02/2024

Next Scheduled EDR Contact: 05/20/2024 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: 12/26/2023 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/09/2024

Number of Days to Update: 77

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 01/16/2024

Next Scheduled EDR Contact: 04/29/2024 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: 11/28/2023 Date Data Arrived at EDR: 11/29/2023 Date Made Active in Reports: 02/26/2024

Number of Days to Update: 89

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 03/05/2024

Next Scheduled EDR Contact: 06/17/2024 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: 12/18/2023 Date Data Arrived at EDR: 12/26/2023 Date Made Active in Reports: 03/19/2024

Number of Days to Update: 84

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 03/22/2024

Next Scheduled EDR Contact: 07/08/2024 Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 01/22/2024 Date Data Arrived at EDR: 01/23/2024 Date Made Active in Reports: 04/08/2024

Number of Days to Update: 76

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 01/22/2024

Next Scheduled EDR Contact: 05/06/2024

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: 11/06/2023 Date Data Arrived at EDR: 11/07/2023 Date Made Active in Reports: 01/31/2024

Number of Days to Update: 85

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 02/06/2024

Next Scheduled EDR Contact: 05/20/2024 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: 03/29/2024

Next Scheduled EDR Contact: 07/15/2024 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

acility.

Date of Government Version: 12/31/2019 Date Data Arrived at EDR: 11/30/2023 Date Made Active in Reports: 12/01/2023

Number of Days to Update: 1

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 01/26/2024

Next Scheduled EDR Contact: 05/06/2024 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: 04/08/2024

Next Scheduled EDR Contact: 07/22/2024 Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 11/30/2021 Date Made Active in Reports: 02/18/2022

Number of Days to Update: 80

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/12/2024

Next Scheduled EDR Contact: 05/27/2024 Data Release Frequency: Annually

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: 03/01/2024

Next Scheduled EDR Contact: 06/17/2024 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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 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

HAZEL M. BAILEY PRIMARY SCHOOL 1691 Q STREET FIREBAUGH, CA 93622

TARGET PROPERTY COORDINATES

Latitude (North): 36.854278 - 36° 51' 15.40" Longitude (West): 120.446077 - 120° 26' 45.88"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 727697.8 UTM Y (Meters): 4081549.2

Elevation: 148 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 50005158 FIREBAUGH, CA

Version Date: 2021

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.

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).

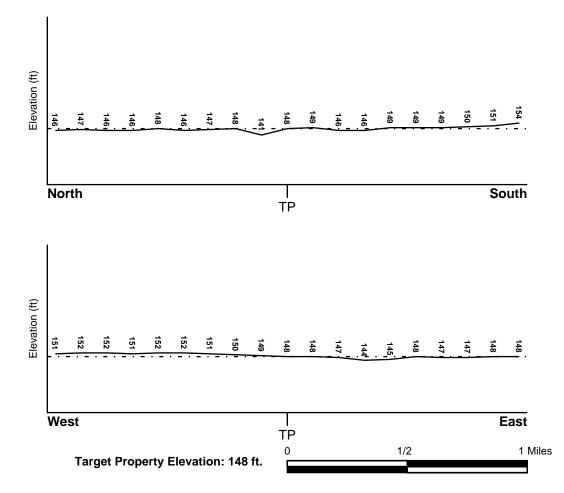
TOPOGRAPHIC INFORMATION

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 ESE

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.

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

Flood Plain Panel at Target Property FEMA Source Type

06019C1430H FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

06019C1435H FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

FIREBAUGH 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.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

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

GEOLOGIC AGE IDENTIFICATION

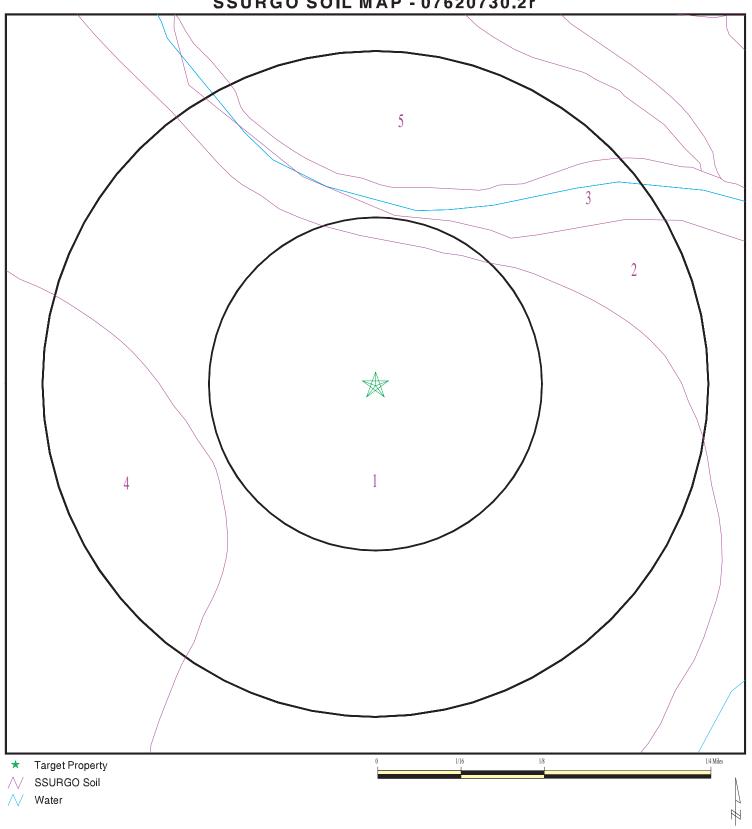
Era: Cenozoic Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (decoded above as Era, System & Series)

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 - 07620730.2r



SITE NAME: Hazel M. Bailey Primary School ADDRESS: 1691 Q Street

Firebaugh CA 93622 36.854278 / 120.446077 LAT/LONG:

CLIENT: Rincon CONTACT: Savanna Vrevich INQUIRY #: 07620730.2r

April 10, 2024 4:25 pm DATE:

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: ELNIDO

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: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Bou	ındary		Classi	Classification		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	14 inches	31 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	31 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	40 inches	53 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

Soil Layer Information							
	Bou	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
4	53 inches	59 inches	sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
5	0 inches	14 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. 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: **BISGANI**

Soil Surface Texture: loamy sand

Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures. Hydrologic Group:

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classi	fication	Saturated hydraulic	
Layer Uppe	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity Soi	
1	0 inches	9 inches	loamy sand	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: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
2	9 inches	12 inches	loamy sand	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: 141 Min: 42	Max: 7.8 Min: 6.1
3	12 inches	59 inches	sand	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: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: loamy sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: WEKODA

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

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Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

			Soil Layer	r Information			
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	7 inches	11 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9
2	22 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9
3	0 inches	7 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9
4	11 inches	22 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9
5	35 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9
6	46 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.42 Min: 0.02	Max: 8.4 Min: 7.9

Soil Map ID: 5

Soil Component Name: Riverwash

Soil Surface Texture: sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Excessively drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Воц	ındary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: Min:
2	5 inches	59 inches	stratified coarse sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: Min:

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

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

WELL ID	LOCATION FROM TP
USGS40000178710	0 - 1/8 Mile North
USGS40000178732	1/8 - 1/4 Mile NNW
USGS40000178741	1/4 - 1/2 Mile NW
USGS40000178735	1/4 - 1/2 Mile NW
USGS40000178728	1/4 - 1/2 Mile ENE
USGS40000178578	1/4 - 1/2 Mile SSE
USGS40000178800	1/2 - 1 Mile NNW
USGS40000178754	1/2 - 1 Mile ENE
USGS40000178797	1/2 - 1 Mile NW
USGS40000178753	1/2 - 1 Mile ENE
USGS40000178787	1/2 - 1 Mile NW
USGS40000178727	1/2 - 1 Mile ENE
USGS40000178503	1/2 - 1 Mile South
USGS40000178500	1/2 - 1 Mile SSE
USGS40000178831	1/2 - 1 Mile NW
	USGS40000178710 USGS40000178732 USGS40000178741 USGS40000178735 USGS40000178728 USGS40000178578 USGS40000178578 USGS40000178754 USGS40000178797 USGS40000178797 USGS40000178797 USGS40000178797 USGS40000178797 USGS40000178797

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
58	CA2000837	1/2 - 1 Mile WNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
	CADWR9000031301	0 - 1/8 Mile West
A3	CADWR0000010365	0 - 1/8 Mile West
A4	11067	0 - 1/8 Mile NNE
A5	CADDW2000001704	0 - 1/8 Mile North
6	11068	1/8 - 1/4 Mile NNW
B7	23258	1/8 - 1/4 Mile NNE
B8	23259	1/8 - 1/4 Mile NNE
B9	23261	1/8 - 1/4 Mile NNE
10	CADDW2000021320	1/8 - 1/4 Mile ENE
11	CADPR0000003326	1/8 - 1/4 Mile SE
13	CADDW2000011521	1/8 - 1/4 Mile East

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STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
14 17 D19 20 22 D23 E24 F25 G26 G27 G28 H29 F30 G31 G32 G34 G35 G36 H37 G38 G39 G41 H42 H43 I44 G45 G46	CADWR0000029770 CADDW2000004522 CADDW2000017083 CADWR9000031336 CADWR0000003413 11071 CADWR0000003303 CADDW2000006449 CAEDF000020359 CAEDF0000016139 CADDW2000016139 CADDW2000018833 CAEDF0000018833 CAEDF0000118723 CAEDF0000118723 CAEDF0000118723 CAEDF0000118723 CAEDF0000110592 CAEDF00000110592 CAEDF00000110592 CAEDF00000110592 CAEDF00000110592 CAEDF00000110592 CAEDF0000048182 CAEDF0000048182 CAEDF0000055436 CAEDF0000055436 CAEDF0000055436	1/4 - 1/2 Mile North 1/4 - 1/2 Mile ESE 1/4 - 1/2 Mile SW 1/4 - 1/2 Mile NE 1/4 - 1/2 Mile NE 1/4 - 1/2 Mile NW 1/4 - 1/2 Mile SW 1/2 - 1 Mile ENE 1/2 - 1 Mile ENE 1/2 - 1 Mile West 1/2 - 1 Mile NNW 1/2 - 1 Mile West 1/2 - 1 Mile West 1/2 - 1 Mile West
J55 K57 K59 60 L61 M62 L63	CADDW2000015574 CAUSGSN00018177 11065 CADWR9000031202 CADDW2000023794 CADPR0000004517 11070	1/2 - 1 Mile NW 1/2 - 1 Mile ENE 1/2 - 1 Mile ENE 1/2 - 1 Mile SSW 1/2 - 1 Mile NW 1/2 - 1 Mile NW 1/2 - 1 Mile NW
L03 L64 N65 66 M67 M68 M69 O70 O72 N73 N74 O76 77	CADDW2000013129 CADDW2000011086 CADWR9000031269 CADWR00000025767 CADWR0000001087 CADWR9000031368 CADWR9000021006 11061 11062 CADWR9000031367 11060 CADDW2000003577	1/2 - 1 Mile NW 1/2 - 1 Mile NNW 1/2 - 1 Mile NNW 1/2 - 1 Mile WSW 1/2 - 1 Mile NW 1/2 - 1 Mile NW 1/2 - 1 Mile NW 1/2 - 1 Mile NE 1/2 - 1 Mile NE 1/2 - 1 Mile NW 1/2 - 1 Mile NNW 1/2 - 1 Mile NNE 1/2 - 1 Mile NNE 1/2 - 1 Mile NNE

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

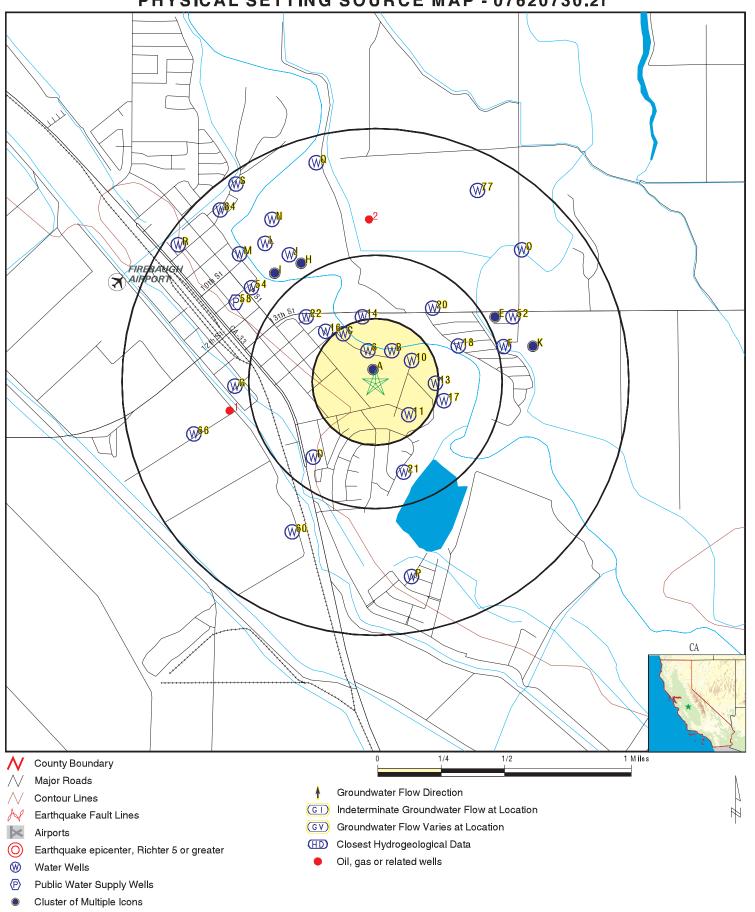
MAP ID	WELL ID	LOCATION FROM TP
IVIAF ID	WELL ID	FROWITE
Q79	CADDW2000021969	1/2 - 1 Mile NNW
Q80	11063	1/2 - 1 Mile NNW
Q81	11066	1/2 - 1 Mile NNW
Q82	11069	1/2 - 1 Mile NNW
Q83	CADWR9000031436	1/2 - 1 Mile North
R85	CAEDF0000053125	1/2 - 1 Mile NW
R86	CAEDF0000094135	1/2 - 1 Mile NW
S87	CADWR000001617	1/2 - 1 Mile NW
R88	CAEDF0000067519	1/2 - 1 Mile NW
R89	CAEDF0000100731	1/2 - 1 Mile WNW
Q90	CADWR9000031440	1/2 - 1 Mile NNW
R91	CAEDF0000041930	1/2 - 1 Mile WNW
R92	CAEDF0000113106	1/2 - 1 Mile NW
R93	CAEDF0000037201	1/2 - 1 Mile NW
R94	CAEDF0000110568	1/2 - 1 Mile NW
S95	CADWR9000031410	1/2 - 1 Mile NW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP	
1	CAOG17000003529	1/2 - 1 Mile West	
2	CAOG17000008917	1/2 - 1 Mile North	

PHYSICAL SETTING SOURCE MAP - 07620730.2r



SITE NAME: Hazel M. Bailey Primary School ADDRESS: 1691 Q Street

Firebaugh CA 93622 LAT/LONG: 36.854278 / 120.446077

CLIENT: Rincon CONTACT: Savanna Vrevich INQUIRY #: 07620730.2r

DATE: April 10, 2024 4:25 pm

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

Elevation Database EDR ID Number

A1 North 0 - 1/8 Mile

FED USGS USGS40000178710

Higher

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28L002M Well Type: 18040001 Description: Not Reported HUC: 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: 1951-04-01 Feet below surface: 39.00 Feet to sea level: Not Reported

Note: Not Reported

A2
West CA WELLS CADWR9000031301

West 0 - 1/8 Mile Higher

State Well #: 12S14E28P001M Station ID: 14784

Well Name:Not ReportedBasin Name:Delta-MendotaWell Use:UnknownWell Type:UnknownWell Depth:0Well Completion Rpt #:Not Reported

._

A3
West CA WELLS CADWR0000010365
0 - 1/8 Mile
Higher

Well ID: 12S14E28Q001M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28Q001M 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=12S14E28Q001M&store_num=

GeoTracker Data: Not Reported

A4____

NNE CA WELLS 11067 0 - 1/8 Mile

Lower

Seq: 11067 Prim sta c: 12S/14E-28L06 M

 Frds no:
 1010005010
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 11 Station ty: WELL/AMBNT/MUN/INTAKE

Latitude: 365120.0 Longitude: 1202639.0

Precision: Comment 1: Comment 3: Comment 5: Comment 7:	3 Not Reported Not Reported Not Reported Not Reported	Status: Comment 2: Comment 4: Comment 6:	AU Not Reported Not Reported Not Reported
System no: Hqname: City: Zip: Pop serv: Area serve:	1010005 Not Reported FIREBAUGH 93622 4970 FIREBAUGH	System nam: Address: State: Zip ext: Connection:	City Of Firebaugh 1575 ELEVENTH STREET Not Reported Not Reported 997
Sample date: Chemical: Dlr:	08-JAN-18 MANGANESE 20.	Finding: Report units:	770. UG/L
Sample date: Chemical: Dlr:	08-JAN-18 ARSENIC 2.	Finding: Report units:	6.2 UG/L
Sample date: Chemical: Dlr:	08-JAN-18 IRON 100.	Finding: Report units:	530. UG/L
Sample date: Chemical: Dlr:	03-OCT-17 MANGANESE 20.	Finding: Report units:	660. UG/L
Sample date: Chemical: Dlr:	03-OCT-17 IRON 100.	Finding: Report units:	450. UG/L
Sample date: Chemical: Dlr:	03-OCT-17 ARSENIC 2.	Finding: Report units:	5.8 UG/L
Sample date: Chemical: Dlr:	15-AUG-17 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	530. MG/L
Sample date: Chemical: Dlr:	15-AUG-17 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	890. US
Sample date: Chemical: Dlr:	11-JUL-17 IRON 100.	Finding: Report units:	470. UG/L
Sample date: Chemical: Dlr:	11-JUL-17 ARSENIC 2.	Finding: Report units:	7.3 UG/L
Sample date: Chemical: Dlr:	11-JUL-17 MANGANESE 20.	Finding: Report units:	700. UG/L
Sample date: Chemical: Dlr:	09-MAY-17 MANGANESE 20.	Finding: Report units:	740. UG/L
Sample date:	09-MAY-17	Finding:	520.

Chemical: **IRON** UG/L Report units: DIr: 100. 09-MAY-17 Sample date: Finding: 9.3 Report units: Chemical: **ARSENIC** UG/L DIr: 2. Sample date: 10-JAN-17 Finding: 230. HARDNESS (TOTAL) AS CACO3 Chemical: Report units: MG/L DIr: Sample date: 10-JAN-17 Finding: 0.747 Chemical: **GROSS ALPHA MDA95** Report units: PCI/L DIr: Sample date: 10-JAN-17 Finding: 12. AGGRSSIVE INDEX (CORROSIVITY) Chemical: Report units: Not Reported DIr: Sample date: 10-JAN-17 Finding: 2.2 Chemical: TURBIDITY, LABORATORY Report units: NTU DIr: 0.1 10-JAN-17 550. Sample date: Finding: TOTAL DISSOLVED SOLIDS Chemical: Report units: MG/L DIr: Sample date: 10-JAN-17 0.44 Finding: Chemical: **GROSS ALPHA COUNTING ERROR** Report units: PCI/L DIr: Sample date: 10-JAN-17 Finding: 7.8 **GROSS ALPHA** Chemical: Report units: PCI/L Dlr: 10-JAN-17 Sample date: Finding: 730. **MANGANESE** Chemical: Report units: UG/L DIr: 20. Finding: Sample date: 10-JAN-17 550. Chemical: **IRON** Report units: UG/L DIr: 100. Sample date: 10-JAN-17 Finding: 140. Chemical: **BARIUM** Report units: UG/L DIr: 100. Sample date: 10-JAN-17 Finding: 7.6 **ARSENIC** Report units: Chemical: UG/L DIr: Sample date: 10-JAN-17 Finding: 110. Chemical: **SULFATE** Report units: MG/L DIr: 0.5 10-JAN-17 Finding: Sample date: 140. Chemical: CHLORIDE Report units: MG/L DIr: 0. Sample date: 10-JAN-17 Finding: 3.8 Chemical: **POTASSIUM** Report units: MG/L DIr: 0.

Sample date: Chemical: Dlr:	10-JAN-17 SODIUM 0.	Finding: Report units:	100. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 MAGNESIUM 0.	Finding: Report units:	30. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 CALCIUM 0.	Finding: Report units:	43. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 BICARBONATE ALKALINITY 0.	Finding: Report units:	180. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	150. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 PH, LABORATORY 0.	Finding: Report units:	7.4 Not Reported
Sample date: Chemical: Dlr:	10-JAN-17 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	910. US
Sample date: Chemical: Dlr:	10-JAN-17 COLOR 0.	Finding: Report units:	5. UNITS
Sample date: Chemical: Dlr:	04-OCT-16 MANGANESE 20.	Finding: Report units:	740. UG/L
Sample date: Chemical: Dlr:	04-OCT-16 ARSENIC 2.	Finding: Report units:	6.5 UG/L
Sample date: Chemical: Dlr:	04-OCT-16 IRON 100.	Finding: Report units:	480. UG/L
Sample date: Chemical: Dlr:	27-SEP-16 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	560. MG/L
Sample date: Chemical: Dlr:	27-SEP-16 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	900. US
Sample date: Chemical: Dlr:	05-JUL-16 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	05-JUL-16 MANGANESE 20.	Finding: Report units:	810. UG/L
Sample date: Chemical:	05-JUL-16 IRON	Finding: Report units:	510. UG/L

Dlr: 100. 05-APR-16 Sample date: Finding: 8.4 **ARSENIC** Report units: UG/L Chemical: DIr: 2. Sample date: 05-APR-16 Finding: 550. Chemical: **IRON** Report units: UG/L DIr: 100. 05-APR-16 750. Sample date: Finding: Chemical: **MANGANESE** Report units: UG/L DIr: 20. 05-JAN-16 Sample date: Finding: 800. MANGANESE Chemical: Report units: UG/L DIr: 20. 05-JAN-16 570. Sample date: Finding: **IRON** Chemical: Report units: UG/L DIr: 100. Sample date: 05-JAN-16 Finding: 6.2 **ARSENIC** Report units: Chemical: UG/L DIr: 2. 15-DEC-15 540. Sample date: Finding: TOTAL DISSOLVED SOLIDS Chemical: Report units: MG/L DIr: Sample date: 15-DEC-15 Finding: 840. SPECIFIC CONDUCTANCE Chemical: Report units: US DIr: Sample date: 06-OCT-15 Finding: 780. Chemical: **MANGANESE** Report units: UG/L DIr: 20. 06-OCT-15 Sample date: Finding: 3.6 Chemical: ARSENIC Report units: UG/L DIr: 2. 06-OCT-15 Sample date: Finding: 530. **IRON** Report units: UG/L Chemical: DIr: 100. 07-APR-15 Sample date: Finding: 730. Chemical: **IRON** Report units: UG/L DIr: 100. Sample date: 07-APR-15 860. Finding: Chemical: MANGANESE Report units: UG/L DIr: 20. Sample date: 07-APR-15 Finding: 3.6 Chemical: ARSENIC Report units: UG/L DIr: 2. Sample date: 06-JAN-15 Finding: 510. **IRON** Report units: Chemical: UG/L 100. DIr:

Sample date: Chemical: Dlr:	06-JAN-15 ARSENIC 2.	Finding: Report units:	5. UG/L
Sample date: Chemical: Dlr:	06-JAN-15 MANGANESE 20.	Finding: Report units:	780. UG/L
Sample date: Chemical: Dlr:	07-NOV-14 ARSENIC 2.	Finding: Report units:	8.5 UG/L
Sample date: Chemical: Dlr:	07-NOV-14 IRON 100.	Finding: Report units:	940. UG/L
Sample date: Chemical: Dlr:	07-NOV-14 MANGANESE 20.	Finding: Report units:	860. UG/L
Sample date: Chemical: Dlr:	07-OCT-14 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	560. MG/L
Sample date: Chemical: Dlr:	07-OCT-14 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	1000. US
Sample date: Chemical: Dlr:	01-JUL-14 ARSENIC 2.	Finding: Report units:	7.2 UG/L
Sample date: Chemical: Dlr:	01-JUL-14 IRON 100.	Finding: Report units:	540. UG/L
Sample date: Chemical: Dlr:	01-JUL-14 MANGANESE 20.	Finding: Report units:	790. UG/L
Sample date: Chemical: DIr:	01-APR-14 MANGANESE 20.	Finding: Report units:	780. UG/L
Sample date: Chemical: DIr:	01-APR-14 IRON 100.	Finding: Report units:	490. UG/L
Sample date: Chemical: DIr:	01-APR-14 ARSENIC 2.	Finding: Report units:	4.7 UG/L
Sample date: Chemical: Dlr:	04-FEB-14 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	590. MG/L
Sample date: Chemical: Dlr:	04-FEB-14 MANGANESE 20.	Finding: Report units:	800. UG/L
Sample date: Chemical:	04-FEB-14 IRON	Finding: Report units:	500. UG/L

Dlr: 100.

Sample date: 04-FEB-14 Finding: 160. Chemical: BARIUM Report units: UG/L

Dlr: 100.

Sample date: 04-FEB-14 Finding: 4.7 Chemical: ARSENIC Report units: UG/L

Dlr: 2

Sample date: 04-FEB-14 Finding: 120. Chemical: SULFATE Report units: MG/L

Dlr: 0.5

Sample date: 04-FEB-14 Finding: 150.

Chemical: CHLORIDE Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 3.9

Chemical: POTASSIUM Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 34.

Chemical: MAGNESIUM Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 48.

Chemical: CALCIUM Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 260.

Chemical: HARDNESS (TOTAL) AS CACO3 Report units: MG/L
DIr: 0.

Sample date: 04-FEB-14 Finding: 200.

Chemical: BICARBONATE ALKALINITY Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 160.

Chemical: ALKALINITY (TOTAL) AS CACO3 Report units: MG/L DIr: 0.

Sample date: 04-FEB-14 Finding: 7.8

Chemical: PH, LABORATORY Report units: Not Reported DIr: Not Reported

Sample date: 04-FEB-14 Finding: 960.

Chemical: SPECIFIC CONDUCTANCE Report units: US DIr: 0.

Sample date: 04-FEB-14 Finding: 2.

Chemical: ODOR THRESHOLD @ 60 C Report units: TON DIr: 1.

Sample date: 04-FEB-14 Finding: 10.
Chemical: COLOR Report units: UNITS

Chemical: COLOR Report units: UNITS DIr: 0.

Sample date: 04-FEB-14 Finding: 0.12
Chemical: LANGELIER INDEX @ 60 C Report units: Not Reported

Dir: Langelier index @ 60 C Report units: Not Reported

Sample date: Chemical: Dlr:	04-FEB-14 TURBIDITY, LABORATORY 0.1	Finding: Report units:	1.4 NTU
Sample date: Chemical: Dlr:	04-FEB-14 AGGRSSIVE INDEX (CORROSIVITY) 0.	Finding: Report units:	12. Not Reported
Sample date: Chemical: Dlr:	04-FEB-14 SODIUM 0.	Finding: Report units:	100. MG/L
Sample date: Chemical: Dlr:	07-JAN-14 IRON 100.	Finding: Report units:	480. UG/L
Sample date: Chemical: Dlr:	07-JAN-14 ARSENIC 2.	Finding: Report units:	5.2 UG/L
Sample date: Chemical: Dlr:	07-JAN-14 MANGANESE 20.	Finding: Report units:	770. UG/L
Sample date: Chemical: Dlr:	08-OCT-13 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	970. US
Sample date: Chemical: Dlr:	08-OCT-13 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	590. MG/L
Sample date: Chemical: Dlr:	01-OCT-13 MANGANESE 20.	Finding: Report units:	780. UG/L
Sample date: Chemical: Dlr:	01-OCT-13 ARSENIC 2.	Finding: Report units:	6.2 UG/L
Sample date: Chemical: Dlr:	01-OCT-13 IRON 100.	Finding: Report units:	530. UG/L
Sample date: Chemical: Dlr:	02-JUL-13 MANGANESE 20.	Finding: Report units:	940. UG/L
Sample date: Chemical: Dlr:	02-JUL-13 IRON 100.	Finding: Report units:	590. UG/L
Sample date: Chemical: Dlr:	02-JUL-13 ARSENIC 2.	Finding: Report units:	5.3 UG/L
Sample date: Chemical: Dlr:	13-JUN-13 IRON 100.	Finding: Report units:	770. UG/L
Sample date: Chemical:	13-JUN-13 MANGANESE	Finding: Report units:	930. UG/L

Dlr:	20.		
Sample date: Chemical: Dlr:	13-JUN-13 ARSENIC 2.	Finding: Report units:	4.7 UG/L
Sample date: Chemical: Dlr:	03-JAN-13 IRON 100.	Finding: Report units:	570. UG/L
Sample date: Chemical: Dlr:	03-JAN-13 ARSENIC 2.	Finding: Report units:	6.4 UG/L
Sample date: Chemical: Dlr:	03-JAN-13 MANGANESE 20.	Finding: Report units:	870. UG/L
Sample date: Chemical: Dlr:	02-OCT-12 MANGANESE 20.	Finding: Report units:	780. UG/L
Sample date: Chemical: Dlr:	02-OCT-12 IRON 100.	Finding: Report units:	510. UG/L
Sample date: Chemical: Dlr:	02-OCT-12 ARSENIC 2.	Finding: Report units:	4.1 UG/L
Sample date: Chemical: Dlr:	14-AUG-12 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	960. US
Sample date: Chemical: Dlr:	03-JUL-12 ARSENIC 2.	Finding: Report units:	7.6 UG/L
Sample date: Chemical: Dlr:	03-JUL-12 MANGANESE 20.	Finding: Report units:	630. UG/L
Sample date: Chemical: Dlr:	03-JUL-12 IRON 100.	Finding: Report units:	420. UG/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 228 COUNTING ERROR 0.	Finding: Report units:	0.391 PCI/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 226 COUNTING ERROR 0.	Finding: Report units:	0.627 PCI/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 226 1.	Finding: Report units:	1.09 PCI/L
Sample date: Chemical: Dlr:	10-APR-12 ARSENIC 2.	Finding: Report units:	6.4 UG/L

Sample date: 10-APR-12 Finding: 810. Chemical: MANGANESE Report units: UG/L

Dlr: 20.

Sample date: 10-APR-12 Finding: 490. Chemical: IRON Report units: UG/L

Dlr: 100.

Sample date: 28-FEB-12 Finding: 490. Chemical: IRON Report units: UG/L

DIr: 100.

Sample date: 28-FEB-12 Finding: 6.8 Chemical: ARSENIC Report units: UG/L

Dlr: 2.

Sample date: 28-FEB-12 Finding: 760. Chemical: MANGANESE Report units: UG/L

Dlr: 20.

Sample date: 24-JAN-12 Finding: 0.41

Chemical: RADIUM 228 COUNTING ERROR Report units: PCI/L

Dlr: 0.

Sample date: 24-JAN-12 Finding: 0.428

Chemical: RADIUM 226 COUNTING ERROR Report units: PCI/L

DIr: 0.

A5
North CA WELLS CADDW2000001704

North 0 - 1/8 Mile Lower

GAMA:

 Well ID:
 CA1010005_010_010
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-010

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=CA1010005_010_010&store_num=

GeoTracker Data: Not Reported

6 NNW CA WELLS 11068

Lower

1/8 - 1/4 Mile

Seq: 11068 Prim sta c: 12S/14E-28L07 M

 Frds no:
 1010005014
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 12 Station ty: WELL/AMBNT Latitude: 365122.0 Longitude: 1202644.0

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: 1010005 System nam: City Of Firebaugh

Not Reported 1575 ELEVENTH STREET Hqname: Address: City: **FIREBAUGH** State: Not Reported Zip: 93622 Zip ext: Not Reported 4970 Pop serv: Connection: 997 **FIREBAUGH** Area serve: Sample date: 06-MAR-18 Finding: 0.381 Chemical: GROSS ALPHA COUNTING ERROR Report units: PCI/L DIr: 06-MAR-18 4.53 Sample date: Finding: Chemical: **GROSS ALPHA** Report units: PCI/L DIr: Sample date: 06-MAR-18 1.83 Finding: **GROSS ALPHA MDA95** Chemical: Report units: PCI/L DIr: 08-JAN-18 600. Sample date: Finding: **IRON** Chemical: Report units: UG/L DIr: 100. Sample date: 08-JAN-18 Finding: 8.9 ARSENIC Report units: Chemical: UG/L DIr: 2. 08-JAN-18 890. Sample date: Finding: Chemical: MANGANESE Report units: UG/L DIr: 20. Sample date: 03-OCT-17 Finding: 7.1 Chemical: ARSENIC Report units: UG/L DIr: Sample date: 03-OCT-17 Finding: 760. Chemical: **MANGANESE** Report units: UG/L DIr: 20. 03-OCT-17 Finding: 400. Sample date: Chemical: **IRON** Report units: UG/L DIr: 100. Sample date: 15-AUG-17 630. Finding: TOTAL DISSOLVED SOLIDS Report units: MG/L Chemical: DIr: Sample date: 15-AUG-17 Finding: 1100. SPECIFIC CONDUCTANCE Chemical: Report units: US DIr: Sample date: 11-JUL-17 Finding: 6.9 Chemical: ARSENIC Report units: UG/L DIr: 2. Sample date: 11-JUL-17 Finding: 800. MANGANESE Chemical: Report units: UG/L DIr: 20. Sample date: 11-JUL-17 Finding: 510. **IRON** Chemical: Report units: UG/L 100. DIr:

Sample date: Chemical: Dlr:	09-MAY-17 IRON 100.	Finding: Report units:	490. UG/L
Sample date: Chemical: Dlr:	09-MAY-17 ARSENIC 2.	Finding: Report units:	7. UG/L
Sample date: Chemical: Dlr:	09-MAY-17 MANGANESE 20.	Finding: Report units:	840. UG/L
Sample date: Chemical: Dlr:	10-JAN-17 ARSENIC 2.	Finding: Report units:	7.2 UG/L
Sample date: Chemical: Dlr:	10-JAN-17 BARIUM 100.	Finding: Report units:	230. UG/L
Sample date: Chemical: Dlr:	10-JAN-17 IRON 100.	Finding: Report units:	510. UG/L
Sample date: Chemical: Dlr:	10-JAN-17 MANGANESE 20.	Finding: Report units:	850. UG/L
Sample date: Chemical: Dlr:	10-JAN-17 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	660. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 TURBIDITY, LABORATORY 0.1	Finding: Report units:	2.5 NTU
Sample date: Chemical: Dlr:	10-JAN-17 AGGRSSIVE INDEX (CORROSIVITY) 0.	Finding: Report units:	12. Not Reported
Sample date: Chemical: Dlr:	10-JAN-17 SULFATE 0.5	Finding: Report units:	78. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 CHLORIDE 0.	Finding: Report units:	210. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 POTASSIUM 0.	Finding: Report units:	3.8 MG/L
Sample date: Chemical: Dlr:	10-JAN-17 SODIUM 0.	Finding: Report units:	140. MG/L
Sample date: Chemical: Dlr:	10-JAN-17 MAGNESIUM 0.	Finding: Report units:	31. MG/L
Sample date: Chemical:	10-JAN-17 CALCIUM	Finding: Report units:	56. MG/L

Dlr: 0.

Sample date: 10-JAN-17 Finding: 270. HARDNESS (TOTAL) AS CACO3 Chemical: Report units: MG/L

Dlr: 0.

Sample date: 10-JAN-17 Finding: 260. Chemical: **BICARBONATE ALKALINITY** Report units: MG/L

DIr:

10-JAN-17 210. Sample date: Finding: Chemical: ALKALINITY (TOTAL) AS CACO3 Report units: MG/L

DIr:

Sample date: 10-JAN-17 7.3 Finding:

PH, LABORATORY Chemical: Report units: Not Reported

10-JAN-17 Sample date: Finding: 10. COLOR **UNITS** Chemical: Report units:

DIr:

10-JAN-17 Sample date: Finding: 1100.

SPECIFIC CONDUCTANCE Report units: Chemical: US

DIr:

04-OCT-16 430. Sample date: Finding: Report units: UG/L

Chemical: **IRON** DIr: 100.

Sample date: 04-OCT-16 Finding: 6.4

ARSENIC Chemical: Report units: UG/L DIr:

Sample date: 04-OCT-16 Finding: 820. Chemical: **MANGANESE** Report units: UG/L

DIr: 20.

27-SEP-16 Finding: 660. Sample date: Chemical: TOTAL DISSOLVED SOLIDS Report units: MG/L

DIr:

27-SEP-16 Sample date: 1100. Finding:

SPECIFIC CONDUCTANCE Report units: Chemical: US DIr:

Sample date: 05-JUL-16 Finding: 4.9 Chemical: **ARSENIC** Report units: UG/L

DIr:

Sample date: 05-JUL-16 900. Finding:

Chemical: MANGANESE Report units: UG/L

DIr: 20.

Sample date: 05-JUL-16 Finding: 450. Chemical: **IRON** Report units: UG/L

100. DIr:

Sample date: 05-APR-16 Finding: 6.9 **ARSENIC** Report units: Chemical: UG/L

DIr: 2.

Sample date: Chemical: Dlr:	05-APR-16 IRON 100.	Finding: Report units:	560. UG/L
Sample date: Chemical: Dlr:	05-APR-16 MANGANESE 20.	Finding: Report units:	840. UG/L
Sample date: Chemical: Dlr:	05-JAN-16 ARSENIC 2.	Finding: Report units:	6.4 UG/L
Sample date: Chemical: Dlr:	05-JAN-16 MANGANESE 20.	Finding: Report units:	890. UG/L
Sample date: Chemical: Dlr:	05-JAN-16 IRON 100.	Finding: Report units:	490. UG/L
Sample date: Chemical: Dlr:	15-DEC-15 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	1200. US
Sample date: Chemical: Dlr:	15-DEC-15 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	720. MG/L
Sample date: Chemical: Dlr:	06-OCT-15 MANGANESE 20.	Finding: Report units:	770. UG/L
Sample date: Chemical: Dlr:	06-OCT-15 IRON 100.	Finding: Report units:	380. UG/L
Sample date: Chemical: Dlr:	06-OCT-15 ARSENIC 2.	Finding: Report units:	5.3 UG/L
Sample date: Chemical: Dlr:	07-APR-15 ARSENIC 2.	Finding: Report units:	3.9 UG/L
Sample date: Chemical: Dlr:	07-APR-15 MANGANESE 20.	Finding: Report units:	930. UG/L
Sample date: Chemical: Dlr:	07-APR-15 IRON 100.	Finding: Report units:	470. UG/L
Sample date: Chemical: Dlr:	10-MAR-15 GROSS ALPHA 3.	Finding: Report units:	9.2 PCI/L
Sample date: Chemical: Dlr:	10-MAR-15 GROSS ALPHA COUNTING ERROR 0.	Finding: Report units:	0.479 PCI/L
Sample date: Chemical:	10-MAR-15 GROSS ALPHA MDA95	Finding: Report units:	1.07 PCI/L

Dlr: 0. Sample date: 10-MAR-15 Finding: 1.3 URANIUM (PCI/L) Report units: PCI/L Chemical: Dlr: Sample date: 06-JAN-15 Finding: 370. Chemical: **IRON** Report units: UG/L DIr: 100. 06-JAN-15 7.9 Sample date: Finding: Chemical: **ARSENIC** Report units: UG/L DIr: 06-JAN-15 Sample date: Finding: 750. MANGANESE Report units: Chemical: UG/L DIr: 07-NOV-14 Sample date: Finding: 25. ARSENIC Chemical: Report units: UG/L DIr: 07-NOV-14 Sample date: Finding: 3700. **IRON** Report units: Chemical: UG/L DIr: 100. 07-OCT-14 580. Sample date: Finding: TOTAL DISSOLVED SOLIDS Chemical: Report units: MG/L DIr: Sample date: 07-OCT-14 Finding: 1100. SPECIFIC CONDUCTANCE Chemical: Report units: US DIr: Sample date: 01-JUL-14 Finding: 7.7 Chemical: **ARSENIC** Report units: UG/L DIr: 2. 01-JUL-14 370. Sample date: Finding: Chemical: **IRON** Report units: UG/L DIr: 100. 01-JUL-14 Sample date: Finding: 750. Chemical: **MANGANESE** Report units: UG/L DIr: 20. 01-APR-14 Sample date: Finding: 710. Chemical: **MANGANESE** Report units: UG/L DIr: 20. Sample date: 01-APR-14 340. Finding: Chemical: **IRON** Report units: UG/L DIr: 100. Sample date: 01-APR-14 Finding: 5.7 UG/L Chemical: ARSENIC Report units: DIr: 2. Sample date: 04-FEB-14 Finding: 27. MAGNESIUM Report units: Chemical: MG/L DIr: 0.

Sample date: Chemical: Dlr:	04-FEB-14 SODIUM 0.	Finding: Report units:	120. MG/L
Sample date: Chemical: DIr:	04-FEB-14 POTASSIUM 0.	Finding: Report units:	3.4 MG/L
Sample date: Chemical: DIr:	04-FEB-14 CHLORIDE 0.	Finding: Report units:	180. MG/L
Sample date: Chemical: DIr:	04-FEB-14 ARSENIC 2.	Finding: Report units:	4.3 UG/L
Sample date: Chemical: DIr:	04-FEB-14 BARIUM 100.	Finding: Report units:	200. UG/L
Sample date: Chemical: DIr:	04-FEB-14 IRON 100.	Finding: Report units:	320. UG/L
Sample date: Chemical: DIr:	04-FEB-14 MANGANESE 20.	Finding: Report units:	700. UG/L
Sample date: Chemical: DIr:	04-FEB-14 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	570. MG/L
Sample date: Chemical: DIr:	04-FEB-14 LANGELIER INDEX @ 60 C 0.	Finding: Report units:	0.18 Not Reported
Sample date: Chemical: DIr:	04-FEB-14 TURBIDITY, LABORATORY 0.1	Finding: Report units:	0.92 NTU
Sample date: Chemical: DIr:	04-FEB-14 AGGRSSIVE INDEX (CORROSIVITY) 0.	Finding: Report units:	12. Not Reported
Sample date: Chemical: DIr:	04-FEB-14 CALCIUM 0.	Finding: Report units:	47. MG/L
Sample date: Chemical: DIr:	04-FEB-14 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	230. MG/L
Sample date: Chemical: Dlr:	04-FEB-14 BICARBONATE ALKALINITY 0.	Finding: Report units:	230. MG/L
Sample date: Chemical: Dlr:	04-FEB-14 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	190. MG/L
Sample date: Chemical:	04-FEB-14 PH, LABORATORY	Finding: Report units:	7.8 Not Reported

Dlr: 0. 04-FEB-14 Sample date: Finding: 1000. SPECIFIC CONDUCTANCE Report units: US Chemical: Dlr: Sample date: 04-FEB-14 Finding: Chemical: COLOR Report units: **UNITS** DIr: 04-FEB-14 70. Sample date: Finding: Chemical: **SULFATE** Report units: MG/L DIr: 0.5 Sample date: 07-JAN-14 Finding: 340. **IRON** Report units: Chemical: UG/L DIr: 100. 07-JAN-14 6.9 Sample date: Finding: ARSENIC Chemical: Report units: UG/L DIr: 07-JAN-14 Sample date: Finding: 710. MANGANESE Report units: Chemical: UG/L DIr: 20. 08-OCT-13 1000. Sample date: Finding: SPECIFIC CONDUCTANCE Chemical: Report units: US DIr: Sample date: 08-OCT-13 Finding: 590. TOTAL DISSOLVED SOLIDS Chemical: Report units: MG/L DIr: Sample date: 01-OCT-13 Finding: 680. Chemical: **MANGANESE** Report units: UG/L DIr: 20. 01-OCT-13 330. Sample date: Finding: Chemical: **IRON** Report units: UG/L DIr: 100. 01-OCT-13 Sample date: Finding: 7.9 ARSENIC Report units: UG/L Chemical: DIr: 2. Sample date: 02-JUL-13 Finding: 7.1 Chemical: **ARSENIC** Report units: UG/L DIr: 2. Sample date: 02-JUL-13 780. Finding: Chemical: MANGANESE Report units: UG/L DIr: 20. Sample date: 02-JUL-13 Finding: 360. Chemical: **IRON** Report units: UG/L 100. DIr: Sample date: 02-APR-13 Finding: 7.9

ARSENIC

2.

Chemical:

DIr:

UG/L

Report units:

Sample date: Chemical: Dlr:	02-APR-13 IRON 100.	Finding: Report units:	360. UG/L
Sample date: Chemical: Dlr:	02-APR-13 MANGANESE 20.	Finding: Report units:	690. UG/L
Sample date: Chemical: Dlr:	03-JAN-13 ARSENIC 2.	Finding: Report units:	8.1 UG/L
Sample date: Chemical: Dlr:	03-JAN-13 MANGANESE 20.	Finding: Report units:	710. UG/L
Sample date: Chemical: Dlr:	03-JAN-13 IRON 100.	Finding: Report units:	490. UG/L
Sample date: Chemical: Dlr:	02-OCT-12 IRON 100.	Finding: Report units:	320. UG/L
Sample date: Chemical: Dlr:	02-OCT-12 ARSENIC 2.	Finding: Report units:	6.3 UG/L
Sample date: Chemical: Dlr:	02-OCT-12 MANGANESE 20.	Finding: Report units:	610. UG/L
Sample date: Chemical: Dlr:	14-AUG-12 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	900. US
Sample date: Chemical: Dlr:	03-JUL-12 MANGANESE 20.	Finding: Report units:	630. UG/L
Sample date: Chemical: Dlr:	03-JUL-12 IRON 100.	Finding: Report units:	410. UG/L
Sample date: Chemical: Dlr:	03-JUL-12 ARSENIC 2.	Finding: Report units:	8.2 UG/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 226 1.	Finding: Report units:	2.5 PCI/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 228 COUNTING ERROR 0.	Finding: Report units:	0.326 PCI/L
Sample date: Chemical: Dlr:	17-APR-12 RADIUM 226 COUNTING ERROR 0.	Finding: Report units:	0.808 PCI/L
Sample date: Chemical:	10-APR-12 IRON	Finding: Report units:	370. UG/L

Dlr: 100.

10-APR-12 Sample date: Finding: 8.3 **ARSENIC** Chemical: Report units: UG/L

DIr: 2.

Sample date: 10-APR-12 Finding: 630. Chemical: MANGANESE Report units: UG/L

DIr: 20.

28-FEB-12 340. Sample date: Finding: Chemical: **IRON** Report units: UG/L

DIr: 100.

28-FEB-12 Finding: Sample date: 590. MANGANESE Chemical: Report units: UG/L

DIr:

28-FEB-12 Sample date: Finding: 8.1 Report units: UG/L

ARSENIC Chemical: DIr:

24-JAN-12 Sample date: Finding: 3.24 RADIUM 226 Report units: Chemical: PCI/L

DIr:

24-JAN-12 Sample date: Finding: 0.809

RADIUM 226 COUNTING ERROR Chemical: Report units: PCI/L

DIr:

Sample date: 24-JAN-12 Finding: 0.282

RADIUM 228 COUNTING ERROR Chemical: Report units: PCI/L

DIr:

NNE **CA WELLS** 23258 1/8 - 1/4 Mile

Lower

Seq: 23258 Prim sta c: K10/005-7-10BLN 1010005013 Frds no: County: 10

District: User id: **AGE** 11 1010005 System no: Water type: G

Source nam: WELLS 7 & 10 BLEND Station ty: WELL/MIX/AMBNT

Latitude: 365122.0 Longitude: 1202638.0 Precision: Status: CM

Not Reported Comment 2: Not Reported Comment 1: Not Reported Comment 3: Comment 4: Not Reported Comment 5: Not Reported Comment 6: Not Reported

Not Reported Comment 7:

City Of Firebaugh System no: 1010005 System nam:

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City: **FIREBAUGH** State: Not Reported Not Reported Zip: 93622 Zip ext:

4970 997 Pop serv: Connection: Area serve: **FIREBAUGH**

Мар	ID
Direc	ction
Dista	ance
-1	- 4:

Database EDR ID Number Elevation NNE **CA WELLS** 23259 1/8 - 1/4 Mile Lower Seq: 23259 Prim sta c: K10/005-7-12BLN Frds no: 1010005015 County: 10 District: User id: **AGE** 11 1010005 System no: Water type: G Source nam: WELLS 07 & 12 BLEND Station ty: WELLS/MIX/AMBNT Latitude: 365122.0 Longitude: 1202638.0 Precision: Status: CM 3 Not Reported Not Reported Comment 1: Comment 2: Comment 3: Not Reported Comment 4: Not Reported Comment 5: Not Reported Comment 6: Not Reported Not Reported Comment 7: System no: 1010005 System nam: City Of Firebaugh Hqname: Not Reported Address: 1575 ELEVENTH STREET City: **FIREBAUGH** State: Not Reported Zip: 93622 Zip ext: Not Reported

Connection:

Area serve: FIREBAUGH

B9 NNE 1/8 - 1/4 Mile Lower

Area serve:

Pop serv:

4970

FIREBAUGH

CA WELLS 23261

997

K10/005-SITE2TR 23261 Seq: Prim sta c: 1010005012 County: Frds no: 10 District: 11 User id: AGE System no: 1010005 Water type: SITE 2 - TREATED Station ty: WELL/AMBNT Source nam: 1202638.0 Latitude: 365122.0 Longitude: Precision: 3 Status: ΑT Not Reported Comment 1: Not Reported Comment 2: Comment 3: Not Reported Comment 4: Not Reported Not Reported Not Reported Comment 5: Comment 6: Not Reported Comment 7: System no: 1010005 System nam: City Of Firebaugh Hqname: Not Reported Address:

Hqname:Not ReportedAddress:1575 ELEVENTH STREETCity:FIREBAUGHState:Not Reported

 Zip:
 93622
 Zip ext:
 Not Reported

 Pop serv:
 4970
 Connection:
 997

Sample date: 27-MAR-18 Finding: 2.4

Chemical: ARSENIC Report units: UG/L DIr: 2.

Sample date: 27-MAR-18 Finding: 25.
Chemical: MANGANESE Report units: UG/L

DIr: 20.

Sample date: 20-MAR-18 Finding: 23. Chemical: MANGANESE Report units: UG/L

Dlr: 20.

Sample date: Chemical: Dlr:	20-MAR-18 ARSENIC 2.	Finding: Report units:	3. UG/L
Sample date: Chemical: Dlr:	13-MAR-18 MANGANESE 20.	Finding: Report units:	29. UG/L
Sample date: Chemical: Dlr:	13-MAR-18 ARSENIC 2.	Finding: Report units:	3.2 UG/L
Sample date: Chemical: Dlr:	06-MAR-18 ARSENIC 2.	Finding: Report units:	3.6 UG/L
Sample date: Chemical: Dlr:	06-MAR-18 MANGANESE 20.	Finding: Report units:	33. UG/L
Sample date: Chemical: Dlr:	27-FEB-18 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	27-FEB-18 MANGANESE 20.	Finding: Report units:	30. UG/L
Sample date: Chemical: Dlr:	20-FEB-18 MANGANESE 20.	Finding: Report units:	32. UG/L
Sample date: Chemical: Dlr:	20-FEB-18 ARSENIC 2.	Finding: Report units:	3.4 UG/L
Sample date: Chemical: Dlr:	14-FEB-18 ARSENIC 2.	Finding: Report units:	3.3 UG/L
Sample date: Chemical: Dlr:	14-FEB-18 MANGANESE 20.	Finding: Report units:	35. UG/L
Sample date: Chemical: Dlr:	06-FEB-18 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	06-FEB-18 MANGANESE 20.	Finding: Report units:	32. UG/L
Sample date: Chemical: Dlr:	30-JAN-18 MANGANESE 20.	Finding: Report units:	27. UG/L
Sample date: Chemical: Dlr:	30-JAN-18 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical:	23-JAN-18 MANGANESE	Finding: Report units:	30. UG/L

DIr:	20.		
Sample date: Chemical: Dlr:	23-JAN-18 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: Dlr:	16-JAN-18 ARSENIC 2.	Finding: Report units:	3. UG/L
Sample date: Chemical: DIr:	16-JAN-18 MANGANESE 20.	Finding: Report units:	30. UG/L
Sample date: Chemical: Dlr:	08-JAN-18 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	08-JAN-18 MANGANESE 20.	Finding: Report units:	24. UG/L
Sample date: Chemical: DIr:	02-JAN-18 MANGANESE 20.	Finding: Report units:	25. UG/L
Sample date: Chemical: DIr:	02-JAN-18 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: DIr:	26-DEC-17 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: DIr:	26-DEC-17 MANGANESE 20.	Finding: Report units:	29. UG/L
Sample date: Chemical: DIr:	19-DEC-17 MANGANESE 20.	Finding: Report units:	30. UG/L
Sample date: Chemical: DIr:	19-DEC-17 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: DIr:	12-DEC-17 MANGANESE 20.	Finding: Report units:	33. UG/L
Sample date: Chemical: DIr:	12-DEC-17 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: DIr:	05-DEC-17 ARSENIC 2.	Finding: Report units:	3.4 UG/L
Sample date: Chemical: Dlr:	05-DEC-17 MANGANESE 20.	Finding: Report units:	31. UG/L

Sample date: Chemical: Dlr:	28-NOV-17 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: Dlr:	28-NOV-17 MANGANESE 20.	Finding: Report units:	28. UG/L
Sample date: Chemical: Dlr:	21-NOV-17 MANGANESE 20.	Finding: Report units:	27. UG/L
Sample date: Chemical: Dlr:	21-NOV-17 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	14-NOV-17 ARSENIC 2.	Finding: Report units:	3.1 UG/L
Sample date: Chemical: Dlr:	07-NOV-17 MANGANESE 20.	Finding: Report units:	23. UG/L
Sample date: Chemical: Dlr:	31-OCT-17 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	24-OCT-17 MANGANESE 20.	Finding: Report units:	25. UG/L
Sample date: Chemical: Dlr:	17-OCT-17 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	10-OCT-17 MANGANESE 20.	Finding: Report units:	25. UG/L
Sample date: Chemical: Dlr:	10-OCT-17 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	03-OCT-17 MANGANESE 20.	Finding: Report units:	27. UG/L
Sample date: Chemical: Dlr:	03-OCT-17 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	26-SEP-17 MANGANESE 20.	Finding: Report units:	33. UG/L
Sample date: Chemical: Dlr:	19-SEP-17 MANGANESE 20.	Finding: Report units:	30. UG/L
Sample date: Chemical:	12-SEP-17 MANGANESE	Finding: Report units:	44. UG/L

DIr:	20.		
Sample date: Chemical: Dlr:	05-SEP-17 MANGANESE 20.	Finding: Report units:	78. UG/L
Sample date: Chemical: Dlr:	05-SEP-17 ARSENIC 2.	Finding: Report units:	3. UG/L
Sample date: Chemical: DIr:	29-AUG-17 MANGANESE 20.	Finding: Report units:	35. UG/L
Sample date: Chemical: DIr:	20-JUN-17 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: DIr:	13-JUN-17 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: DIr:	06-JUN-17 ARSENIC 2.	Finding: Report units:	3.3 UG/L
Sample date: Chemical: DIr:	30-MAY-17 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: DIr:	09-MAY-17 ARSENIC 2.	Finding: Report units:	4.3 UG/L
Sample date: Chemical: DIr:	02-MAY-17 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	18-APR-17 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	04-APR-17 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	14-MAR-17 IRON 100.	Finding: Report units:	120. UG/L
Sample date: Chemical: Dlr:	28-FEB-17 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	21-FEB-17 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	07-FEB-17 ARSENIC 2.	Finding: Report units:	2.6 UG/L

Sample date: Chemical: DIr:	31-JAN-17 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	24-JAN-17 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	17-JAN-17 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	10-JAN-17 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: Dlr:	03-JAN-17 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	27-DEC-16 ARSENIC 2.	Finding: Report units:	3.1 UG/L
Sample date: Chemical: Dlr:	13-DEC-16 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	15-NOV-16 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	08-NOV-16 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	25-OCT-16 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	18-OCT-16 ARSENIC 2.	Finding: Report units:	4.6 UG/L
Sample date: Chemical: Dlr:	04-OCT-16 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	27-SEP-16 CALCIUM 0.	Finding: Report units:	50. MG/L
Sample date: Chemical: Dlr:	27-SEP-16 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	620. MG/L
Sample date: Chemical: Dlr:	27-SEP-16 BORON 100.	Finding: Report units:	300. UG/L
Sample date: Chemical:	27-SEP-16 SILICA	Finding: Report units:	45. MG/L

Dlr: 0. 27-SEP-16 Sample date: Finding: 77. **SULFATE** Report units: MG/L Chemical: DIr: 0.5 Sample date: 27-SEP-16 Finding: 180. Chemical: CHLORIDE Report units: MG/L DIr: 27-SEP-16 Sample date: Finding: 4.1 Chemical: **POTASSIUM** Report units: MG/L DIr: 27-SEP-16 Sample date: Finding: 130. SODIUM Chemical: Report units: MG/L DIr: 27-SEP-16 Sample date: Finding: 33. Chemical: **MAGNESIUM** Report units: MG/L DIr: 27-SEP-16 Sample date: Finding: 260. HARDNESS (TOTAL) AS CACO3 Report units: Chemical: MG/L DIr: 27-SEP-16 230. Sample date: Finding: BICARBONATE ALKALINITY Chemical: Report units: MG/L DIr: Sample date: 27-SEP-16 Finding: 190. Chemical: ALKALINITY (TOTAL) AS CACO3 Report units: MG/L DIr: Sample date: 27-SEP-16 Finding: 1000. SPECIFIC CONDUCTANCE Chemical: Report units: US DIr: 0. 27-SEP-16 Finding: Sample date: 7.8 Not Reported Chemical: PH, LABORATORY Report units: DIr: 0. 13-SEP-16 Sample date: Finding: 2.1 ARSENIC Report units: UG/L Chemical: DIr: Sample date: 06-SEP-16 Finding: 3.6 Chemical: **ARSENIC** Report units: UG/L DIr: Sample date: 30-AUG-16 Finding: 2.3 Chemical: ARSENIC Report units: UG/L DIr: Sample date: 23-AUG-16 Finding: UG/L Chemical: ARSENIC Report units: DIr:

Sample date:

Chemical:

DIr:

16-AUG-16

ARSENIC

2.

3.7

UG/L

Finding:

Report units:

Sample date: Chemical: DIr:	09-AUG-16 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	26-JUL-16 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical: Dlr:	28-JUN-16 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	21-JUN-16 ARSENIC 2.	Finding: Report units:	4.3 UG/L
Sample date: Chemical: Dlr:	14-JUN-16 ARSENIC 2.	Finding: Report units:	3. UG/L
Sample date: Chemical: Dlr:	07-JUN-16 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	24-MAY-16 ARSENIC 2.	Finding: Report units:	3.4 UG/L
Sample date: Chemical: Dlr:	17-MAY-16 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	10-MAY-16 ARSENIC 2.	Finding: Report units:	3.7 UG/L
Sample date: Chemical: Dlr:	03-MAY-16 ARSENIC 2.	Finding: Report units:	3.3 UG/L
Sample date: Chemical: Dlr:	12-APR-16 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	29-MAR-16 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	23-FEB-16 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	09-FEB-16 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	02-FEB-16 ARSENIC 2.	Finding: Report units:	2.9 UG/L
Sample date: Chemical:	12-JAN-16 ARSENIC	Finding: Report units:	2.4 UG/L

Dlr:

Sample date:

Sample date:

Sample date:

Sample date:

Chemical:

Chemical:

Chemical:

Chemical:

DIr:

DIr:

DIr:

DIr:

29-DEC-15

29-DEC-15

29-DEC-15

29-DEC-15

0.

0.

PH, LABORATORY

SPECIFIC CONDUCTANCE

ALKALINITY (TOTAL) AS CACO3

HARDNESS (TOTAL) AS CACO3

2.

Sample date: 05-JAN-16 Finding: 2.1 **ARSENIC** Report units: UG/L Chemical: DIr: 2. Sample date: 30-DEC-15 Finding: 0.2 Chemical: AMMONIA (NH3-N) Report units: MG/L DIr: 29-DEC-15 210. Sample date: Finding: Chemical: **BICARBONATE ALKALINITY** Report units: MG/L DIr: Sample date: 29-DEC-15 Finding: 600. TOTAL DISSOLVED SOLIDS Chemical: Report units: MG/L DIr: 29-DEC-15 260. Sample date: Finding: **BORON** Chemical: Report units: UG/L DIr: 100. 29-DEC-15 Sample date: Finding: 2.2 Report units: UG/L Chemical: **ARSENIC** DIr: 2. 29-DEC-15 Sample date: Finding: 41. Chemical: SILICA Report units: MG/L DIr: Sample date: 29-DEC-15 Finding: 74. Chemical: **SULFATE** Report units: MG/L DIr: 0.5 Sample date: 29-DEC-15 Finding: 170. Chemical: CHLORIDE Report units: MG/L DIr: 0. 29-DEC-15 Sample date: Finding: 3.9 **POTASSIUM** Chemical: Report units: MG/L DIr: 29-DEC-15 Sample date: Finding: 120. SODIUM Report units: MG/L Chemical: DIr: 0.

Report units: MG/L

Finding:

Finding:

Finding:

Finding:

Report units:

Report units:

Report units:

1000.

US

7.7

170.

MG/L

240.

Not Reported

Sample date: Chemical: Dlr:	29-DEC-15 CALCIUM 0.	Finding: Report units:	48. MG/L
Sample date: Chemical: Dlr:	29-DEC-15 MAGNESIUM 0.	Finding: Report units:	29. MG/L
Sample date: Chemical: Dlr:	22-DEC-15 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	01-DEC-15 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	17-NOV-15 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	29-SEP-15 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	11-AUG-15 MANGANESE 20.	Finding: Report units:	29. UG/L
Sample date: Chemical: Dlr:	07-JUL-15 IRON 100.	Finding: Report units:	140. UG/L
Sample date: Chemical: Dlr:	05-MAY-15 IRON 100.	Finding: Report units:	790. UG/L
Sample date: Chemical: Dlr:	10-FEB-15 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	30-DEC-14 IRON 100.	Finding: Report units:	110. UG/L
Sample date: Chemical: Dlr:	23-DEC-14 ARSENIC 2.	Finding: Report units:	9.1 UG/L
Sample date: Chemical: Dlr:	16-DEC-14 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	09-DEC-14 ARSENIC 2.	Finding: Report units:	7.5 UG/L
Sample date: Chemical: Dlr:	07-OCT-14 MAGNESIUM 0.	Finding: Report units:	33. MG/L
Sample date: Chemical:	07-OCT-14 TOTAL DISSOLVED SOLIDS	Finding: Report units:	580. MG/L

DIr: 0.

Sample date: 07-OCT-14 Finding: 330. Chemical: BORON Report units: UG/L

Dlr: 100.

Sample date: 07-OCT-14 Finding: 45. Chemical: SILICA Report units: MG/L

DIr: 0.

Sample date: 07-OCT-14 Finding: 97. Chemical: SULFATE Report units: MG/L

Dlr: 0.5

Sample date: 07-OCT-14 Finding: 1000.

Chemical: SPECIFIC CONDUCTANCE Report units: US DIr: 0.

Sample date: 07-OCT-14 Finding: 7.7

Chemical: PH, LABORATORY Report units: Not Reported

Dlr: 0.

Sample date: 07-OCT-14 Finding: 160.

Chemical: ALKALINITY (TOTAL) AS CACO3 Report units: MG/L

DIr: 0.

Sample date: 07-OCT-14 Finding: 200.

Chemical: BICARBONATE ALKALINITY Report units: MG/L

Dir: 0

Sample date: 07-OCT-14 Finding: 270.

Chemical: HARDNESS (TOTAL) AS CACO3 Report units: MG/L DIr: 0.

Sample date: 07-OCT-14 Finding: 52.
Chemical: CALCIUM Report units: MG/L

Chemical: CALCIUM Report units: MG/L
Dir: 0.

Sample date: 07-OCT-14 Finding: 120.
Chemical: SODIUM Report units: MG/L

Dir: 0.

Sample date: 07-OCT-14 Finding: 4.2 Chemical: POTASSIUM Report units: MG/L

Dir: 0.

Sample date: 07-OCT-14 Finding: 170.
Chemical: CHLORIDE Report units: MG/L

Chemical: CHLORIDE Report units: MG/L
Dir: 0.

Sample date: 23-SEP-14 Finding: 41.

Chemical: MANGANESE Report units: UG/L DIr: 20.

Sample date: 21-JUL-14 Finding: 2.8

Chemical: ARSENIC Report units: UG/L DIr: 2.

Sample date: 15-JUL-14 Finding: 2.6

Chemical: ARSENIC Report units: UG/L DIr: 2.

Sample date: Chemical: Dlr:	17-JUN-14 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	27-MAY-14 ARSENIC 2.	Finding: Report units:	5. UG/L
Sample date: Chemical: Dlr:	25-FEB-14 ARSENIC 2.	Finding: Report units:	3.3 UG/L
Sample date: Chemical: Dlr:	23-DEC-13 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical: Dlr:	03-DEC-13 IRON 100.	Finding: Report units:	610. UG/L
Sample date: Chemical: Dlr:	19-NOV-13 ARSENIC 2.	Finding: Report units:	3.3 UG/L
Sample date: Chemical: Dlr:	29-OCT-13 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	22-OCT-13 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	15-OCT-13 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	08-OCT-13 PH, LABORATORY 0.	Finding: Report units:	7.9 Not Reported
Sample date: Chemical: Dlr:	08-OCT-13 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	590. MG/L
Sample date: Chemical: Dlr:	08-OCT-13 BORON 100.	Finding: Report units:	270. UG/L
Sample date: Chemical: Dlr:	08-OCT-13 SILICA 0.	Finding: Report units:	39. MG/L
Sample date: Chemical: Dlr:	08-OCT-13 SULFATE 0.5	Finding: Report units:	100. MG/L
Sample date: Chemical: Dlr:	08-OCT-13 CHLORIDE 0.	Finding: Report units:	180. MG/L
Sample date: Chemical:	08-OCT-13 POTASSIUM	Finding: Report units:	3.7 MG/L

DIr:	0.		
Sample date: Chemical: Dlr:	08-OCT-13 SODIUM 0.	Finding: Report units:	110. MG/L
Sample date: Chemical: Dlr:	08-OCT-13 MAGNESIUM 0.	Finding: Report units:	30. MG/L
Sample date: Chemical: Dlr:	08-OCT-13 CALCIUM 0.	Finding: Report units:	47. MG/L
Sample date: Chemical: DIr:	08-OCT-13 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	240. MG/L
Sample date: Chemical: DIr:	08-OCT-13 BICARBONATE ALKALINITY 0.	Finding: Report units:	210. MG/L
Sample date: Chemical: DIr:	08-OCT-13 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	170. MG/L
Sample date: Chemical: DIr:	08-OCT-13 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	1000. US
Sample date: Chemical: DIr:	01-OCT-13 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: DIr:	17-SEP-13 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: DIr:	27-AUG-13 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	13-AUG-13 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	04-JUN-13 ARSENIC 2.	Finding: Report units:	3.1 UG/L
Sample date: Chemical: Dlr:	28-MAY-13 ARSENIC 2.	Finding: Report units:	3.1 UG/L
Sample date: Chemical: DIr:	21-MAY-13 ARSENIC 2.	Finding: Report units:	4.2 UG/L
Sample date: Chemical: Dlr:	14-MAY-13 ARSENIC 2.	Finding: Report units:	3.2 UG/L

Sample date: Chemical: DIr:	07-MAY-13 ARSENIC 2.	Finding: Report units:	6.3 UG/L
Sample date: Chemical: Dlr:	30-APR-13 ARSENIC 2.	Finding: Report units:	4.3 UG/L
Sample date: Chemical: Dlr:	23-APR-13 ARSENIC 2.	Finding: Report units:	4.2 UG/L
Sample date: Chemical: Dlr:	16-APR-13 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	09-APR-13 ARSENIC 2.	Finding: Report units:	4.3 UG/L
Sample date: Chemical: Dlr:	02-APR-13 ARSENIC 2.	Finding: Report units:	3.6 UG/L
Sample date: Chemical: Dlr:	26-MAR-13 ARSENIC 2.	Finding: Report units:	3.9 UG/L
Sample date: Chemical: Dlr:	19-MAR-13 ARSENIC 2.	Finding: Report units:	3.1 UG/L
Sample date: Chemical: Dlr:	12-MAR-13 ARSENIC 2.	Finding: Report units:	3.8 UG/L
Sample date: Chemical: Dlr:	18-DEC-12 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	11-DEC-12 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	04-DEC-12 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	20-NOV-12 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: Dlr:	06-NOV-12 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	23-OCT-12 ARSENIC 2.	Finding: Report units:	5.9 UG/L
Sample date: Chemical:	23-OCT-12 IRON	Finding: Report units:	110. UG/L

DIr:	100.		
Sample date: Chemical: Dlr:	16-OCT-12 ARSENIC 2.	Finding: Report units:	2.2 UG/L
Sample date: Chemical: Dlr:	09-OCT-12 ARSENIC 2.	Finding: Report units:	2.8 UG/L
Sample date: Chemical: Dlr:	25-SEP-12 ARSENIC 2.	Finding: Report units:	9.5 UG/L
Sample date: Chemical: DIr:	18-SEP-12 ARSENIC 2.	Finding: Report units:	9. UG/L
Sample date: Chemical: DIr:	04-SEP-12 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: DIr:	21-AUG-12 ARSENIC 2.	Finding: Report units:	2.4 UG/L
Sample date: Chemical: DIr:	14-AUG-12 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	470. MG/L
Sample date: Chemical: DIr:	14-AUG-12 BORON 100.	Finding: Report units:	270. UG/L
Sample date: Chemical: DIr:	14-AUG-12 SILICA 0.	Finding: Report units:	38. MG/L
Sample date: Chemical: DIr:	14-AUG-12 SULFATE 0.5	Finding: Report units:	85. MG/L
Sample date: Chemical: DIr:	14-AUG-12 CHLORIDE 0.	Finding: Report units:	140. MG/L
Sample date: Chemical: DIr:	14-AUG-12 SODIUM 0.	Finding: Report units:	100. MG/L
Sample date: Chemical: DIr:	14-AUG-12 MAGNESIUM 0.	Finding: Report units:	29. MG/L
Sample date: Chemical: DIr:	14-AUG-12 CALCIUM 0.	Finding: Report units:	44. MG/L
Sample date: Chemical: Dlr:	14-AUG-12 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	230. MG/L

Sample date: Chemical: Dlr:	14-AUG-12 AMMONIA (NH3-N) 0.	Finding: Report units:	0.16 MG/L
Sample date: Chemical: Dlr:	14-AUG-12 BICARBONATE ALKALINITY 0.	Finding: Report units:	130. MG/L
Sample date: Chemical: Dlr:	14-AUG-12 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	110. MG/L
Sample date: Chemical: Dlr:	14-AUG-12 PH, LABORATORY 0.	Finding: Report units:	8. Not Reported
Sample date: Chemical: Dlr:	14-AUG-12 SPECIFIC CONDUCTANCE 0.	Finding: Report units:	820. US
Sample date: Chemical: Dlr:	14-AUG-12 POTASSIUM 0.	Finding: Report units:	3.5 MG/L
Sample date: Chemical: Dlr:	07-AUG-12 ARSENIC 2.	Finding: Report units:	3. UG/L
Sample date: Chemical: Dlr:	24-JUL-12 ARSENIC 2.	Finding: Report units:	3.8 UG/L
Sample date: Chemical: Dlr:	17-JUL-12 ARSENIC 2.	Finding: Report units:	2.6 UG/L
Sample date: Chemical: Dlr:	10-JUL-12 ARSENIC 2.	Finding: Report units:	4.9 UG/L
Sample date: Chemical: Dlr:	12-JUN-12 ARSENIC 2.	Finding: Report units:	2.1 UG/L
Sample date: Chemical: Dlr:	24-APR-12 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	10-APR-12 ARSENIC 2.	Finding: Report units:	2.3 UG/L
Sample date: Chemical: Dlr:	03-APR-12 ARSENIC 2.	Finding: Report units:	2.7 UG/L
Sample date: Chemical: Dlr:	20-MAR-12 ARSENIC 2.	Finding: Report units:	2.5 UG/L
Sample date: Chemical:	06-MAR-12 ARSENIC	Finding: Report units:	3.2 UG/L

DIr: 2.

Sample date: 17-JAN-12 Finding: 120. Chemical: IRON Report units: UG/L

Dlr: 100.

ENE CA WELLS CADDW2000021320

1/8 - 1/4 Mile Lower

GAMA:

 Well ID:
 CA1010005_014_014
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-014

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=CA1010005_014_014&store_num=

GeoTracker Data: Not Reported

SE CA WELLS CADPR000003326

1/8 - 1/4 Mile Higher

Well ID: 89487 Well Type: UNK

Source: Department of Pesticide Regulation

Other Name: 89487 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=89487&store_num=

GeoTracker Data: Not Reported

C12 NNW FED USGS USGS40000178732

1/8 - 1/4 Mile Lower

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28L004M Type: Well Description: Not Reported HUC: 18040001 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: 19540101 Well Depth: Not Reported

Well Depth Units: Not Reported Well Hole Depth: 195

Well Hole Depth Units: ft

East 1/8 - 1/4 Mile

Lower

GAMA:

 Well ID:
 CA1010005_019_019
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-019

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=CA1010005_019_019&store_num=

GeoTracker Data: Not Reported

14 North CA WELLS CADWR000029770

1/4 - 1/2 Mile Higher

Well ID: 12S14E28K002M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28K002M 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=12S14E28K002M&store_num=

GeoTracker Data: Not Reported

C15 NW FED USGS USGS40000178741

1/4 - 1/2 Mile Lower

Organization ID: USGS-CA

USGS California Water Science Center Organization Name: Monitor Location: 012S014E28L003M Type: Well Description: Not Reported HUC: 18040001 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: 19620823 Well Depth: 182

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

16 NW FED USGS USGS40000178735

Contrib Drainage Area Unts:

1/4 - 1/2 Mile Higher

Contrib Drainage Area:

Organization ID: USGS-CA

 Organization Name:
 USGS California Water Science Center

 Monitor Location:
 012S014E28L001M
 Type:
 Well

 Description:
 Not Reported
 HUC:
 18040001

 Drainage Area:
 Not Reported
 Drainage Area Units:
 Not Reported

Aquifer: Central Valley aquifer system

Not Reported

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: 1951-04-01 Feet below surface: 14.00 Feet to sea level: Not Reported

Note: Not Reported

Not Reported

Map ID Direction Distance

Elevation Database EDR ID Number

17

CA WELLS CADDW2000004522 **ESE** 1/4 - 1/2 Mile

Lower

GAMA:

Well ID: CA1010005_007_007 MUNICIPAL Well Type: DDW Source: Other Names: 1010005-007

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=CA1010005_007_007&store_num=

GeoTracker Data: Not Reported

FED USGS USGS40000178728 **ENE** 1/4 - 1/2 Mile

Higher

Organization ID: **USGS-CA**

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28J003M Well Type: Description: Not Reported HUC: 18040001 Drainage Area: Not Reported Drainage Area Units: Not Reported Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported

Aquifer:

Formation Type: Not Reported Aquifer Type: Not Reported

Construction Date: 196307 Well Depth: 200 Well Depth Units: ft Well Hole Depth: 208

Central Valley aquifer system

ft Well Hole Depth Units:

D19 **CA WELLS** CADDW2000017083 SW

1/4 - 1/2 Mile Higher

GAMA:

Lower

Well ID: **MUNICIPAL** CA1010005_005_005 Well Type: Source: DDW Other Names: 1010005-005

GAMA Pfas testing: Not Reported

 $https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboa$ Groundwater Quality Data:

date=&global_id=&assigned_name=CA1010005_005_005&store_num=

GeoTracker Data: Not Reported

20 **CA WELLS** CADWR9000031336 1/4 - 1/2 Mile

State Well #: 12S14E28G001M 14783 Station ID:

Well Name: Not Reported Basin Name: Delta-Mendota Well Use: Unknown Well Type: Unknown Well Depth: 0 Well Completion Rpt #: Not Reported

Map ID Direction Distance

Elevation Database EDR ID Number

21 SSE

FED USGS USGS40000178578

Well

1/4 - 1/2 Mile Lower

> Organization ID: **USGS-CA**

Organization Name: USGS California Water Science Center Monitor Location: 012S014E33B002M Type:

18040001 Description: Not Reported HUC: 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: Well Depth: Not Reported 215

Well Hole Depth: Well Depth Units: Not Reported

Well Hole Depth Units: Not Reported

22 NW **CA WELLS** CADWR0000003413 1/4 - 1/2 Mile

Higher

Well ID: 12S14E28L004M Well Type: UNK

Source: Department of Water Resources

12S14E28L004M GAMA PFAS Testing: Other Name: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_

date=&global id=&assigned name=12S14E28L004M&store num=

GeoTracker Data: Not Reported

D23 SW 1/4 - 1/2 Mile **CA WELLS** 11071

Higher

Seq: 11071 Prim sta c: 12S/14E-33B02 M

1010005005 Frds no: County: 10 District: User id: **AGE** 11 1010005 Water type: System no: G

Source nam: WELL 05 - AGRICULTURAL Station ty: WELL/AMBNT/MUN/INTAKE/SUPPLY

Latitude: 365100.0 Longitude: 1202700.0 Precision: Status: AG

Not Reported Comment 1: Comment 2: Not Reported Comment 3: Not Reported Comment 4: Not Reported Comment 5: Not Reported Comment 6: Not Reported

Not Reported Comment 7:

System no: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City: **FIREBAUGH** State: Not Reported Not Reported Zip: 93622 Zip ext:

997 Pop serv: 4970 Connection:

Area serve: **FIREBAUGH**

Map ID Direction Distance

EDR ID Number Elevation Database

ENE

CA WELLS CADWR0000003303

CADDW2000006449

CAEDF0000098647

CA WELLS

CA WELLS

1/2 - 1 Mile Lower

> Well ID: 12S14E27M001M Well Type: UNK

Department of Water Resources Source:

GAMA PFAS Testing: Not Reported Other Name: 12S14E27M001M

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_

date=&global_id=&assigned_name=12S14E27M001M&store_num=

GeoTracker Data: Not Reported

F25 ENE

1/2 - 1 Mile Lower

GAMA:

Well ID: MUNICIPAL CA2000512_003_003 Well Type: Source: DDW Other Names: 2000512-003

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=CA2000512_003_003&store_num=

GeoTracker Data: Not Reported

G26

West 1/2 - 1 Mile Higher

> Well ID: T0601900052-MW-6 **MONITORING** Well Type:

Source: **EDF** Other Name: MW-6

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-6&store_num=

https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi GeoTracker Data:

gned_name=MW-6

G27 CA WELLS CAEDF0000020359 West

1/2 - 1 Mile Higher

> T0601900052-MW-5 **MONITORING** Well ID: Well Type: Source: **EDF** Other Name: MW-5

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-5&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned name=MW-5

Map ID Direction Distance

EDR ID Number Elevation Database

G28 West

CA WELLS CAEDF0000016139

1/2 - 1 Mile Higher

> Well ID: T0601900052-MW-9 Well Type: MONITORING

EDF Other Name: MW-9 Source:

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-9&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-9

H29 CA WELLS CADDW2000005666 NNW 1/2 - 1 Mile Lower

GAMA:

Well ID: CA1010005_017_017 MUNICIPAL Well Type: Source: DDW Other Names: 1010005-017

GAMA Pfas testing: Not Reported

 $https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_thtps://gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.ca.gov/gamagroundwater.waterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboards.co.gov/gamagroundwaterboa$ Groundwater Quality Data:

date=&global_id=&assigned_name=CA1010005_017_017&store_num=

GeoTracker Data: Not Reported

F30 ENE **CA WELLS** CADDW2000018833

1/2 - 1 Mile Lower

GAMA:

Well ID: CA2000512_001_001 Well Type: **MUNICIPAL** Source: **DDW** Other Names: 2000512-001

GAMA Pfas testing: Not Reported

https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_ Groundwater Quality Data:

date=&global_id=&assigned_name=CA2000512_001_001&store_num=

GeoTracker Data: Not Reported

G31 West **CA WELLS**

1/2 - 1 Mile Higher

> Well ID: T0601900052-MW-3 Well Type: **MONITORING EDF** Other Name: MW-3 Source:

GAMA PFAS Testing:

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-3&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-3

CAEDF0000009347

Map ID Direction Distance

Elevation Database EDR ID Number

G32 West

CA WELLS CAEDF0000118723

1/2 - 1 Mile Higher

Well ID: T0601900052-MW-1 Well Type: MONITORING

Source: EDF Other Name: MW-1

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-1&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-1

H33
NNW
FED USGS USGS40000178800
1/2 - 1 Mile

Lower

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28E002M Well Type: Description: Not Reported HUC: 18040001 Drainage Area: Not Reported Drainage Area Units: Not Reported Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported

Aquifer:

Formation Type: Not Reported Aquifer Type: Not Reported

Construction Date: 1940 Well Depth: 156

Central Valley aquifer system

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

G34
West CA WELLS CAEDF0000110592

1/2 - 1 Mile Higher

Well ID: T0601900052-RW-1 Well Type: MONITORING

Source: EDF Other Name: RW-1

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=RW-1&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=RW-1

G35
West CA WELLS CAEDF0000109954

1/2 - 1 Mile Higher

Well ID: T0601900052-RW-2 Well Type: MONITORING

Source: EDF Other Name: RW-2

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=RW-2&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=RW-2

Map ID Direction Distance

Elevation Database EDR ID Number

G36 West

1/2 - 1 Mile Higher

Well ID: T0601900052-MW-7 Well Type: MONITORING

Source: EDF Other Name: MW-7

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-7&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-7

H37
NNW
CA WELLS CADDW200006609

NNW 1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_018_018
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-018

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=CA1010005_018_018&store_num=

GeoTracker Data: Not Reported

G38 West 1/2 - 1 Mile Higher

Well ID: T0601900052-MW-4 Well Type: MONITORING

Source: EDF Other Name: MW-4

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-4&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-4

G39
West CA WELLS CAEDF0000071475

West 1/2 - 1 Mile Higher

 Well ID:
 T0601900052-MW-2
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-2

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-2&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-2

CA WELLS

CAEDF0000048182

Map ID Direction Distance

EDR ID Number Elevation Database

ENE

E40

FED USGS USGS40000178754

1/2 - 1 Mile Lower

> Organization ID: **USGS-CA**

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28J001M Well Type: 18040001 Description: Not Reported HUC: 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: 1948 Well Depth: 150

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

Ground water levels, Number of Measurements: Level reading date: 1964-09-01 1 Feet below surface: 20.00 Feet to sea level: Not Reported

Note: Not Reported

G41 West **CA WELLS** CAEDF0000020369

1/2 - 1 Mile Higher

> Well ID: T0601900052-MW-11 Well Type: **MONITORING** Source: **EDF** Other Name: MW-11

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-11&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned name=MW-11

H42 NNW **CA WELLS** CAUSGSN00014471

1/2 - 1 Mile Lower

> Well ID: USGS-365100120270001 Well Type: UNK

United States Geological Survey Source:

USGS-365100120270001 **GAMA PFAS Testing:** Not Reported Other Name:

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&s

amp_date=&global_id=&assigned_name=USGS-365100120270001&store_num=

GeoTracker Data: Not Reported

H43 **CA WELLS** CAUSGS000002530 NNW

1/2 - 1 Mile Lower

GAMA:

Well ID: DM-05 Well Type: MUNICIPAL

Source: United States Geological Survey

Other Names: DM-05 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=DM-05&store_num=

GeoTracker Data: Not Reported

NW CA WELLS CADDW200004235

1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_006_006
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-006

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=CA1010005_006_006&store_num=

GeoTracker Data: Not Reported

G45 West 1/2 - 1 Mile Higher

 Well ID:
 T0601900052-MW-13
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-13

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp

date=&global_id=T0601900052&assigned_name=MW-13&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-13

G46
West CA WELLS CAEDF000047007

1/2 - 1 Mile Higher

 Well ID:
 T0601900052-MW-10
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-10

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-10&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-10

G47
West CA WELLS CAEDF0000043973

1/2 - 1 Mile Higher

Well ID: T0601900052-MW-8 Well Type: MONITORING

Source: EDF Other Name: MW-8

GAMA PFAS Testing: Not Reported

 $Groundwater\ Quality\ Data: \\ https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF\&samp_index.pdf.$

date=&global_id=T0601900052&assigned_name=MW-8&store_num=

CAEDF0000055436

CA WELLS

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-8

G48
West CA WELLS CAEDF0000039785

1/2 - 1 Mile Higher

 Well ID:
 T0601900052-MW-12
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-12

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

 $date = \&global_id = T0601900052\&assigned_name = MW-12\&store_num =$

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-12

149
NW FED USGS USGS40000178797
1/2 - 1 Mile

Lower

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E28E001M Well Type: Description: Not Reported HUC: 18040001 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: 1938 Well Depth: 172

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

G50
West CA WELLS CAEDF0000011969

West 1/2 - 1 Mile Higher

 Well ID:
 T0601900052-MW-14
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-14

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T0601900052&assigned_name=MW-14&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601900052&assi

gned_name=MW-14

NNW CA WELLS CAEDF0000029121

1/2 - 1 Mile Lower

Well ID: AGC100012334-WSJRC00004 Well Type: MONITORING Source: Agricultural Lands Other Name: WSJRC00004

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=AGLAND&sa

mp_date=&global_id=AGC100012334&assigned_name=WSJRC00004&store_num=

GeoTracker Data: Not Reported

52 ENE FED USGS USGS40000178753

1/2 - 1 Mile Lower

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center Monitor Location: 012S014E28J002M Well Type: HUC: 18040001 Description: 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: 19540401 Well Depth: 144

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

153

1/2 - 1 Mile Lower

Seq: 11064 Prim sta c: 12S/14E-28E04 M

 Frds no:
 1010005006
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 06 - DESTROYED Station ty: WELL/AMBNT/MUN/INTAKE

 Latitude:
 365138.0
 Longitude:
 1202710.0

 Precision:
 2
 Status:
 DS

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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City: FIREBAUGH State: Not Reported Zip: 93622 Zip ext: Not Reported

Pop serv: 4970 Connection: 997

Area serve: FIREBAUGH

54 NW FED USGS USGS40000178787

1/2 - 1 Mile Higher

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location:012S014E29H001MType:WellDescription:Not ReportedHUC:18040001Drainage Area:Not ReportedDrainage Area Units:Not ReportedContrib Drainage Area:Not ReportedContrib Drainage Area Units:Not Reported

Aquifer: Central Valley aquifer system

CA WELLS

11064

Formation Type: Not Reported Aquifer Type: Not Reported

Construction Date: 19401201 Well Depth: 192

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

J55 NW CA WELLS CADDW2000015574

1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_009_009
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-009

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=CA1010005_009_009&store_num=

GeoTracker Data: Not Reported

K56
ENE FED USGS USGS40000178727

1/2 - 1 Mile Lower

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E27M001M Type: Well Description: Not Reported HUC: 18040001 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: 19510601 Well Depth: 120
Well Depth Units: ft Well Hole Depth: 160

Well Hole Depth Units: ft

K57
ENE CA WELLS CAUSGSN00018177

1/2 - 1 Mile Lower

Well ID: USGS-365123120260301 Well Type: UNK

Source: United States Geological Survey

Other Name: USGS-365123120260301 GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&s

amp_date=&global_id=&assigned_name=USGS-365123120260301&store_num=

GeoTracker Data: Not Reported

58
WNW FRDS PWS CA2000837

1/2 - 1 Mile Higher

Epa region: 09 State: CA

Pwsid: CA2000837 Pwsname: N.L.F. NEW COL. RANCH 901 907

Cityserved:Not ReportedStateserved:CAZipserved:Not ReportedFipscounty:06019Status:ClosedRetpopsrvd:35

Pwssvcconn: 10 Psource longname: Groundwater Pwstype: CWS Owner: Private

Contact: N.L.F. NEW COL. RANCH 901 907

Contactorgname: Not Reported Contactphone: Not Reported Contactaddress1: Not Reported Contactaddress2: Not Reported

Contactcity: VALENCIA Contactstate: CA
Contactzip: 91355 Pwsactivitycode: I

PWS ID: CA2000837 PWS name: N.L.F. NEW COL. RANCH 901 907

Address: Not Reported Care of: Not Reported

City: VALENCIA State: CA

Zip: 91355 Owner: N.L.F. NEW COL. RANCH 901 907

Source code: Ground water Population: 35

PWS ID: CA2000837 PWS type: System Owner/Responsible Party

PWS name: NLF CO., A CA LTD. PARTNERSHIP

PWS address:Not ReportedPWS city:VALENCIAPWS state:CAPWS zip:91355PWS ID:CA2000837Activity status:Active

Date system activated: Not Reported Date system deactivated: Not Reported

Retail population: 00000035 System name: N.L.F. NEW COL. RANCH 901 907

System address: NLF CO., A CA LTD. PARTNERSHIP

System address: 10302 AVENUE 7-1/2 System city: FIREBAUGH System state: CA System zip: 93622

Population served: Under 101 Persons Treatment: Untreated

Latitude: 365132 Longitude: 1202718

Violation id: 95V0001 Orig code: F

State: CA Violation Year: 1993

Contamination code: 5000 Contamination Name: Lead and Copper Rule
Violation code: 51 Violation name: Initial Tap Sampling for Pb and Cu

Rule code: 350 Rule name: LCR

Violation measur:0Unit of measure:Not ReportedState mcl:0Cmp bdt:07/01/1993

Cmp edt: 02/01/2003

K59
ENE CA WELLS 11065
1/2 - 1 Mile

Lower

Seq: 11065 Prim sta c: 12S/14E-28J01 M

 Frds no:
 2000512001
 County:
 20

 District:
 50
 User id:
 20C

 System no:
 2000512
 Water type:
 G

Source nam: WELL 01 Station ty: WELL/AMBNT/MUN/INTAKE

 Latitude:
 365123.0
 Longitude:
 1202600.0

 Precision:
 2
 Status:
 AR

Comment 1: 6111 BRENDA RD FIREBAUGH 93622 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: 2000512 System nam: East Acres Water Assoc

Hqname:Not ReportedAddress:Not ReportedCity:Not ReportedState:Not Reported

Zip: Pop serv: Area serve:	Not Reported 0 Not Reported	Zip ext: Connection:	Not Reported 0
Sample date: Chemical: Dlr:	29-JUN-15 MANGANESE 20.	Finding: Report units:	57. UG/L
Sample date: Chemical: Dlr:	29-JUN-15 IRON 100.	Finding: Report units:	1300. UG/L
Sample date: Chemical: Dlr:	05-MAR-15 ARSENIC 2.	Finding: Report units:	20. UG/L
Sample date: Chemical: DIr:	05-MAR-15 IRON 100.	Finding: Report units:	860. UG/L
Sample date: Chemical: Dlr:	05-MAR-15 MANGANESE 20.	Finding: Report units:	52. UG/L
Sample date: Chemical: Dlr:	09-DEC-14 SULFATE 0.5	Finding: Report units:	39. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 CHLORIDE 0.	Finding: Report units:	53. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 SODIUM 0.	Finding: Report units:	110. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 MAGNESIUM 0.	Finding: Report units:	1.2 MG/L
Sample date: Chemical: Dlr:	09-DEC-14 CALCIUM 0.	Finding: Report units:	3.8 MG/L
Sample date: Chemical: Dlr:	09-DEC-14 HARDNESS (TOTAL) AS CACO3 0.	Finding: Report units:	14. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 BICARBONATE ALKALINITY 0.	Finding: Report units:	140. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 ALKALINITY (TOTAL) AS CACO3 0.	Finding: Report units:	120. MG/L
Sample date: Chemical: Dlr:	09-DEC-14 PH, LABORATORY 0.	Finding: Report units:	8.2 Not Reported
Sample date: Chemical:	09-DEC-14 SPECIFIC CONDUCTANCE	Finding: Report units:	540. US

Dlr: 0.

09-DEC-14 Sample date: Finding: 810. **IRON** Report units: Chemical: UG/L

DIr: 100.

Sample date: 09-DEC-14 Finding: 51. Chemical: MANGANESE Report units: UG/L

DIr: 20.

09-DEC-14 330. Sample date: Finding: MG/L

Chemical: TOTAL DISSOLVED SOLIDS Report units:

DIr:

Sample date: 09-DEC-14 Finding: 0.18

TURBIDITY, LABORATORY Chemical: Report units: NTU DIr: 0.1

09-DEC-14 Sample date: Finding: 11.

AGGRSSIVE INDEX (CORROSIVITY) Chemical: Report units: Not Reported

DIr:

09-DEC-14 Sample date: Finding: 0.35

FLUORIDE (F) (NATURAL-SOURCE) Report units: Chemical: MG/L DIr:

03-SEP-14 76. Sample date: Finding: Chemical: MANGANESE Report units: UG/L

DIr: 20.

Sample date: 03-SEP-14 Finding: 430.

Chemical: **IRON** Report units: UG/L

DIr: 100.

Sample date: 17-JUN-14 Finding: 2000. Chemical: **IRON** Report units: UG/L

DIr: 100.

17-JUN-14 Sample date: Finding: 80. Chemical: MANGANESE Report units: UG/L

DIr: 20.

06-JUN-14 Sample date: Finding: 22. Report units: ARSENIC UG/L Chemical:

DIr: 2.

Sample date: 03-MAR-14 Finding: 1100. Chemical: **IRON** Report units: UG/L

DIr: 100.

Sample date: 03-MAR-14 Finding: 23. Chemical: ARSENIC Report units:

UG/L DIr: 2.

Sample date: 03-MAR-14 Finding: 36.

MANGANESE Chemical: Report units: UG/L DIr: 20.

Sample date: 09-SEP-13 Finding: 410.

IRON Report units: Chemical: UG/L 100. DIr:

Sample date: Chemical: Dlr:	09-SEP-13 MANGANESE 20.	Finding: Report units:	58. UG/L
Sample date: Chemical: Dlr:	11-JUN-13 IRON 100.	Finding: Report units:	1300. UG/L
Sample date: Chemical: Dlr:	11-JUN-13 MANGANESE 20.	Finding: Report units:	63. UG/L
Sample date: Chemical: Dlr:	11-APR-13 ARSENIC 2.	Finding: Report units:	26. UG/L
Sample date: Chemical: Dlr:	14-MAR-13 MANGANESE 20.	Finding: Report units:	43. UG/L
Sample date: Chemical: Dlr:	14-MAR-13 IRON 100.	Finding: Report units:	1000. UG/L
Sample date: Chemical: Dlr:	07-DEC-12 MANGANESE 20.	Finding: Report units:	56. UG/L
Sample date: Chemical: Dlr:	07-DEC-12 IRON 100.	Finding: Report units:	800. UG/L
Sample date: Chemical: Dlr:	10-OCT-12 MANGANESE 20.	Finding: Report units:	77. UG/L
Sample date: Chemical: Dlr:	10-OCT-12 IRON 100.	Finding: Report units:	690. UG/L
Sample date: Chemical: Dlr:	14-JUN-12 MANGANESE 20.	Finding: Report units:	82. UG/L
Sample date: Chemical: DIr:	14-JUN-12 IRON 100.	Finding: Report units:	640. UG/L
Sample date: Chemical: Dlr:	04-JUN-12 ARSENIC 2.	Finding: Report units:	24. UG/L
Sample date: Chemical: Dlr:	02-MAR-12 MANGANESE 20.	Finding: Report units:	62. UG/L
Sample date: Chemical: DIr:	02-MAR-12 IRON 100.	Finding: Report units:	750. UG/L

Map ID Direction Distance

Elevation Database EDR ID Number

60 SSW

1/2 - 1 Mile Higher

State Well #: 12S14E33E001M Station ID: 38026

Well Name:327Basin Name:Delta-MendotaWell Use:Not ReportedWell Type:UnknownWell Depth:0Well Completion Rpt #:Not Reported

L61
NW CA WELLS CADDW2000023794

1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_016_016
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-016

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=CA1010005_016_016&store_num=

GeoTracker Data: Not Reported

M62 NW CA WELLS CADPR0000004517

1/2 - 1 Mile Lower

Well ID: 89492 Well Type: UNK

Source: Department of Pesticide Regulation

Other Name: 89492 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=89492&store_num=

GeoTracker Data: Not Reported

L63 NW CA WELLS 11070 1/2 - 1 Mile

Lower

 Seq:
 11070
 Prim sta c:
 12S/14E-29H02 M

 Frds no:
 1010005007
 County:
 10

 Fras no:
 1010005007
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

 Source nam:
 WELL 07
 Station ty:
 WELL

Source nam: WELL 07 Station ty: WELL/AMBNT/MUN/INTAKE

 Latitude:
 365143.0
 Longitude:
 1202713.0

 Precision:
 2
 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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City:FIREBAUGHState:Not ReportedZip:93622Zip ext:Not Reported

Pop serv: 4970 Connection: 997

Area serve: FIREBAUGH

L64
NW CA WELLS CADDW2000013129

1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_008_008
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-008

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=CA1010005_008_008&store_num=

GeoTracker Data: Not Reported

N65 NNW CA WELLS CADDW2000011086

NNW 1/2 - 1 Mile Lower

GAMA:

 Well ID:
 CA1010005_003_003
 Well Type:
 MUNICIPAL

 Source:
 DDW
 Other Names:
 1010005-003

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=CA1010005_003_003&store_num=

GeoTracker Data: Not Reported

66 WSW CA WELLS CADWR9000031269

1/2 - 1 Mile Higher

 State Well #:
 12S14E29Q001M
 Station ID:
 24838

 Well Name:
 12S14E29Q001M
 Pagin Name:
 Pagin Name:

Well Name:160Basin Name:Delta-MendotaWell Use:Not ReportedWell Type:UnknownWell Depth:0Well Completion Rpt #:Not Reported

M67 NW CA WELLS CADWR000002632

1/2 - 1 Mile Lower

Well ID: 12S14E28E001M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28E001M 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=12S14E28E001M&store_num=

GeoTracker Data: Not Reported

Map ID Direction Distance

Elevation Database EDR ID Number

M68 NW

CA WELLS CADWR0000025767

1/2 - 1 Mile Lower

Well ID: 12S14E28E002M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28E002M 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=12S14E28E002M&store_num=

GeoTracker Data: Not Reported

M69 NW CA WELLS CADWR000001087

1/2 - 1 Mile Lower

Well ID: 12S14E28E003M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28E003M 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=12S14E28E003M&store_num=

GeoTracker Data: Not Reported

O70
NE CA WELLS CADWR9000031368

1/2 - 1 Mile Lower

 State Well #:
 12S14E27D001M
 Station ID:
 39878

Well Name:12S14E27D001MBasin Name:Delta-MendotaWell Use:UnknownWell Type:Single WellWell Depth:0Well Completion Rpt #:Not Reported

South 1/2 - 1 Mile Higher

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center

Monitor Location: 012S014E33K002M Type: Well 18040001 Description: Not Reported HUC: Drainage Area: Not Reported Not Reported Drainage Area Units: 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: 19780602 Well Depth: 179
Well Depth Units: ft Well Hole Depth: 185

Well Hole Depth Units: ft

FED USGS

USGS40000178503

Map ID Direction Distance

Database EDR ID Number Elevation

072 NE

CA WELLS CADWR0000021006

1/2 - 1 Mile Lower

> Well ID: 12S14E27D001M Well Type: UNK

Department of Water Resources Source:

12S14E27D001M GAMA PFAS Testing: Not Reported Other Name:

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_

date=&global_id=&assigned_name=12S14E27D001M&store_num=

GeoTracker Data: Not Reported

N73 **CA WELLS** NW 11061

1/2 - 1 Mile Lower

Lower

Source nam:

11061 Prim sta c: 12S/14E-28D01 M Seq: Frds no: 1010005003 County: 10

User id: AGE District: 11 Water type: System no: 1010005 G

Source nam: WELL 03A Station ty: WELL/AMBNT/MUN/INTAKE

Latitude: 365149.0 Longitude: 1202710.0 Precision: Status: AR

Comment 1: Not Reported Comment 2: Not Reported Comment 3: Not Reported Comment 4: Not Reported Not Reported Not Reported Comment 5: Comment 6:

Comment 7: Not Reported

City Of Firebaugh 1010005 System nam: System no:

Hgname: Not Reported Address: 1575 ELEVENTH STREET

City: **FIREBAUGH** State: Not Reported Zip: 93622 Zip ext: Not Reported

Pop serv: 4970 Connection: 997 Area serve: **FIREBAUGH**

N74 NW **CA WELLS** 11062 1/2 - 1 Mile

11062 Prim sta c: 12S/14E-28D02 M Seq: 1010005008 Frds no: County: 10

District: User id: AGE 11 System no: 1010005 Water type: G WELL/AMBNT/MUN/INTAKE

Station ty: 365149.0 Latitude: Longitude: 1202710.0

Precision: 2 Status: AR

Not Reported Comment 2: Comment 1: Not Reported Comment 3: Not Reported Comment 4: Not Reported Comment 5: Not Reported Comment 6: Not Reported

Comment 7: Not Reported

WELL 09

System no: 1010005 System nam: City Of Firebaugh

1575 ELEVENTH STREET Hqname: Not Reported Address:

FIREBAUGH Not Reported City: State: Zip: 93622 Zip ext: Not Reported

Pop serv: 4970 Connection: 997

Area serve: FIREBAUGH

P75 SSE FED USGS USGS40000178500

1/2 - 1 Mile Higher

Organization ID: USGS-CA

USGS California Water Science Center Organization Name: Monitor Location: 012S014E33K001M Well Type: Description: Not Reported HUC: 18040001 Drainage Area: Not Reported **Drainage Area Units:** Not Reported Contrib Drainage Area: Contrib Drainage Area Unts: Not Reported 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

076
NE CA WELLS CADWR9000031367

1/2 - 1 Mile Lower

State Well #: 12S14E27E001M Station ID: 14782

Well Name:Not ReportedBasin Name:Delta-MendotaWell Use:UnknownWell Type:UnknownWell Depth:0Well Completion Rpt #:Not Reported

77 NNE CA WELLS 11060

1/2 - 1 Mile Lower

Seq: 11060 Prim sta c: 12S/14E-28A01 M

 Frds no:
 1010005009
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 10 Station ty: WELL/AMBNT/MUN/INTAKE

 Latitude:
 365155.0
 Longitude:
 1202616.0

 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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City: FIREBAUGH State: Not Reported Zip: 93622 Zip ext: Not Reported

Pop serv: 4970 Connection: 997

Area serve: FIREBAUGH

Sample date: 02-OCT-12 Finding: 9100. Chemical: IRON Report units: UG/L

Dlr: 100.

02-OCT-12 Sample date: Finding: 21. Chemical: **ARSENIC** Report units: UG/L

DIr:

02-OCT-12 Sample date: Finding: 450. Chemical: **MANGANESE** Report units: UG/L

DIr: 20.

03-JUL-12 Sample date: Finding: 6000. **IRON** Chemical: Report units: UG/L

DIr: 100.

Sample date: 03-JUL-12 Finding: 250. Chemical: MANGANESE Report units: UG/L

DIr: 20.

Sample date: 10-APR-12 Finding: 500. **IRON** Report units: UG/L Chemical: DIr: 100.

Sample date: 10-APR-12 Finding: 6.3 Chemical: **ARSENIC** Report units: UG/L

DIr: 2.

10-APR-12 Finding: Sample date: 820. Chemical: MANGANESE Report units: UG/L

DIr: 20.

Sample date: 28-FEB-12 Finding: 600. Report units: UG/L

Chemical: **IRON** DIr: 100.

28-FEB-12 Sample date: Finding: 230. Report units: UG/L

Chemical: MANGANESE

DIr: 20.

Q78 NNW **CA WELLS** CADDW2000003577

1/2 - 1 Mile Lower

GAMA:

Well ID: CA1010005_001_001 Well Type: **MUNICIPAL** Source: DDW Other Names: 1010005-001

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=CA1010005_001_001&store_num=

GeoTracker Data: Not Reported

Q79 **CA WELLS** CADDW2000021969

NNW 1/2 - 1 Mile

Lower GAMA:

> Well ID: CA1010005_004_004 Well Type: MUNICIPAL DDW Other Names: 1010005-004 Source:

GAMA Pfas testing: Not Reported

 $Groundwater\ Quality\ Data: \\ https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS\&samp_index.pdf.$

date=&global_id=&assigned_name=CA1010005_004_004&store_num=

GeoTracker Data: Not Reported

Q80
NNW
CA WELLS 11063
1/2 - 1 Mile

Lower

Seq: 11063 Prim sta c: 12S/14E-28E03 M

 Frds no:
 1010005002
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 02 - DESTROYED Station ty: WELL/AMBNT/MUN/INTAKE/SUPPLY

Latitude: 365200.0 Longitude: 1202700.0 Precision: 8 Status: DS

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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City:FIREBAUGHState:Not ReportedZip:93622Zip ext:Not ReportedPop serv:4970Connection:997

Area serve: FIREBAUGH

Q81 NNW CA WELLS 11066

1/2 - 1 Mile Lower

Seq: 11066 Prim sta c: 12S/14E-28L04 M

 Frds no:
 1010005001
 County:
 10

 District:
 11
 User id:
 AGE

 System no:
 1010005
 Water type:
 G

Source nam: WELL 01 - DESTROYED Station ty: WELL/AMBNT/MUN/INTAKE/SUPPLY

 Latitude:
 365200.0
 Longitude:
 1202700.0

 Precision:
 8
 Status:
 DS

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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET

City:FIREBAUGHState:Not ReportedZip:93622Zip ext:Not ReportedPop serv:4970Connection:997

Pop serv: 4970 Connection: Area serve: FIREBAUGH

Q82 NNW CA WELLS 11069 1/2 - 1 Mile

Lower

Seq: 11069 Prim sta c: 12S/14E-29A02 M

Frds no: 1010005004 County: 10

District: 11 User id: AGE System no: 1010005 Water type: G

Source nam: WELL 04 - DESTROYED Station ty: WELL/AMBNT/MUN/INTAKE/SUPPLY

 Latitude:
 365200.0
 Longitude:
 1202700.0

 Precision:
 8
 Status:
 DS

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: 1010005 System nam: City Of Firebaugh

Hqname: Not Reported Address: 1575 ELEVENTH STREET City: State: Not Reported Not Reported

 Zip:
 93622
 Zip ext:
 Not Reported

 Pop serv:
 4970
 Connection:
 997

Pop serv: 4970 Connection: Area serve: FIREBAUGH

Q83
North
CA WELLS CADWR9000031436
1/2 - 1 Mile

Higher

 State Well #:
 12S14E21P001M
 Station ID:
 14777

 Well Name:
 12S14E21P001M
 Basin Name:
 Delta-Mendota

 Well Use:
 Unknown
 Well Type:
 Single Well

 Well Depth:
 0
 Well Completion Rpt #:
 Not Reported

84 NW FED USGS USGS40000178831 1/2 - 1 Mile

Organization ID: USGS-CA

Organization Name: USGS California Water Science Center Monitor Location: 012S014E29A001M Well Type: Description: Not Reported HUC: 18040001 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: 19570603 Well Depth: 198

Well Depth Units: ft Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

R85 NW CA WELLS CAEDF0000053125 1/2 - 1 Mile

Higher

 Well ID:
 T10000011142-MW-3
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-3

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-3&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-3

Map ID Direction Distance

Elevation Database EDR ID Number

R86 NW

CA WELLS CAEDF0000094135

CA WELLS

CA WELLS

CADWR0000001617

CAEDF0000067519

1/2 - 1 Mile Higher

Well ID: T10000011142-MW-4 Well Type: MONITORING

Source: EDF Other Name: MW-4

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-4&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-4

S87

NW 1/2 - 1 Mile Lower

Well ID: 12S14E28D001M Well Type: UNK

Source: Department of Water Resources

Other Name: 12S14E28D001M 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=12S14E28D001M&store_num=

GeoTracker Data: Not Reported

D00

R88 NW 1/2 - 1 Mile Higher

Well ID: T10000011142-MW-5 Well Type: MONITORING

Source: EDF Other Name: MW-5

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-5&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-5

R89
WNW CA WELLS CAEDF0000100731

1/2 - 1 Mile Higher

 Well ID:
 T10000011142-MW-6
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-6

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-6&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-6

Map ID Direction Distance

Elevation Database EDR ID Number

Q90 NNW

1/2 - 1 Mile Lower

State Well #: Not Reported Station ID: 53464

Well Name:3199 (Well 1199)Basin Name:Delta-MendotaWell Use:IrrigationWell Type:Single WellWell Depth:0Well Completion Rpt #:Not Reported

R91
WNW
CA WELLS CAEDF0000041930
1/2 - 1 Mile

Higher

 Well ID:
 T10000011142-MW-2
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-2

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-2&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-2

R92 NW CA WELLS CAEDF0000113106

1/2 - 1 Mile Higher

Well ID: T10000011142-MW-1 Well Type: MONITORING

Source: EDF Other Name: MW-1

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-1&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-1

R93 NW CA WELLS CAEDF0000037201

1/2 - 1 Mile Higher

 Well ID:
 T10000011142-MW-7
 Well Type:
 MONITORING

 Source:
 EDF
 Other Name:
 MW-7

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-7&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-7

Map ID Direction Distance

Elevation Database EDR ID Number

R94 NW

CA WELLS CAEDF0000110568

1/2 - 1 Mile Higher

Well ID: T10000011142-MW-8 Well Type: MONITORING

Source: EDF Other Name: MW-8

GAMA PFAS Testing: Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_

date=&global_id=T10000011142&assigned_name=MW-8&store_num=

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000011142&ass

igned_name=MW-8

S95 NW 1/2 - 1 Mile

CA WELLS CADWR9000031410

Lower

State Well #: 12S14E20R001M Station ID: 14775

Well Name:CCID 41Basin Name:Delta-MendotaWell Use:IrrigationWell Type:Single WellWell Depth:236Well Completion Rpt #:22296

Map ID Direction Distance

istance Database EDR ID Number

1 West OIL_GAS CAOG17000003529 1/2 - 1 Mile

OIL_GAS:

API #: 0401905982 Well #: 1

Well Type: Dry Hole Well Status: Plugged Lease Name: Dell Well Design: Dell 1

Operator ID: 03995 Operator Name: Highland Oil Corp.

Field Name: Any Field Area Name: Any Area Place: Fresno County GIS Source: hud Confidential Well: N Directionally Drilled: N

Spud Date: 05/05/1954
Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=01905982

2 North OIL_GAS CAOG17000008917 1/2 - 1 Mile

OIL_GAS:

API#: 0403900141 Well #: 1

Well Type: Dry Hole Well Status: Plugged Lease Name: Well Design: Henry Yip 1

Operator ID: 05792 Operator Name: McCulloch Oil & Gas Corp.

Field Name: Any Field Area Name: Any Area Place: Madera County GIS Source: hud Confidential Well: N Directionally Drilled: N

Spud Date: 09/07/1966

Well Record Request URL: https://filerequest.conservation.ca.gov/WellRecord?api=03900141

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L		
93622	2	0		

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 FRESNO COUNTY, CA

Number of sites tested: 100

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor Living Area - 2nd Floor	1.251 pCi/L Not Reported	98% Not Reported	2% Not Reported	0% Not Reported
Basement	1.433 pCi/L	100%	0%	0%

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, 2010 and 2015 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 Californias 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 Heath 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.

Geothermal Wells Listing

Department of Conservation Telephone: 916-445-9686

Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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

Regulatory Documentation



July 22, 1998

File No.: 21-3432-01

RECEIVED

JUL 2 7 1998

Environmental mealth System

Mr. Floyd Wilson Firebaugh-Las Deltas Unified School District MOT Department 1976 Morris Kyle Drive Firebaugh, California 93622

SUBJECT: Report for Tank Abandonment Assessment

Firebaugh Junior High School - Bus Barn

1657 Saipan Street Firebaugh, California APN 008-020-63T

Dear Mr. Wilson:

As per your request, Kleinfelder performed environmental services to assess if there is subsurface contamination in the area occupied by three underground storage tanks (USTs) at the referenced Firebaugh Junior High School bus barn facility (Plate 1 in Appendix A). The following letter report describes our exploration, findings, conclusions, and recommendations for the site.

OBJECTIVE

It is our understanding that the school District intends to abandon the tanks in place. In pursuit of this goal, the Fresno County Environmental Health Department (FCEHD) indicated subsurface soil data would be needed in order to evaluate this objective, in accordance with their guidelines. The District has already removed residual product and had the tanks cleaned. Kleinfelder was retained to assess the site for the presence of hydrocarbon impacted soil from three USTs located at the bus barn facility. The three USTs were identified in our FCEHD approved Work Plan, dated April 29, 1998. Plate 2 in Appendix A indicates the approximate location of the three USTs. The bottom of the USTs are approximately six feet below the ground surface.

FIELD ACTIVITIES

Kleinfelder and its drilling subcontractor (Spectrum Exploration) permitted then drilled four exploratory soil borings (locations on Plate 2) to depths of approximately 8 feet around the three USTs, approximately two feet below the bottom of the tanks. The boring locations were selected by a Kleinfelder staff engineer. These borings were drilled with hollow stem auger methods as specified in our approved Work Plan. Due to the uncertainty of the orientation of the tanks, the initial 3 feet of exploration were done with a hand auger. Two hand auger borings were also

advanced from beneath the dispenser island. These two borings were hand augered to a depth of approximately 3 feet then sampled. Groundwater in the vicinity of the site is on the order of 10 to 20 feet below grade. Drill cuttings and equipment rinse water are being stored on-site in drums for proper disposal by the District. A Kleinfelder field engineer, under the direction of a California registered geologist, supervised the drilling, soil sampling and logging of all samples. Soil samples were collected from the bottom of each of the 6 borings.

The six soil samples were collected and handled according to Kleinfelder's Protocols presented in Appendix B. The samples were analyzed at BSK Analytical Laboratories. BSK is certified by the California Department of Health Services to perform these analysis. Laboratory results are presented in the following table. Copies of the Chain-of-Custody form and analytical data sheets are included in Appendix C.

Sample No.	30585	30586	30589	30590	30591	30592
Boring No.	B-1	B-2	B-3	B-4	B-5	B-6
Depth (feet)	8	8	8	8	3	3
Benzene (mg/kg)	ND	ND	0.26	ND	ND	ND
Ethyl benzene (mg/kg)	ND	ND	0.21	ND	ND	ND
Toluene (mg/kg)	ND	ND	ND	ND	0.012	ND
Xylenes (mg/kg)	ND	ND	ND	ND	0.018	ND
Gasoline (mg/kg)	ND	ND	74	ND	6.8	ND
Methyl-tert-Butyl Ether (mg/kg)	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons as Diesel (mg/kg)	ND	9.7	82	ND	270	26
Lead (mg/kg)	8.9	6.1	8.3	8.3	13	14
Volatile Halocarbons (mg/kg)	NA	NA	NA	ND	NA	NA

mg/kg = milligrams/kilograms

ND = Not Detected

NA = Not Analyzed

CONCLUSION AND RECOMMENDATIONS

Laboratory test results did not indicate significant concentrations of the analytes near the three USTs or pump island. Low concentrations are likely due to past over-spillage. The regional water table in this area is reportedly 10 to 20 feet below the ground surface, as reported by the District. It is unlikely that the impacted soil would have a significant impact on the water table. Kleinfelder concludes from this data that the site should be eligible for in place abandonment. We therefore recommend the District submit this report to the FCEHD and request approval to proceed toward permitting abandonment in place.

LIMITATIONS

The findings presented in this report were based solely upon a limited number of sampling locations and laboratory data. No warranty, expressed or implied, is made.



We trust this information meets your current needs. Kleinfelder appreciates the opportunity of providing environmental services to you for this project and we look forward to working with you in the future. Should you have any questions, please feel free to call our office at (209) 486-0750.

Respectfully submitted,

KLEINFELDER, INC.

Emad Abi-Rached, E.I.T.

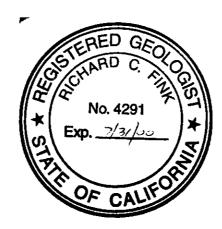
Staff Engineer

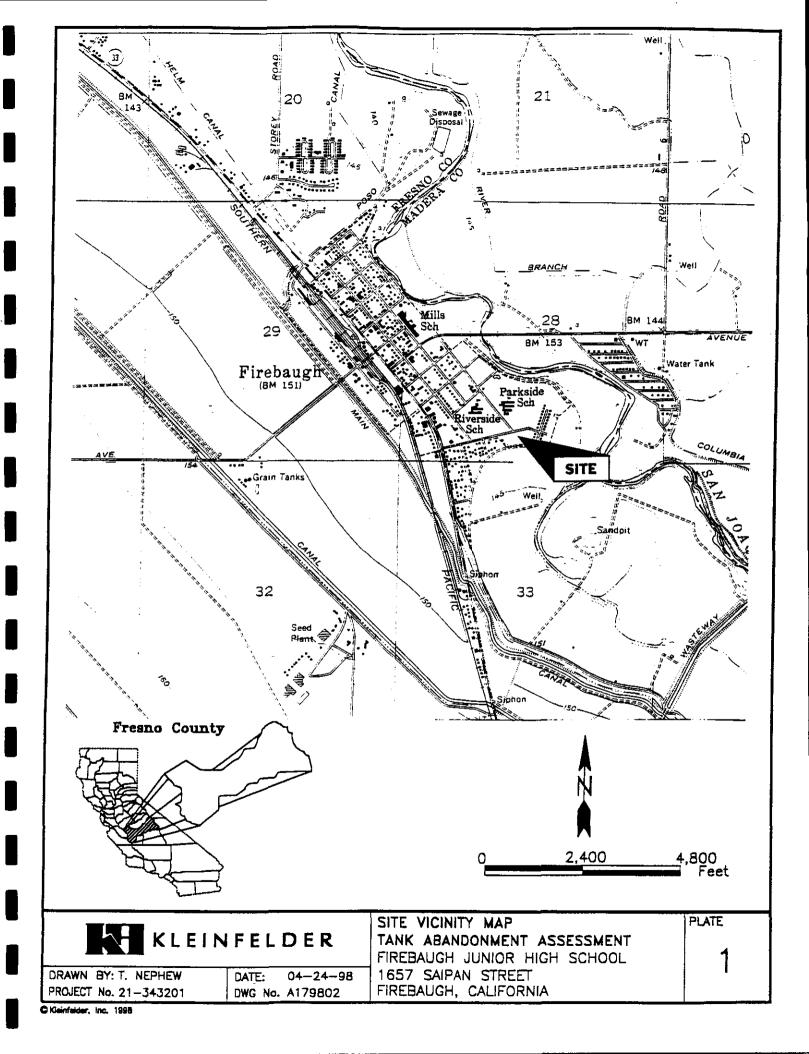
Elkoched

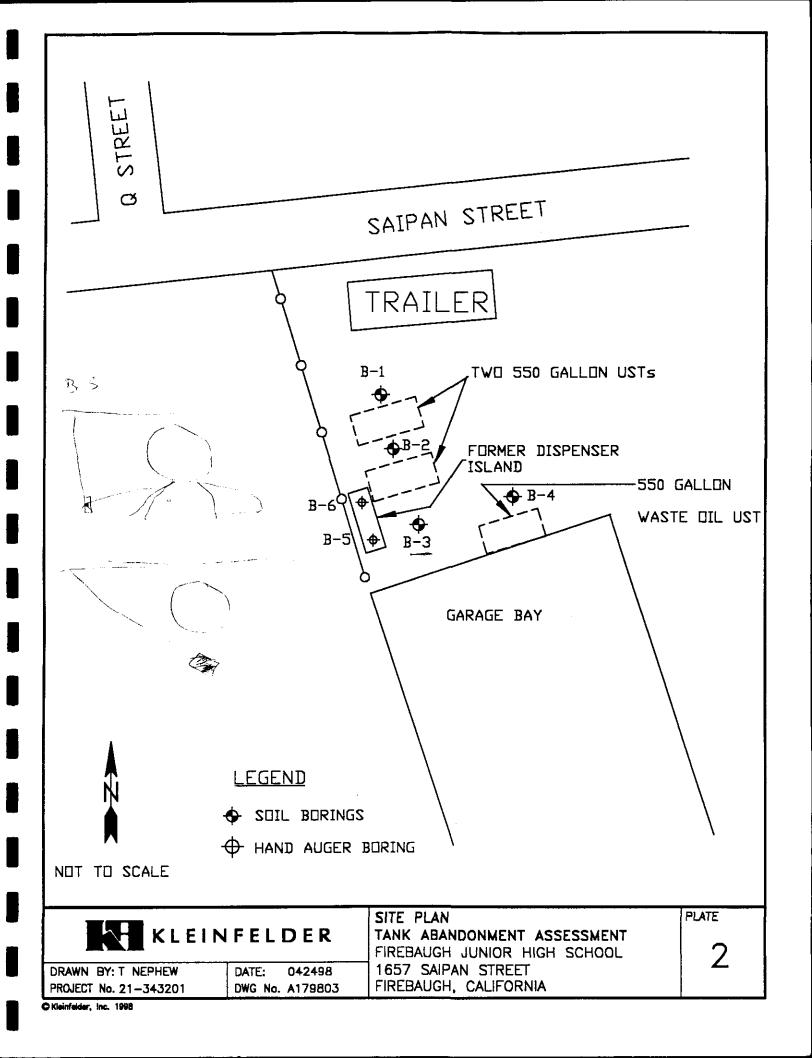
Richard C. Fink, R.G., C.E.G.

Senior Geologist

EA:RCF:kd









PROTOCOL A DRILLING AND SOIL SAMPLING PROCEDURES

1 INTRODUCTION

This protocol presents the procedures used by Kleinfelder to obtain consistent, reliable data during the drilling, sampling, and sealing of boreholes. The procedures described herein are intended to be of general use. As work progresses, appropriate revisions may be made at the discretion of the project manager.

2 PROCEDURES FOR DRILLING AND SOIL SAMPLING

2.1 Permitting

Kleinfelder will prepare a work plan and applications for appropriate permits through Fresno County, unless otherwise instructed by the client. Copies of signed permits will be on-site during drilling operations, and will be available for inspection by appropriate agencies.

2.2 Equipment Cleaning

Drilling equipment will be thoroughly steam-cleaned prior to arriving on-site to prevent the introduction of contamination from off-site. Clean equipment will be stored in a clean location when not in use. Hydrocarbon based lubricants will not be used on drilling equipment. Kleinfelder recommends that food grade-solid, vegetable shortening, or a TeflonTM based lubricant be used. Equipment will be steam-cleaned on-site, and will be cleaned only in designated areas, prior to reuse.

2.3 Sampler Cleaning

Soil samplers will be disassembled, washed with a solution containing TSP or non-phosphate detergent, or steamcleaned, rinsed with steam distilled water, and air-dried immediately prior to use. Samples will be lined with similarly cleaned and dried brass tubes, and reassembled for use.



2.4 Drilling

The drilling method used will be determined based upon the material to be drilled, depth and diameter of the boring, sampling requirements, site access, and other site-specific conditions. A drilling method which frequently will be used is the hollow-stem auger method, which employs the use of a 6-inch hollow-stem auger advanced by a truck mounted drill rig.

The subsurface stratigraphy will be interpreted by observing the materials recovered during drilling, and by sampling undisturbed soils. Soils will generally be sampled at a minimum of once per each 5 feet drilled, or at noticeable changes in lithology, until groundwater is encountered. Sampling intervals may vary depending upon project requirements. Soils will be sampled using a California-modified sampler containing cleaned brass liners, or a standard penetration sampler. Lithologic logging of the boring is discussed in Section 2.5, and sampling is discussed further in Section 3.1.

Boring depths will be based upon the nature and extent of the materials encountered, and upon project requirements.

2.5 Preparation of Boring Logs

The Kleinfelder field geologist will lithologically log the borings during drilling. The geologist and the drilling operator will discuss changes in material penetrated by the drill, changes in drilling conditions, hydraulic pressure, drilling action, and drilling fluid circulation rate, and the geologist will record such changes by time and depth. The geologist will evaluate the relative moisture content of the samples and note zones that produce water.

2.6 Sealing of Boring

Boreholes will be abandoned by backfilling to the surface with a bentonite cement grout.



3 SOIL SAMPLING

3.1 Sampling Interval in Borings

Soil samples will be taken at 5-foot intervals, or as necessary, based upon project-specific requirements. Soils will be sampled by driving a California-modified sampler 18 inches beyond the bottom of the drill bit. The sampler will be driven using a 140-pound slide hammer. The number of blows necessary to drive the sampler each 6 inches will be recorded to help evaluate soil consistency.

The sampler will contain three brass liners. Soils collected in the bottom liner may be labeled, sealed, and preserved in an ice-cooled container for potential laboratory analyses. Selected soil samples may be delivered under a chain-of-custody record to a State-certified laboratory for chemical analyses. Soils which are collected in the upper and middle liners from the sampler may be extruded in the field, and examined by Kleinfelder's geologist to help provide detailed lithologic information.

3.2 Qualitative Field Screening

An organic vapor analyzer, using a flame ionization detector will be used to provide a qualitative screening of each soil sample collected during drilling. The field screening procedure consists of sealing a soil sample in a clean glass jars or plastic zip lock type bags, allowing the sample to equilibrate for 5 to 15 minutes, and scanning the headspace in the jar for vapors. The screening readings will be noted on the boring log and/or on the daily field log.

3.4 Sample Preservation

The sample(s) selected for chemical or physical testing will be sealed in the brass liner in the field. TeflonTM sheeting covers will be placed on the ends of the liner directly on the exposed soils, and held in place by clean plastic caps. Sealed soil samples will be labeled and placed in a covered ice-cooled container.



4 SAMPLE HANDLING

Sample containers will not be opened, except by laboratory personnel who will perform the chemical analyses. Soil samples will be analyzed by a laboratory certified by the State of California, Department of Health Services. Requests for sample analyses will be made in writing and will be included as part of the chain-of-custody record.

4.1 Custody Seal

If it is necessary for samples or sample chests to leave the immediate control of the sampler prior to being delivered to the laboratory, a custody seal will be placed on each sample container and/or sample chest to discourage tampering during transportation. The custody seal will contain the sampler's signature, and the date and time seal was emplaced.

4.2 Chain of Custody Procedures

In order to document and trace sample possession from time of collection to time of analysis, a chain-of-custody record will be filled out by the sampler, and will accompany the sample through the laboratory analyses. The completed chain-of-custody record will accompany the final laboratory analytical report.

Information contained on the duplicate, carbonless chain-of-custody form will include:

- o date and time the sample was taken;
- o sample number and the number of sample containers;
- o analyses required;
- o remarks, including preservatives added and any special conditions; and
- container number in which sample has been packaged.

Blank space on the chain-of-custody record between last sample number listed and signatures at the bottom of the sheet will be lined out.

BSK LABORATORIES

CERTIFICATE OF ANALYSIS Cover Letter

July 3, 1998

Emad Abi-Rachel Kleinfelder 1410 F Street Fresno, CA 93706-1608

BSK Submission Number

: 9806000596

Date Received

: 06/19/98

Dear Emad Abi-Rachel,

BSK adheres to a quality assurance plan that has been approved by the State of California, Department of Health Services. Our ELAP certificate number is 1180.

This Certificate of Analysis has been prepared in response to your request for analytical services. Information was taken from your Chain-of-Custody or related correspondence. All sample handling and analytical procedures were completed within BSK Laboratories' standard acceptability criteria with any exceptions noted below.

If additional clarification of information contained within this certificate is needed, please contact our Client Service Department at 1-800-877-8310 or 209-497-2888.

Sincerely,

BSK Laboratories

Authorizing Signature(s)

/Juliane Adams

Organic Laboratory Supervisor

D 11 34 1

Bradley Meadows Inorganic Laboratory Supervisor Cynthia Pigman QA/QC Supervisor

A N A L Y T I C A L LABORATORIES

Certificate of Analysis

Emad Abi-Rachel

lleinfelder

10 F Street

Fresno, CA 93706-1608

bmission Number

b Number

mple Description

Project Desc.

Project Number

: 65672

21-3432-01 : Firebaugh Bus Barn 30585 BI @ 8'

: 9806000596

Report Issue Date: 07/03/98

Sample Date : 06/18/98

Sample Time: 11:03

Sample Type: SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
PA 8015 / PA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / PA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
A 8015 / A 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
A 8015 / A 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 15/DHS JFT	Total Petroleum Hydrocarbons as Diesel	06/24/98	06/25/98	ND	mg/Kg	2	1	2

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb

Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb PQL: Practical Quantitation Limit

Dil : Dilution Factor DLR :

Reportable Detection Limit derived by (PQL x Dil)

Conversions:

1 ppm = 1000 ppb 1 ppb = 0.001 ppm

Certificate of Analysis

Emad Abi-Rachel

Kleinfelder

410 F Street

Fresno, CA 93706-1608

lubmission Number

ab Number

Project Number

Project Desc. ample Description : 9806000596

: 65673 : 21-3432-01 : Firebaugh Bus : 30586 B2 @ 8' Firebaugh Bus Barn

Report Issue Date: 07/03/98

Sample Date : 06/18/98

Sample Time :

12:10

Sample Type:

SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
EPA 8015 / PA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / PA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
EPA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA D15/DHS UFT	Total Petroleum Hydrocarbons as Diesel	06/24/98	06/25/98	9.7	mg/Kg	2	1	2

Lighter boiling-point hydrocarbons decreased relative to standard.

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram - ppb PQL:

DLR:

Practical Quantitation Limit Dilution Factor

Dil :

Reportable Detection Limit

1 ppm ≈ 1000 ppb 1 ppb = 0.001 ppm

Conversions:

derived by (PQL x Dil)

Certificate of Analysis

Emad Abi-Rachel

lleinfelder

410 F Street

Fresno, CA 93706-1608

ıbmission Number

ab Number

Project Number

Project Desc. imple Description

21-3432-01 Firebaugh Bus Barn : 30589 B3 @ 8'

: 9806000596

Individual peaks inconsistent with fuel "fingerprint".

65674

Report Issue Date: 07/03/98

Sample Date:

06/18/98

Sample Time :

12:40

Sample Type:

SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
PA 8015 / PA 8020	Benzene	06/29/98	06/29/98	0.26	mg/Kg	0.005	25	0.125
EPA 8015 / PA 8020	Ethylbenzene	06/29/98	06/29/98	0.21	mg/Kg	0.005	25	0.125
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	25	0.125
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	25	0.125
PA 8015 / PA 8020	Gasoline Lighter boiling-point	06/29/98 hydrocarbons d	06/29/98 ecreased relative	74 to standard.	mg/Kg	1	25	25
PA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	25	1.25
EPA 15/DHS JFT	Total Petroleum Hydrocarbons as Diesel	07/02/98	07/02/98	82	mg/Kg	2	1	2

None Detected

Milligrams/Liter = ppm

Micrograms/Liter = ppb Milligrams/Kilogram = ppm

Micrograms/Kilogram = ppb

Practical Quantitation Limit PQL: Dil : DLR :

Dilution Factor

Reportable Detection Limit

Conversions:

1 ppm = 1000 ppb1 ppb = 0.001 ppm

derived by (PQL x Dil) Higher limits may result from exceptional sample matrices or interferences

BSK A N A L Y T I C A L L A BORATORIES

Certificate of Analysis

Emad Abi-Rachel

Kleinfelder 1410 F Street

Fresno, CA 93706-1608

Report Issue Date: 07/03/98

Sample Type:

Submission Number Lab Number

: 9806000596 : 65675

Sample Date : 06/18/98 Sample Time: 12:55

SOLID

Project Number

21-3432-01

Project Desc. : Firebaugh Bus Barn Sample Description : 30590 B4 @ 8'

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
SM 5520F	Hydrocarbon Oil & Grease	06/29/98	06/29/98	ND	mg/Kg	20	1	20
EPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
EPA 8015 / EPA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 8015/DHS LUFT	Total Petroleum Hydrocarbons as Diesel	07/02/98 -	07/02/98	ND	mg/Kg	2	1	2

ND

None Detected

PQL :

Practical Quantitation Limit

Conversions:

mg/L μg/L

Milligrams/Liter = ppm Micrograms/Liter - ppb Dil : Dilution Factor DLR:

1 ppm = 1000 ppb1 ppb = 0.001 ppm

mg/kg

Milligrams/Kilogram - ppm

Reportable Detection Limit derived by (PQL x Dil)

Micrograms/Kilogram = ppb μg/kg

Certificate of Analysis

Emad Abi-Rachel Kleinfelder

1410 F Street

Fresno, CA 93706-1608

Submission Number ab Number

Project Number

Project Desc. ample Description : 9806000596

65676 : 21-3432-01 : Firebaugh Bus Barn

: 30591 B5 @ 3'

Report Issue Date: 07/03/98

Sample Date :

06/18/98

Sample Time ; 13:45 Sample Type: SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
EPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	0.012	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	0.018	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline Lighter boiling-point	06/29/98 hydrocarbons d	06/29/98 ecreased relative	6.8 to standard.	mg/Kg	1	1	1
FPA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 015/DHS UFT	Total Petroleum Hydrocarbons as Diesel	07/02/98	07/02/98	270	mg/Kg	2	1	2

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb

PQL: Dil : DLR :

Practical Quantitation Limit Dilution Factor

Reportable Detection Limit derived by (PQL x Dil)

Conversions: 1 ppm = 1000 ppb

1 ppb = 0.001 ppm

Certificate of Analysis

Emad Abi-Rachel Kleinfelder

410 F Street

Fresno, CA 93706-1608

ubmission Number

ab Number

Project Number Project Desc.

ample Description

9806000596

65677 21-3432-01

: Firebaugh Bus Barn : 30592 B6 @ 3'

Report Issue Date: 07/03/98

Sample Date :

06/18/98

Sample Time :

14:15

Sample Type: SOLID

BSK LABORATORIES LUFT ANALYSIS

	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
EPA 8015 / PA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / PA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
EPA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 2015/DHS UFT	Total Petroleum Hydrocarbons as Diesel	07/02/98	07/02/98	26	mg/Kg	2	1	2

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb

PQL: Dil :

DLR:

Practical Quantitation Limit

Dilution Factor

Reportable Detection Limit

Conversions:

1 ppm = 1000 ppb1 ppb = 0.001 ppm

derived by (PQL x Dil)

Certificate of Analysis

Emad Abi-Rachel

Kleinfelder

410 F Street

Fresno, CA 93706-1608

lbmission Number

Lab Number roject Number

roject Desc.

imple Description

: 65675 : 21-3432-01

: Firebaugh Bus Barn : 30590 B4 @ 8'

: 9806000596

Preparation Date: 06/25/98 Analysis Date: 06/26/98

Report Issue Date: 07/03/98

Sample Date: 06/18/98

Sample Time: 12:55 Sample Type: SOLID

8010, Volatile Halocarbons, Solid

Analyte	Result	Units	PQL	Dil	DLR	
romodichloromethane	ND	mg/Kg	.01	1	0.01	
romomethane	ND	mg/Kg	.04	1	0.04	
Bromoform	ND	mg/Kg	.01	1	0.01	
Carbon tetrachloride	ND	mg/Kg	.01	1	0.01	
M hlorobenzene	ND	mg/Kg	.01	1	0.01	
hloroethane	ND	mg/Kg	.01	1	0.01	
Chloromethane	ND	mg/Kg	.01	1	0.01	
Chloroform	ND	mg/Kg	.01	1	0.01	
ibromochloromethane	ND	mg/Kg	.01	1	0.01	
1-Dichloroethane	ND	mg/Kg	.01	1	0.01	
1,1-Dichloroethene	ND	mg/Kg	.01	1	0.01	
1,2-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
2-Dichloroethane	ND	mg/Kg	.01	1	0.01	
2-Dichloropropane	ND	mg/Kg	.01	1	0.01	
1,3-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
1,4-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
E chlorodifluoromethane	ND	mg/Kg	.04	1	0.04	
-1,3-Dichloropropene	ND	mg/Kg	.01	1	0.01	
trans-1,2-Dichloroethene	ND	mg/Kg	.01	1	0.01	
trans-1,3-Dichloropropene	ND	mg/Kg	.01	1	0.01	
Bethylene chloride	ND	mg/Kg	.04	1	0.04	
1,2,2-Tetrachloroethane	ND	mg/Kg	.01	1	0.01	
Tetrachloroethene (PCE)	ND	mg/Kg	.01	ī	0.01	
1,1,1-Trichloroethane (1,1,1-TCA)	ND	mg/Kg	.01	1	0.01	
,2-Trichloroethane (1,1,2-TCA)	ND	mg/Kg	.01	1	0.01	
ichloroethene (TCE)	ND	mg/Kg	.01	1	0.01	
Trichlorofluoromethane (Freon 11)	ND	mg/Kg	.01	ī	0.01	
Vinyl Chloride	ND	mg/Kg	.02	1	0.02	
-1,2-Dichloroethene	ND	mg/Kg	.01	1	0.01	

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb

Practical Quantitation Limit PQL:

Dil : DLR : Dilution Factor Reportable Detection Limit Conversions: 1 ppm = 1000 ppb

1 ppb = 0.001 ppm

derived by (PQL x Dil) Higher limits may result from exceptional sample matrices or interferences

Certificate of Analysis

06/19/98 Date Received

9800009086 86/60//0 Date Reported

Submission Number Project ID

21-3432-01 Firebaugh Bus Barn Project Desc

METHOD EPA 6010

Lead, by ICP, Solid

Fresno, CA 93706-1608

1410 F Street Kleinfelder

Emad Abi-Rachel

Ö PQL Units Result Analyte Date Anal. Date Prep. Time Sampled 06/18/98 06/13/98 06/18/98 06/18/98 06/18/98 Date Sampled 30585 B1 @ 8' 30586 B2 @ 8' 30589 B3 @ 8' 30590 B4 @ 8' 30591 B5 @ 3' 30592 B6 @ 3' Sample Description Number Lab

Lead (Pb) Lead (Pb) Lead (Pb) Lead (Pb) Lead (Pb) 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98 06/30/98

11:03 12:10 12:40 12:55 13:45 14:15

65672 65673 65674

65675 65676 65677

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8.3 8.3 13 44

DLR

1 ppm = 1000 ppb 1 ppb = 0.001 ppm Conversions: Dilution Factor Reportable Detection Limit derived by (PQL x Dil) Higher limits may be the result of exceptional sample matrices or interferences

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb None Detected mg/L $\mu g/L$ mg/kg $\mu g/kg$

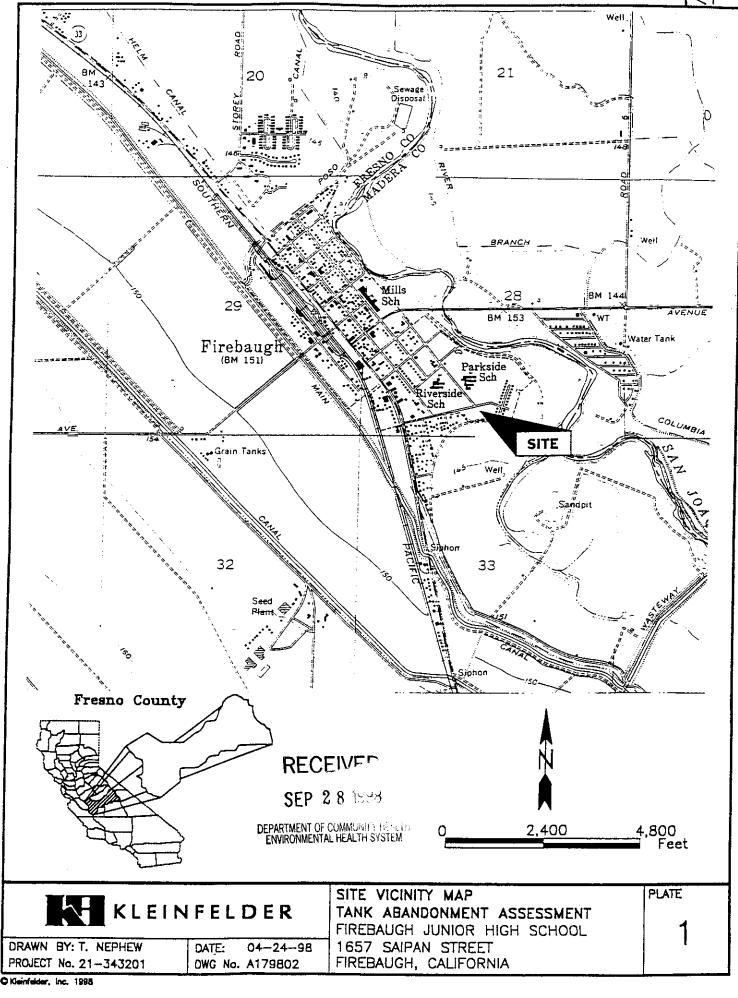
Practical Quantitation Limit

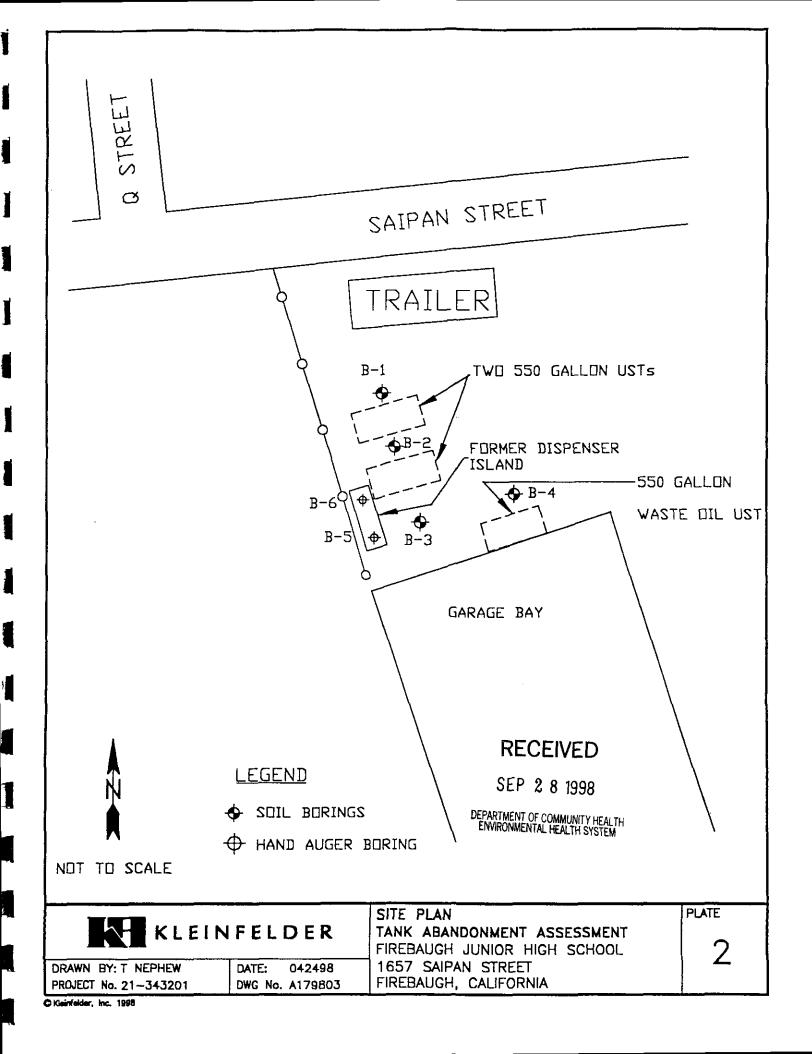
1

BSK LABORATORIES

	9806000596- KLEINFELDER		HEMARKS	7	~		<u></u>	9					•		٠		Send Results To	KLEINFELDER HUN C C+	FRESNO, CA 93706 (209) 486-0750	Att. Em. 1 Abic Rached	Min. Imac III	Pink - Lab Copy Nº 621
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	A Bus Ban		SAMPLEID	30585 B1e81 1	30586 BZER' /	30589 33681	0	30591 BSE3'	30592 B(C31 1)								Received by: (Signature)	ج خ	Cate Line Received by (Signature)	Date/Time Received for Laboratory by:	- 6/9/98 1650 (Mountallan))
	7	(P.O. NO.) SAMPLERS: (S)	DATE SAMPLE ID TIME TIME HH:MM:SS		01,21	0 / 21	wd ≤ 5:21	1:45	2:1500								Relinquished DV: (Sugnifice)	Market	nemiquismen by industrie	Relinquished by: (Signature)		M-60

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BSK ANALYTICAL LABORATORIES

Certificate of Analysis

Emad Abi-Rachel

Kleinfelder

1410 F Street

Fresno, CA 93706-1608

Submission Number Lab Number

Project Number Project Desc.

Sample Description

: 9806000596

65672 : 21-3432-01

: Firebaugh Bus Barn : 30585 Bǐ @ 8'

Report Issue Date: 07/03/98

Sample Date :

06/18/98 11:03

Sample Time: Sample Type : SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
EPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
EPA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 3015/DHS OUFT	Total Petroleum Hydrocarbons as Diesel	06/24/98	06/25/98	ND	mg/Kg	2	1	2

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DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM

Conversions:

1 ppm = 1000 ppb

1 ppb = 0.001 ppm

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb

Milligrams/Kilogram = ppm Micrograms/Kilogram - ppb Dil :

Practical Quantitation Limit PQL :

Dilution Factor DLR:

Reportable Detection Limit

derived by (PQL x Dil)

Certificate of Analysis

Report Issue Date: 07/03/98

Emad Abi-Rachel

Kleinfelder

1410 F Street

Fresno, CA 93706-1608

Submission Number

Lab Number Project Number

Project Desc.

ample Description

9806000596

65673 : 21-3432-01

: Firebaugh Bus Barn 30586 BŽ @ 8'

Sample Date : 06/18/98 Sample Time: 12:10

Sample Type: SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
ZPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
PA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA p15/DHS UFT	Total Petroleum Hydrocarbons as Diesel	06/24/98	06/25/98	9.7	mg/Kg	2	1	2

Lighter boiling-point hydrocarbons decreased relative to standard.

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DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM

Conversions:

1 ppm = 1000 ppb

1 ppb = 0.001 ppm

None Detected

Milligrams/Liter = ppm Micrograms/Liter - ppb

Milligrams/Kilogram - ppm Micrograms/Kilogram - ppb PQL: Dil :

Practical Quantitation Limit

Dilution Factor DLR:

Reportable Detection Limit

derived by (PQL x Dil)

BSK ANALYTICAL LABORATORIES

Certificate of

Emad Abi-Rachel Kleinfelder 1410 F Street Fresno, CA 93706-1608

Report Issue Date :

Sample Date : Sample Time :

Submission Number

: 9806000596 : 65674

Sample Type :

Lab Number Project Number

: 21-3432-01 : Firebaugh Bus Barn : 30589 B3 @ 8'

Project Desc. Sample Description

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL
EPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	0.26	mg/Kg	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	0.21	mg/Kg	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005
EPA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005
EPA 8015 / EPA 8020	Gasoline Lighter boiling-point l	06/29/98 nydrocarbons d	06/29/98 ecreased relative	74 to standard.	mg/Kg	1
EPA 8015 / EPA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05
EPA 8015/DHS LUFT	Total Petroleum Hydrocarbons as Diesel Individual peaks incon	07/02/98	07/02/98	82	mg/Kg	2

Individual peaks inconsistent with fuel "fingerprint".

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DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM

NDNone Detected

PQL: Dil :

Practical Quantitation Limit

 \mathbf{C}_{L} 1

mg/L μg/L mg/kg

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram - ppm

DLR:

Dilution Factor Reportable Detection Limit

derived by (PQL x Dil)

Higher limits may result from exceptional sample matr

Micrograms/Kilogram - ppb μg/kg

Certificate of Analysis

Emad Abi-Rachel Kleinfelder

1410 F Street

Fresno, CA 93706-1608

Report Issue Date: 07/03/98

Sample Date :

06/18/98

Sample Time : Sample Type:

12:55 SOLID

Submission Number Lab Number

9806000596

65675

21-3432-01 : Firebaugh Bus Barn

Project Number Project Desc.

Sample Description

: 30590 B4 @ 8'

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
ţМ 5520F	Hydrocarbon Oil & Grease	06/29/98	06/29/98	ND	mg/Kg	20	1	20
EPA 8015 / EPA 8020	Вепгене	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0,005
PA 8015 / PA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
EPA 8015 / LPA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 8015/DHS	Total Petroleum Hydrocarbons as	07/02/98	07/02/98	ND	mg/Kg	2	1	2
UFT	Diesel	-				חבטבוי	VED	

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DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM

ŒΙ

None Detected

Practical Quantitation Limit

Conversions:

μg/L

Milligrams/Liter = ppm Micrograms/Liter - ppb Dil : DLR:

PQL:

Dilution Factor Reportable Detection Limit 1 ppm = 1000 ppb 1 ppb = 0.001 ppm

Milligrams/Kilogram - ppm

derived by (PQL x Dil)

Higher limits may result from exceptional sample matrices or interferences

ng/kg Micrograms/Kilogram - ppb

Certificate of Analysis

Emad Abi-Rachel Kleinfelder 1410 F Street

Fresno, CA 93706-1608

Submission Number

Lab Number

Project Number Project Desc.

Sample Description

9806000596

: 65676 : 21-3432-01

: Firebaugh Bus Barn : 30591 B5 @ 3'

Report Issue Date: 07/03/98

Sample Date:

06/18/98 13:45

Sample Time : Sample Type:

SOLID

BSK LABORATORIES LUFT ANALYSIS

Method	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR
EPA 8015 / EPA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	0.012	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	0.018	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Gasoline Lighter boiling-point	06/29/98 hydrocarbons d	06/29/98 ecreased relative	6.8 to standard.	mg/Kg	1	1	1
EPA 8015 / EPA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 015/DHS LUFT	Total Petroleum Hydrocarbons as Diesel	07/02/98	07/02/98	270	mg/Kg	2	1	2

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SEP 2 8 1998

DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM

 \mathbb{D} ag/L

None Detected

Milligrams/Liter = ppm Micrograms/Liter = ppb

Milligrams/Kilogram - ppm Micrograms/Kilogram - ppb

POL: Dil :

DLR :

Practical Quantitation Limit Dilution Factor

Reportable Detection Limit

Conversions:

1 ppm = 1000 ppb1 ppb = 0.001 ppm

derived by (PQL x Dil) Higher limits may result from exceptional sample matrices or interferences

Certificate of Analysis

Emad Abi-Rachel

ubmission Number

Cleinfelder 410 F Street

ab Number

Fresno, CA 93706-1608

: 9806000596

65677 Project Number 21-3432-01

: Firebaugh Bus Barn Project Desc. Tample Description : 30592 B6 @ 3'

Report Issue Date: 07/03/98

06/18/98 Sample Date : Sample Time: 14:15

Sample Type: SOLID

BSK LABORATORIES LUFT ANALYSIS

wlethod	Analyte	Date Prep.	Date Anal.	Result	Units	PQL	Dil	DLR .
PA 8015 / PA 8020	Benzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / PA 8020	Ethylbenzene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
EPA 8015 / EPA 8020	Toluene	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / EPA 8020	Xylenes, Total	06/29/98	06/29/98	ND	mg/Kg	0.005	1	0.005
PA 8015 / PA 8020	Gasoline	06/29/98	06/29/98	ND	mg/Kg	1	1	1
PA 8015 / PA 8020	Methyl-tert-Butyl Ether	06/29/98	06/29/98	ND	mg/Kg	0.05	1	0.05
EPA 115/DHS JFT	Total Petroleum Hydrocarbons as Diesel	07/02/98	07/02/98	26	mg/Kg	2	1	2

None Detected

Practical Quantitation Limit PQL :

Conversions:

Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm

Dil : Dilution Factor DLR: Reportable Detection Limit 1 ppm = 1000 ppb1 ppb = 0.001 ppm

derived by (PQL x Dil) Micrograms/Kilogram - ppb

A N A L Y T I C A L LABORATORIES

Certificate of Analysis

Emad Abi-Rachel

Kleinfelder

1410 F Street

Fresno, CA 93706-1608

Preparation Date: 06/25/98

Analysis Date: 06/26/98

Report Issue Date: 07/03/98

> 06/18/98 Sample Date :

Sample Time : 12:55 Sample Type : SOLID

Submission Number

: 9806000596

Lab Number Project Number

65675 : 21-3432-01

roject Desc.

: Firebaugh Bus Barn

sample Description

: 30590 B4 @ 8'

8010, Volatile Halocarbons, Solid

Analyte	Result	Units	PQL	Dil	DLR	
Bromodichloromethane	ND	mg/Kg	.01	1	0.01	
romomethane	ND	mg/Kg	.04	1	0.04	
Bromoform	ND	mg/Kg	.01	1	0.01	
Carbon tetrachloride	ND	mg/Kg	.01	1	0.01	
Chlorobenzene	ND	mg/Kg	.01	1	0.01	
Chloroethane	ND	mg/Kg	.01	1	0.01	
Chloromethane	ND	mg/Kg	.01	1	0.01	
Chloroform	ND	mg/Kg	.01	1	0.01	
Dibromochloromethane	ND	mg/Kg	.01	1	0.01	
,1-Dichloroethane	ND	mg/Kg	.01	1	0.01	
1,1-Dichloroethene	ND	mg/Kg	.01	1	0.01	
1,2-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
2-Dichloroethane	ND	mg/Kg	.01	1	0.01	
,2-Dichloropropane	ND	mg/Kg	.01	1	0.01	
7,3-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
1,4-Dichlorobenzene	ND	mg/Kg	.01	1	0.01	
ichlorodifluoromethane	ND	mg/Kg	.04	1	0.04	
s-1,3-Dichloropropene	ND	mg/Kg	.01	1	0.01	
crans-1,2-Dichloroethene	ND	mg/Kg	.01	1	0.01	
trans-1,3-Dichloropropene	ND	mg/Kg	.01	1	0.01	
Methylene chloride	ND	mg/Kg	.04	1	0.04	
1,2,2-Tetrachloroethane	ND	mg/Kg	.01	1	0.01	
Tetrachloroethene (PCE)	ND	mg/Kg	.01	1	0.01	
1,1,1-Trichloroethane (1,1,1-TCA)	ND	mg/Kg	.01	1	0.01	
1,2-Trichloroethane (1,1,2-TCA)	ND	mg/Kg	.01	1	0.01	
richloroethene (TCE)	ND	mg/Kg	.01	1	0.01	
richlorofluoromethane (Freon 11)	ND	mg/Kg	.01	1	0.01	
Vinyl Chloride	ND	mg/Kg	.02	1	0.02	
3-1,2-Dichloroethene	ND	mg/Kg	.01	1	0.01	

None Detected

Milligrams/Liter = ppm

Micrograms/Liter - ppb

Milligrams/Kilogram = ppm Micrograms/Kilogram - ppb

Practical Quantitation Limit POL:

Dilution Factor Dil : DLR :

Reportable Detection Limit derived by (PQL x Dil)

Conversions:

1 ppm = 1000 ppb1 ppb = 0.001 ppm

Certificate of Analysis

06/19/98 Date Received:

07/03/98 Date Reported

9800009086 Submission Number : Project ID : Project Desc :

Fresno, CA 93706-1608

1410 F Street Kleinfelder

Emad Abi-Rachel

<u>TEST</u> Lead, by ICP, Solid

21-3432-01 Firebaugh Bus Barn

METHOD EPA 6010

DLR	יטיטיטיטיטיטי
Dil	,
PQL	พพพพพพ
Units	н н н н н н н н н н н н н н н н н н н
Result	8.3 6.3 8.3 8.3 1.3 4.1 4.1
Analyte	Lead (Pb) Lead (Pb) Lead (Pb) Lead (Pb) Lead (Pb) Lead (Pb)
Date Anal.	06/30/98 06/30/98 06/30/98 06/30/98
Date Prep.	06/30/98 06/30/98 06/30/98 06/30/98 06/30/98
Time Sampled	11:03 12:10 12:40 12:55 13:45
Date Sampled	06/18/98 06/18/98 06/18/98 06/18/98 06/18/98
Sample Description	30585 B1 @ 8' 30586 B2 @ 8' 30589 B3 @ 8' 30590 B4 @ 8' 30591 B5 @ 3' 30592 B6 @ 3'
Lab Nuniber	65672 65673 65674 65675 65675

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Milligrams/Liter = ppm Micrograms/Liter = ppb Milligrams/Kilogram = ppm Micrograms/Kilogram = ppb None Detected mg/kg µg/kg ND mg/L ug/L

Practical Quantitation Limit Dilution Factor Reportable Detection Limit derived by (PQL x Dil) Higher limits may be the result of exceptional sample matrices or interferences P.E.P.

1 ppm = 1000 ppb 1 ppb = 0.001 ppm Conversions:



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DATE SAMPLE ID TIME MM/DD/YY HH:MM:SS	SAMPLE ID	TAINERS	161/04/04/04/		REMARKS
K-1843 11:03	30585 B1e81	81		15 V 2	2
01,21	30586 BZER	18		V	1
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12:55 pm	0	,8		7	
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					(209) 486-0750
Relinquished by: (Signature)	Date/Time Received for Laboratory by: (Signature)	aboratory by:			Atth: Emad Abi-Rached
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)	white - Sampler		Canary - Return Copy To Shipper	7.17	Pink · Lab Copy No 621

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CERTIFICATE OF ANALYSIS Cover Letter

July 3, 1998

Emad Abi-Rachel Kleinfelder 1410 F Street Fresno, CA 93706-1608

BSK Submission Number

: 9806000596

Date Received

: 06/19/98

Dear Emad Abi-Rachel,

BSK adheres to a quality assurance plan that has been approved by the State of California, Department of Health Services. Our ELAP certificate number is 1180.

This Certificate of Analysis has been prepared in response to your request for analytical services. Information was taken from your Chain-of-Custody or related correspondence. All sample handling and analytical procedures were completed within BSK Laboratories' standard acceptability criteria with any exceptions noted below.

If additional clarification of information contained within this certificate is needed, please contact our Client Service Department at 1-800-877-8310 or 209-497-2888.

Sincerely,

BSK Laboratories

Authorizing Signature(s)

/Juliane Adams

Organic Laboratory Supervisor

q to

Bradley Meadows

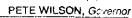
Inorganic Laboratory Supervisor

Cynthia Pigman QA/QC Supervisor

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SEP 2 8 1998

DEPARTMENT OF COMMUNITY HEALTH ENVIRONMENTAL HEALTH SYSTEM



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

3614 East Ashlan Ave. Fresno, CA 93726 PHONE: (209) 445-5116 FAX: (209) 445-5910



Firebaugh Unified School District 1976 Morris Kyle Drive Firebaugh, CA 93622

19 September 1996

UNDERGROUND TANK LEAK CLOSURE FOR THE DIESEL LEAK ON THE SOUTHERN CORNER OF SAIPAN AVENUE AND Q STREET, FIREBAUGH, FRESNO **COUNTY**

This letter confirms the completion of site investigation and remedial action for the diesel underground storage tank leak at the subject location. The Executive Director of the State Water Resources Control Board, based on a recent evaluation of leaking underground tank sites, has directed us to review existing cases and determine if they can now be closed.

Based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, our review led to a conclusion that no further action related to the diesel underground storage tank release is required.

The groundwater monitoring wells that were used to investigate the diesel release are no longer required. Accordingly, unless you choose to maintain the monitoring wells for future use, they must be properly abandoned in accordance with Fresno County Environmental Health Department requirements (see case closure memorandum for additional information).

Enclosed is a case closure memorandum for the referenced site for your records. This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

Should you have questions regarding this matter, please telephone Russell Walls of this office at (209) 445-6192.

WILLIAM H. CROOKS

Executive Officer

Assistant Executive Officer

RWW:rww

Enclosure

Mr. Jim Armstrong, Fresno County Environmental Health Department, Fresno



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD • CENTRAL VALLEY REGION

3614 East Ashlan Ave. Fresno, CA 93726

Phone: (209) 445-5116 CALNET: 8-421-5116

To:

John M. Noonan

Senior Engineer

From: Russell W. Walls

Assoc. WRC Engineer

DATE:

19 September 1996

SIGNATURE: Russell W. Walls

Subject:

CASE CLOSURE SUMMARY FOR THE UNDERGROUND STORAGE TANK DIESEL

RELEASE AT FIREBAUGH SCHOOL DISTRICT, SOUTHERN CORNER OF SAIPAN

AVENUE AND O STREET, FIREBAUGH, FRESNO COUNTY

Background Information:

One 10,000-gallon underground storage tank (UST) was removed from the site on 18 August 1987. The UST was used to store diesel and contained numerous holes at the time of removal. Two soil samples were collected from approximately three feet below the UST. Both soil samples contained total petroleum hydrocarbons as diesel (TPH-d) at 22,000 mg/kg.

Four soil borings were drilled and four monitoring wells were installed in late 1987. Soil samples from three of the four soil borings contained no petroleum degradation. Soil samples from the fourth boring only contained insignificant petroleum degradation (total petroleum hydrocarbons as diesel at 4.4 mg/kg). Only one of the groundwater samples collected from the monitoring wells on 7 December 1987 contained any petroleum constituents. The sample from monitoring well MW-3 contained trace concentrations of petroleum constituents (benzene at 1.0 ug/l, toluene at 1.5 ug/l, and xylene at 0.7 ug/l). The monitoring wells were resampled on 20 January 1988 and all four samples were nondetect for petroleum constituents. It was concluded that petroleum degradation was limited to the immediate area of the former tank pit. It was proposed that the former tank pit be further excavated to 14 feet below ground surface or until groundwater is encountered.

The remaining degraded soils were excavated in April 1988. Groundwater that accumulated in the excavation was removed using a vacuum truck. Four confirmation soil samples were collected from the excavation. The only petroleum constituent detected in any of the four samples was TPH-d at 18 mg/kg. An additional monitoring well was also installed.

Additional groundwater monitoring rounds were performed on 23 February 1988, 7 June 1988. 14 September 1988, 30 September 1988, and 8 February 1989. During these additional five rounds of groundwater sampling, 23 groundwater samples were collected. Eighteen of the samples were nondetect for petroleum constituents. The remaining five samples only contained trace concentrations of petroleum constituents.

Conclusion:

The provided information indicates that virtually all degraded soils were excavated. Five groundwater monitoring wells were installed to evaluate the impact on groundwater. Numerous rounds of groundwater monitoring have demonstrated that the impact to groundwater has been minimal and that soil remediation has effectively addressed groundwater degradation as well. The remaining low concentrations of petroleum constituents in groundwater will naturally degrade and do not pose a threat to the beneficial uses of groundwater.

We do not require that monitoring wells used for site investigation of the diesel release be maintained for future use. Unless Firebaugh Unified School District demonstrates an intention to use these wells again, and the wells are properly maintained, Firebaugh Unified School District must abandon the wells. Prior to abandoning the wells, Firebaugh Unified School District must obtain a well abandonment permit from the Fresno County Environmental Health Department. The well abandonments must be in accordance with Fresno County Environmental Health Department requirements.

I recommend that a standard site closure letter be mailed to Firebaugh Unified School District and that Firebaugh Unified School District be allowed to properly abandon all remaining monitoring wells that were used to investigate the diesel release.

RWW

Appendix E

Noise Calculations





Construction Noise

	Noise Level @ 50 ft	Single Family Res to the E	Firebaugh Middle School	Hazel M Bailey on site
Distance	•	305	450	155
Site Preparation	83	67.293	63.915	73.173
Grading	81	65.293	61.915	71.173
Building Construction	77	61.293	57.915	67.173
Paving	77	61.293	57.915	67.173
Utilities_Trenching	77	61.293	57.915	67.173

Construction Vibration

	Vibration @ 25 ft	Single Family Res to the NW	On-site classrooms
Distance		225	55
Vibratory Roller	0.21	0.008	0.064
Large Bulldozer	0.089	0.003	0.027
Loaded Trucks	0.076	0.003	0.023
Static Roller	0.05	0.002	0.015
Small Bulldozer	0.003	0.000	0.001

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/14/2024

Case Description: Site Preparation

**** Receptor #1 ****

			Bas	Baselines (dBA)			
Description		Land Use)	Daytime	Evening	Night	
Site Preparation		Resident	ial	65.0	55.0	50.0	
				Equipment			
			Spec	Actual	Receptor	Estimated	
	Impact	Usage	Lmax	Lmax	Distance	Shielding	
Description	Device	(%)	(dBA)	(dBA)	(feet)	(dBA)	
Dozer	No	40		81.7	50.0	0.0	
Excavator	No	40		80.7	50.0	0.0	
Scraper	No	40		83.6	50.0	0.0	

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night		Day	Calculated (dBA) Evening			ay Night	Evening		
Ü									
Equipment			Lmax	Leq	 Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		•	
Dozer			81.7	77.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Excavator			80.7	76.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Scraper			83.6	79.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	To	tal	83.6	82.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/14/2024 Case Description: Grading

**** Receptor #1 ****

			Baselines	s (dBA)
Description	Land Use	Daytime	Evening	Night
Grading	Residential	65.0	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	50.0	0.0
Excavator	No	40		80.7	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night		Day	Calculate	d (dBA) Evening		ay Night 	Eveni	ng	
Equipment Leq	Lmax	Leq	Lmax Lmax	Leq Leq	Lmax Lmax	Leq Leq	Lmax	Leq	Lmax
Dozer			81.7	77.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Excavator			80.7	76.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Front End	Loader		79.1	75.1	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	Tot	al	81.7	81.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/14/2024

Case Description: Building Construction

**** Receptor #1 ****

		Baselin	es (dBA)	
Description	Land Use	Daytime	Evening	Night
Building Construction	Residential	65.0	55.0	50.0

				Equipme	nt	
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

			Calculate	ed (dBA)	D	ay	Eveni	.ng	
Night		Day		Evening		Night			
· ·									
Equipment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq			
Crane			80.6	72.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Man Lift			74.7	67.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Backhoe			77.6	73.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	To	tal	80.6	76.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/14/2024 Case Description: Paving

**** Receptor #1 ****

			Baseline	s (dBA)
Description	Land Use	Daytime	Evening	Night
Paving	Residential	65.0	55.0	50.0

Equipment
-----Spec Actual

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Roller	No	20		80.0	50.0	0.0
Paver	No	50		77.2	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night		Day	Calculate	ed (dBA) Evening		ay Night 	Eveni	ng	
Equipment Leq	Lmax	Leq	Lmax Lmax	Leq Leq	Lmax Lmax	Leq Leq	Lmax	Leq	Lmax
Roller N/A	N/A	 N/A	80.0 N/A	73.0 N/A	N/A N/A	N/A N/A	N/A	N/A	N/A
Paver N/A Man Lift	N/A	N/A	77.2 N/A 74.7	74.2 N/A 67.7	N/A N/A N/A	N/A N/A N/A	N/A N/A	N/A N/A	N/A N/A
N/A N/A	N/A To N/A	N/A tal N/A	N/A 80.0 N/A	N/A 77.2 N/A	N/A N/A N/A	N/A N/A N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 08/14/2024

Case Description: Utility/Trenching

**** Receptor #1 ****

				Base	lines (dBA))
Description		Land Us	e	Daytime	Evening	Night
			-			
Utility/Tren	ching	Residential		65.0	55.0	50.0
				Equipment		
			Spec	Actual	Receptor	Estimated
	Impact	Usage	Lmax	Lmax	Distance	Shielding
Description	Device	(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night		Day	Calculate	ed (dBA) Evening		ay Night 	Eveni	ng 	
Equipment Leq	Lmax	Leq	Lmax Lmax	Leq Leq	Lmax Lmax	Leq Leq	 Lmax 	Leq	Lmax
Excavator N/A	N/A _	N/A	80.7 N/A	76.7 N/A	N/A N/A	N/A N/A	N/A	N/A	N/A
N/A	To [.] N/A	tal N/A	80.7 N/A	76.7 N/A	N/A N/A	N/A N/A	N/A	N/A	N/A





Product Data

WeatherMaker® Single Package Heat Pump Rooftop

3 to 6 Nominal Tons





50FCQ*04, 05, 06, 07 Single-Packaged Heat Pump with Optional Electric Heat and Puron® Refrigerant (R-410A)

© 2023 Carrier Form 50FCQ-4-7-04PD Rev. B

Features/Benefits



The New Carrier WeatherMaker® packaged heat pump rooftop units (RTU) with EcoBlue™ Technology were designed by customers for customers and integrate new technology to provide value added benefits never seen in this type of equipment before.

New major design features include:

- Patented, industry's first efficient indoor fan system using Vane Axial fan with electronically commutated variable speed motor
- Reliable fixed speed scroll compressor on 3-5 ton sizes and 2 stage scroll technology on 6 ton sizes
- Upgraded unit control board with intuitive indoor fan adjustment
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge versus prior designs
- New outdoor fan system with rugged lightweight high impact composite fan blade

50FCQ WeatherMaker® units up to 6 tons are specifically designed to fit on Carrier roof curbs that were installed back to 1989, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

Single-stage units deliver efficiencies of up to 14.3 SEER and 8.2 HSPF on 3-phase products and 13.4 SEER2 and 7.0 HSPF2 on single-phase products. Two-stage units deliver up to 15.0 IEER. All models are capable of either vertical or horizontal airflow.

The Carrier rooftop unit (RTU) was designed by customers for customers. With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Precisely sized Suction Line Accumulator to help insure reliable operation at unit operation conditions.

Value-added features include:

- Puron® refrigerant (R-410A)
- Single point electrical connections
- Optional fully integrated SystemVu[™] controls
- RTU Open controller for BACnet^{™1}, LonWorks^{®1}, Modbus^{®1} and Johnson Controls N2

- 3 to 5 ton models use fixed refrigerant metering devices and 6 ton models use a TXV
- Scroll compressors with internal line-break overload protection
- Easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit.

Installation ease

All WeatherMaker units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. Lighter units make for easy replace. Simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work and room to mount Carrier accessory controls.

Easy to maintain

With the new EcoBlue Vane Axial fan system and direct drive ECM motor, there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles by Carrier provide quick and easy access to all normally serviced components. Our "no-strip" screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water; and won't rust.

Easy to use

The newly re-designed Unit Control Board by Carrier puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement. Carrier rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

D- --

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Third-party trademarks and logos are property of their respective owners.

Features/Benefits (cont)



EcoBlue™ Technology

Direct drive EcoBlue Technology indoor fan system uses Vane Axial fan design and direct drive electronically commutated motors.

This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaker® rooftops into existing building automation systems easy. The units are compatible with conventional thermostat controls, SystemVu $^{\text{\tiny M}}$ controls and Carrier RTU Open multiprotocol controller.

Operating efficiency and flexibility

The 50FCQ rooftops meet ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC®1-2018 (International Energy Conservation Code) minimum efficiency requirements.

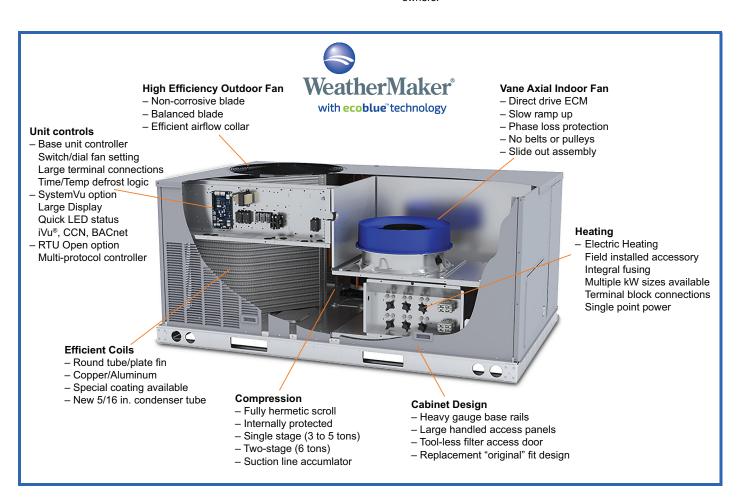
Field convertible airflow

All WeatherMaker 3 to 6 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications.

Comfort control

Carrier's Round Tube Plate Fin coil design helps maximize heat transfer and reliable operation.

 Third-party trademarks and logos are property of their respective owners



Capacity ratings (cont)



Sound Ratings Table^{a,b,c}

	COOLING		OUTDOOR SOUND (dB) AT 60 Hz							
UNIT	STAGES	A-WEIGHTED	63	125	250	500	1000	2000	4000	8000
50FCQ*04	1	75.4	81.8	81.8	77.0	72.6	69.9	64.6	59.3	55.6
50FCQ*05	1	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
50FCQ*06	1	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
50FCQ*07	2	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

NOTE(S):

- a. Outdoor sound data is measured in accordance with AHRI.
- b. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- c. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

dB - Decibel

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

		COOL	ELECTRIC HEAT ^a			
UNIT	Minimum Airflow (cfm)	Minimum 2-Speed Airflow (low speed)	Minimum 2-Speed Airflow (high speed)	Maximum Airflow (cfm)	Minimum Airflow (cfm)	Maximum Airflow (cfm)
50FCQ*04	900	_	_	1500	900	1500
50FCQ*05	1200	_	_	2000	1200	2000
50FCQ*06	1500	_	_	2500	1500	2500
50FCQ*07	1800	1200	1800	3000	1800	3000

NOTE(S):

a. Electric heat modules are available as field-installed accessories for 50FCQ units.



Product Data

WeatherMaster® Single Packaged Rooftop

3 to 5 Nominal Tons





48/50GC**04, 05, 06

48GC: Single-Package Gas Heating/Electric Cooling Rooftop Units 50GC: Electric Cooling Rooftop Units with Optional Electric Heat with Puron® Refrigerant (R-410A)

© 2023 Carrier Form 48-50GC-4-6-04PD

Features/Benefits



The New Carrier
WeatherMaster® rooftop
units (RTU) with EcoBlue™
Technology were designed
by customers for customers
and integrate new
technology to provide value
added benefits never seen in
this type of equipment
before.

New major design features include:

- Patented, industry's first efficient indoor fan system using Vane Axial Fan technology — with electronically commutated variable speed motor.
- Reliable 2-stage scroll compressor on all sizes.
- Upgraded unit control board with intuitive indoor fan adjustment.
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge verses prior designs.
- New outdoor fan system with rugged — lightweight high impact composite fan blade

48/50GC WeatherMaster® units up to 5 tons are specifically designed to fit on Carrier roof curbs that were installed back to 1989, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

Two-stage cooling capacity control delivers efficiencies of up to 17.4 SEER and 16.5 SEER2. All models are capable of either vertical or horizontal airflow.

The Carrier rooftop unit (RTU) was designed by customers for customers. With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Your new 3 to 5 ton WeatherMaster Carrier rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

Value-added features include:

- optional Humidi-MiZer® adaptive dehumidification system for improved part load humidity performance
- Puron® refrigerant (R-410A)
- single point gas and electrical connections
- optional fully integrated SystemVu[™] controls
- RTU Open controller for BACnet^{™1}, LonWorks^{®1}, Modbus^{®1} and Johnson Controls N2
- optional fully insulated cabinet with optional foil faced insulation
- TXV refrigerant metering system
- Scroll compressors with internal line-break overload protection
- Units come with an easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit.

Installation ease

All WeatherMaster units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected

1. Third-party trademarks and logos are the property of their respective owners.

jobsite complications. Lighter units make for easy replacement. Simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work and room to mount Carrier accessory controls.

Easy to maintain

With the new EcoBlue Vane Axial fan system and direct drive ECM motor — there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles by Carrier provide quick and easy access to all normally serviced components. Our "no-strip" screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water; and won't rust.

Easy to use

The newly re-designed Unit Control Board by Carrier puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement. Carrier rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

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Features/Benefits (cont)



EcoBlue Technology

Direct drive $EcoBlue^{TM}$ Technology indoor fan system uses Vane Axial fan design and electronically commutated motors.

This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaster® rooftops into existing building automation systems easy. The units are compatible with conventional

thermostat controls, SystemVu™ controls and Carrier RTU Open multiprotocol controller.

Operating efficiency and flexibility

The 48/50GC rooftops exceed ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC®1 (International Energy Conservation Code) IECC-2018 minimum efficiency requirements.

1. Third-party trademarks and logos are the property of their respective owners.

Field convertible airflow

All WeatherMaster 3 to 5 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications.

Comfort control

Carrier's patented Humidi-MiZer® adaptive dehumidification system is an all-inclusive factory-installed option on gas heating/electric cooling and electric cooling/electric heat models. This system provides reliable, flexible operation to meet indoor part load sensible and latent requirements.



Model number nomenclature



48GC Model Number Nomenclature

Position: 2 3 4 5 6 7 8 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 8 G С D L 0 4 Α 2 Α 5 0

Unit Heat Type

48 = Gas Heat Packaged Rooftop

Model Series — WeatherMaster®

GC = 17.4 SEER and 16.5 SEER2 High Eff.

Heat Options

- D = Low Gas Heat
- E = Medium Gas Heat
- F = High Gas Heat
- L = Low NOx Low Gas Heat¹
- S = Low Heat w/ Stainless Steel Exchanger
- R = Medium Heat w/ Stainless Steel Exchanger
- T = High Heat w/ Stainless Steel Exchanger

Refrig. Systems Options

- H = Two-Stage Cooling with Low Ambient Control (1-phase only)2,3
- J = Two-Stage Cooling²
- K = Two-Stage Cooling with Humidi-MiZer system (includes Low Ambient control)²
- L = Two-Stage Cooling with Low Ambient control²
- T = Two-Stage Cooling (1-phase only)^{2,3}

Cooling Tons

- 04 = 3 ton
- 05 = 4 ton
- 06 = 5 ton

Sensor Options

- A = None
- B = RA (Return Air) Smoke Detector
- C = SA (Supply Air) Smoke Detector
- D = RA + SA Smoke Detector
- $E = CO_2$
- F = RA Smoke Detector and CO₂
- G = SA Smoke Detector and CO₂
- H = RA + SA Smoke Detector and CO₂
- J = Condensate Overflow Switch
- K = Condensate Overflow Switch and RA Smoke Detector
- L = Condensate Overflow Switch and RA and SA Smoke Detectors
- M = Condensate Overflow Switch and SA Smoke Detector

Indoor Fan Options

- 1 = Direct Drive EcoBlue™ Standard Static
- 2 = Direct Drive EcoBlue Medium Static
- 3 = Direct Drive EcoBlue High Static

Coil Options - Round Tube/Plate Fin Condenser Coil (Outdoor - Indoor — Hail Guard)

- A = AI/Cu AI/Cu
- B = Precoat Al/Cu Al/Cu
- C = E-coat Al/Cu Al/Cu
- D = E-coat Al/Cu E-coat Al/Cu
- E = Cu/Cu AI/Cu
- F = Cu/Cu Cu/Cu
- M = Al/Cu Al/Cu Louvered Hail Guard
- N = Precoat Al/Cu Al/Cu Louvered Hail Guard
- P = E-coat Al/Cu Al/Cu Louvered Hail Guard
- Q = E-coat Al/Cu E-coat Al/Cu Louvered Hail Guard
- R = Cu/Cu Al/Cu Louvered Hail Guard
- S = Cu/Cu Cu/Cu Louvered Hail Guard

Factory Assigned

- 0 = Standard
- 1 = LTL

Electrical Options

- A = None
- B = HACR Breaker
- C = Non-Fused Disconnect (NFD)
- D = Thru-the-Base (TTB) Connections
- F = Non-Fused Disconnect and TTB Conn.
- N = Phase Monitor Protection
- P = Phase Monitor Protection and HACR
- Q = Phase Monitor Protection and NFD
- R = Phase Monitor Protection and TTB Conn.
- S = Phase Monitor Protection, HACR Breaker,
- and TTB Conn.
- T = Phase Monitor Protection, NFD, and TTB Conn.

Service Options

- 0 = None
- 1 = Unpowered Convenience Outlet (CO)
- 2 = Powered Convenience Outlet
- 3 = Hinged Access Panels
- 4 = Hinged Access Panels and Unpowered CO
- 5 = Hinged Panels and Powered CO
- 6 = MERV-8 High Efficiency Filters
- C = Foil Faced Insulation

Intake / Exhaust Options

- A = None
- B = Temperature Economizer w/ Barometric Relief
- F = Enthalpy Economizer w/ Barometric Relief
- U = Temperature Ultra Low Leak Economizer with Barometric Relief
- W = Enthalpy Ultra Low Leak Economizer with Barometric Relief

Base Unit Controls

- 0 = Base Controls, set up for field-installed air mgmt devices
- 2 = RTU Open Multi-Protocol Controller
- 3 = SystemVu™ Controls with Display
- 6 = Electromechanical Controls can be used with W7220 EconoMi\$er X (with Fault Detection and Diagnostic)

Design Revision

= Factory Design Revision

Voltage

- 1 = 575-3-60
- $3 = 208/230-1-60^3$
- 5 = 208/230-3-60
- 6 = 460-3-60
- ¹ Low NOx models include Stainless Steel HX.
- ² Units meet Department of Energy 2023 SEER2 requirements.
- ³ The following are not available as a factory-installed options for models with this voltage code: Humidi-MiZer System, Coated Coils or Cu Fin Coils, Louvered Hail Guards, Economizer, Powered 115 Volt Convenience Outlet

Capacity ratings (cont)



Sound Ratingsa,b,c

48/50GC UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz								
		A-Weighted	63	125	250	500	1000	2000	4000	8000
**04	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
**05	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
**06	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

NOTE(S)

- a. Outdoor sound data is measured in accordance with AHRI.
- b. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- c. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

db - Decibel

Minimum - Maximum Airflow Ratings (cfm) — Natural Gas and Propane

	VOLTAGE	HEAT LEVEL		COOL	HEATING ^a			
UNIT			Minimum Airflow cfm	Minimum 2-Speed Airflow (low speed)	Minimum 2-Speed Airflow (high speed)	Maximum Airflow cfm	Minimum Airflow cfm	Maximum Airflow cfm
		LOW	900	675		1500	890	1950
	1 phase	MED			900		800	1520
48GC**04		HIGH			ļ		_	_
40GC 04		LOW	900	675	900	1500	910	2010
	3 phase	MED					960	1160
		HIGH					_	_
	1 phase	LOW	1200	900	1200	2000	890	2440
		MED					1050	2280
48GC**05		HIGH					1220	2170
40GC***05	3 phase	LOW	1200	900	1200	2000	910	2010
		MED					1250	2330
		HIGH					1390	2220
	1 phase	LOW	1500	1125	1500	2500	890	3250
		MED					1050	2730
48GC**06	3 phase	LOW	1500	1125	1500	2500	910	2510
		MED					1250	2720
		HIGH					1390	2780

NOTE(S):

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

		COOLII	ELECTRIC HEAT ^a				
UNIT	Minimum Airflow cfm	Minimum 2-Speed Airflow (low speed)	Minimum 2-Speed Airflow (high speed)	Maximum Airflow cfm	Minimum Airflow cfm	Maximum Airflow cfm	
50GC**04	900	675	900	1500	900	1500	
50GC**05	1200	900	1200	2000	1200	2000	
50GC**06	1500	1125	1500	2500	1500	2500	

NOTE(S)

a. Electric heat modules are available as both factory-installed options or field-installed accessories for 50GC units.

a. Heating rating values are identical for aluminum heat exchangers and stainless steel heat exchangers.

Capacity ratings (cont)



Heat Rating — Natural Gas and Propane

			AL/SS HEAT	EXCHANGER	TEMPERATURE	THERMAL	AFUE EFFICIENCY
48GC UNIT		GAS HEAT	Input/Output Stage 1 (MBH)	Input/Output Stage 2 (MBH)	RISE (°F)	EFFICIENCY (%)	(%)
	a	LOW	—/—	65/53	25-55	81	81
	Single Phase	MED	—/—	90/73	45-85	82	81
04	1 11450	HIGH	—/—	—/—	_	_	_
04		LOW	50/40	67/54	25-55	81	_
	Three Phase	MED	82/65	110/88	50-85	80	_
	1 11450	HIGH	—/—	—/—	_	_	_
	<u> </u>	LOW	—/—	65/53	20-55	81	81
	Single Phase	MED	—/—	90/73	30-65	82	81
05	1 11450	HIGH	—/—	130/106	45-80	81	81
US		LOW	50/40	67/54	25-55	81	_
	Three Phase	MED	82/65	110/88	35-65	80	_
	1 11450	HIGH	120/96	150/120	50-80	80	_
	Single	LOW	—/—	65/53	15-55	81	81
	Phase	MED	—/—	90/73	25-65	82	81
06		LOW	50/40	67/54	20-55	81	_
	Three Phase	MED	82/65	110/88	30-65	80	_
	1 11436	HIGH	120/96	150/120	40-80	80	_

Heat Rating — Low NOx

			AL/SS HEAT	EXCHANGER	TEMPERATURE	THERMAL	AFUE EFFICIENCY (%)	
4	48GC UNIT	GAS HEAT	Input/Output Stage 1 (MBH)	Input/Output Stage 2 (MBH)	RISE (°F)	EFFICIENCY (%)		
04	Single Phase	LOW	_	60 / 49	20-50	81%	81%	
04	Three Phase	LOW	_	60 / 49	20-50	81%	_	
05	Single Phase	LOW	_	60 / 49	20-50	81%	81%	
US	Three Phase	LOW	_	60 / 49	20-50	81%	_	
06	Single Phase	LOW	_	60 / 49	15-50	81%	81%	
00	Three Phase	LOW	_	60 / 49	15-50	81%	_	