APPENDICES | MAY 2024









ANTELOPE VALLEY LOGISTICS CENTER – WEST (AVLC - WEST) PROJECT

PUBLIC REVIEW DRAFT INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

PREPARED FOR:

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PUBLIC REVIEW DRAFT
INITIAL STUDY/MITIGATED NEGATIVE DECLARATION
TECHNICAL APPENDICES

Antelope Valley Logistics Center – West (AVLC - West) Project

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This document is designed for double-sided printing to conserve natural resources.

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APPENDIX A
Air Quality/Greenhouse Gas Emissions/Energy Data

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Antelope Valley Logistics Center - West (AVLC - West) Project
Construction Start Date	11/1/2023
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	13.0
Location	34.744495131644086, -118.16282685088174
County	Los Angeles-Mojave Desert
City	Unincorporated
Air District	Antelope Valley AQMD
Air Basin	Mojave Desert
TAZ	3673
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.8

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	1,935	1000sqft	44.4	1,935,072	0.00	—	—	Two warehousebuildings, each 1,007,536 SF.
General Office Building	80.0	1000sqft	1.84	80,000	0.00	—	—	—
Parking Lot	2,142	Space	19.3	0.00	16,795	—	—	Islands provide a landscaped area of 2% of parking lots.
Other Asphalt Surfaces	123	1000sqft	2.82	0.00	0.00	—	—	Offsite roadway and utility improvements
Parking Lot	128	1000sqft	2.94	0.00	0.00	—	—	Estimated areas for truck loading docks (60' by 13')

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Transportation	T-50*	Required Project Contributions to Transportation Infrastructure Improvement
Water	W-5	Design Water-Efficient Landscapes
Waste	S-1/S-2	Implement Waste Reduction Plan

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.69	98.1	34.8	118	0.12	1.04	16.0	16.6	0.96	3.86	4.43	—	26,987	26,987	0.73	1.93	87.4	27,663
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.1	97.8	62.8	109	0.17	2.10	16.6	18.7	1.94	4.40	6.34	—	30,785	30,785	0.96	2.05	2.38	31,421
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15	21.1	22.4	62.6	0.08	0.57	9.73	10.3	0.54	2.38	2.92	—	16,995	16,995	0.50	1.31	24.4	17,421
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.94	3.85	4.09	11.4	0.01	0.10	1.78	1.88	0.10	0.43	0.53	—	2,814	2,814	0.08	0.22	4.04	2,884

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	8.69	8.98	34.8	118	0.12	1.04	14.0	15.0	0.96	3.40	4.36	—	26,567	26,567	0.71	1.93	82.1	27,243
2025	8.15	98.1	27.2	118	0.11	0.61	16.0	16.6	0.57	3.86	4.43	—	26,987	26,987	0.73	1.91	87.4	27,663
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.57	3.84	37.9	33.1	0.06	1.60	2.78	4.38	1.47	1.05	2.52	—	7,332	7,332	0.28	0.14	0.06	7,380
2024	11.1	97.8	62.8	109	0.17	2.10	16.6	18.7	1.94	4.40	6.34	—	30,785	30,785	0.96	2.05	2.38	31,421
2025	7.59	97.6	28.2	85.7	0.11	0.61	16.0	16.6	0.57	3.86	4.43	—	25,378	25,378	0.77	1.92	2.27	25,972
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	0.55	0.46	4.53	3.97	0.01	0.19	0.33	0.52	0.18	0.12	0.30	—	876	876	0.03	0.02	0.12	882
2024	5.15	21.1	22.4	62.6	0.08	0.57	9.73	10.3	0.54	2.38	2.92	—	16,995	16,995	0.50	1.31	24.4	17,421
2025	4.10	20.0	16.2	50.1	0.06	0.35	8.53	8.88	0.33	2.07	2.40	—	14,341	14,341	0.41	1.11	20.7	14,702
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.10	0.08	0.83	0.72	< 0.005	0.03	0.06	0.10	0.03	0.02	0.05	—	145	145	0.01	< 0.005	0.02	146
2024	0.94	3.85	4.09	11.4	0.01	0.10	1.78	1.88	0.10	0.43	0.53	—	2,814	2,814	0.08	0.22	4.04	2,884
2025	0.75	3.65	2.96	9.15	0.01	0.06	1.56	1.62	0.06	0.38	0.44	—	2,374	2,374	0.07	0.18	3.43	2,434

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	8.69	8.98	34.8	118	0.12	1.04	14.0	15.0	0.96	3.40	4.36	—	26,567	26,567	0.71	1.93	82.1	27,243
2025	8.15	98.1	27.2	118	0.11	0.61	16.0	16.6	0.57	3.86	4.43	—	26,987	26,987	0.73	1.91	87.4	27,663
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.57	3.84	37.9	33.1	0.06	1.60	2.78	4.38	1.47	1.05	2.52	—	7,332	7,332	0.28	0.14	0.06	7,380
2024	11.1	97.8	62.8	109	0.17	2.10	16.6	18.7	1.94	4.40	6.34	—	30,785	30,785	0.96	2.05	2.38	31,421
2025	7.59	97.6	28.2	85.7	0.11	0.61	16.0	16.6	0.57	3.86	4.43	—	25,378	25,378	0.77	1.92	2.27	25,972
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.55	0.46	4.53	3.97	0.01	0.19	0.33	0.52	0.18	0.12	0.30	—	876	876	0.03	0.02	0.12	882
2024	5.15	21.1	22.4	62.6	0.08	0.57	9.73	10.3	0.54	2.38	2.92	—	16,995	16,995	0.50	1.31	24.4	17,421
2025	4.10	20.0	16.2	50.1	0.06	0.35	8.53	8.88	0.33	2.07	2.40	—	14,341	14,341	0.41	1.11	20.7	14,702
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.10	0.08	0.83	0.72	< 0.005	0.03	0.06	0.10	0.03	0.02	0.05	—	145	145	0.01	< 0.005	0.02	146

2024	0.94	3.85	4.09	11.4	0.01	0.10	1.78	1.88	0.10	0.43	0.53	—	2,814	2,814	0.08	0.22	4.04	2,884
2025	0.75	3.65	2.96	9.15	0.01	0.06	1.56	1.62	0.06	0.38	0.44	—	2,374	2,374	0.07	0.18	3.43	2,434

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	34.2	77.5	63.8	305	0.81	1.06	20.8	21.9	1.05	4.08	5.13	1,905	91,300	93,205	195	10.1	307	101,385
Mit.	34.2	77.5	63.8	305	0.81	1.06	20.8	21.9	1.05	4.08	5.13	1,140	91,298	92,438	118	10.1	307	98,705
% Reduced	—	—	—	—	—	—	—	—	—	—	—	40%	< 0.5%	1%	39%	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.3	61.8	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	1,905	87,235	89,140	195	10.2	8.16	97,047
Mit.	17.3	61.8	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	1,140	87,233	88,373	118	10.2	8.16	94,368
% Reduced	—	—	—	—	—	—	—	—	—	—	—	40%	< 0.5%	1%	39%	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	26.5	70.3	73.6	227	0.78	1.18	20.8	22.0	1.16	4.08	5.24	1,905	88,893	90,798	195	10.2	133	98,840
Mit.	26.5	70.3	73.6	227	0.78	1.18	20.8	22.0	1.16	4.08	5.24	1,140	88,891	90,031	118	10.2	133	96,161
% Reduced	—	—	—	—	—	—	—	—	—	—	—	40%	< 0.5%	1%	39%	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.83	12.8	13.4	41.4	0.14	0.22	3.80	4.01	0.21	0.74	0.96	315	14,717	15,033	32.3	1.69	22.0	16,364
Mit.	4.83	12.8	13.4	41.4	0.14	0.22	3.80	4.01	0.21	0.74	0.96	189	14,717	14,906	19.6	1.69	22.0	15,921

% Reduced	—	—	—	—	—	—	—	—	—	—	—	40%	< 0.5%	1%	39%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.6	16.6	63.0	218	0.80	0.94	20.8	21.7	0.90	4.08	4.98	—	82,877	82,877	1.56	7.86	307	85,564
Area	15.6	60.9	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,876	4,761	91.0	2.18	—	7,686
Waste	—	—	—	—	—	—	—	—	—	—	—	1,020	0.00	1,020	102	0.00	—	3,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	0.00	0.00	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	34.2	77.5	63.8	305	0.81	1.06	20.8	21.9	1.05	4.08	5.13	1,905	91,300	93,205	195	10.1	307	101,385
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.3	15.3	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	—	79,172	79,172	1.60	7.95	7.97	81,588
Area	—	46.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,876	4,761	91.0	2.18	—	7,686
Waste	—	—	—	—	—	—	—	—	—	—	—	1,020	0.00	1,020	102	0.00	—	3,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	0.00	0.00	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	17.3	61.8	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	1,905	87,235	89,140	195	10.2	8.16	97,047

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.4	15.5	67.8	181	0.77	0.94	20.8	21.7	0.90	4.08	4.98	—	80,016	80,016	1.62	7.97	133	82,565
Area	7.68	53.6	0.36	43.2	< 0.005	0.06	—	0.06	0.08	—	0.08	—	178	178	0.01	< 0.005	—	178
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,876	4,761	91.0	2.18	—	7,686
Waste	—	—	—	—	—	—	—	—	—	—	—	1,020	0.00	1,020	102	0.00	—	3,570
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	1.37	1.24	5.42	3.17	0.01	0.18	—	0.18	0.18	—	0.18	—	636	636	0.03	< 0.005	—	638
Total	26.5	70.3	73.6	227	0.78	1.18	20.8	22.0	1.16	4.08	5.24	1,905	88,893	90,798	195	10.2	133	98,840
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.18	2.82	12.4	33.0	0.14	0.17	3.80	3.97	0.16	0.74	0.91	—	13,247	13,247	0.27	1.32	22.0	13,669
Area	1.40	9.78	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	693	693	0.04	0.01	—	696
Water	—	—	—	—	—	—	—	—	—	—	—	146	642	788	15.1	0.36	—	1,273
Waste	—	—	—	—	—	—	—	—	—	—	—	169	0.00	169	16.9	0.00	—	591
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Stationary	0.25	0.23	0.99	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106
Total	4.83	12.8	13.4	41.4	0.14	0.22	3.80	4.01	0.21	0.74	0.96	315	14,717	15,033	32.3	1.69	22.0	16,364

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18.6	16.6	63.0	218	0.80	0.94	20.8	21.7	0.90	4.08	4.98	—	82,877	82,877	1.56	7.86	307	85,564

Area	15.6	60.9	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,875	4,759	91.0	2.18	—	7,684
Waste	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	893
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	0.00	0.00	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	34.2	77.5	63.8	305	0.81	1.06	20.8	21.9	1.05	4.08	5.13	1,140	91,298	92,438	118	10.1	307	98,705
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.3	15.3	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	—	79,172	79,172	1.60	7.95	7.97	81,588
Area	—	46.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,875	4,759	91.0	2.18	—	7,684
Waste	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	893
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	0.00	0.00	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	17.3	61.8	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	1,140	87,233	88,373	118	10.2	8.16	94,368
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.4	15.5	67.8	181	0.77	0.94	20.8	21.7	0.90	4.08	4.98	—	80,016	80,016	1.62	7.97	133	82,565
Area	7.68	53.6	0.36	43.2	< 0.005	0.06	—	0.06	0.08	—	0.08	—	178	178	0.01	< 0.005	—	178
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,187	4,187	0.26	0.03	—	4,202
Water	—	—	—	—	—	—	—	—	—	—	—	885	3,875	4,759	91.0	2.18	—	7,684
Waste	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	893
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Stationary	1.37	1.24	5.42	3.17	0.01	0.18	—	0.18	0.18	—	0.18	—	636	636	0.03	< 0.005	—	638

Total	26.5	70.3	73.6	227	0.78	1.18	20.8	22.0	1.16	4.08	5.24	1,140	88,891	90,031	118	10.2	133	96,161
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.18	2.82	12.4	33.0	0.14	0.17	3.80	3.97	0.16	0.74	0.91	—	13,247	13,247	0.27	1.32	22.0	13,669
Area	1.40	9.78	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	693	693	0.04	0.01	—	696
Water	—	—	—	—	—	—	—	—	—	—	—	146	641	788	15.1	0.36	—	1,272
Waste	—	—	—	—	—	—	—	—	—	—	—	42.2	0.00	42.2	4.22	0.00	—	148
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Stationary	0.25	0.23	0.99	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106
Total	4.83	12.8	13.4	41.4	0.14	0.22	3.80	4.01	0.21	0.74	0.96	189	14,717	14,906	19.6	1.69	22.0	15,921

3. Construction Emissions Details

3.1. Grading (2023) - Unmitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movemen	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—

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-Road Equipment	0.53	0.44	4.45	3.75	0.01	0.19	—	0.19	0.18	—	0.18	—	788	788	0.03	0.01	—	790
Dust From Material Movemen	—	—	—	—	—	—	0.29	0.29	—	0.11	0.11	—	—	—	—	—	—	—
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-Road Equipment	0.10	0.08	0.81	0.68	< 0.005	0.03	—	0.03	0.03	—	0.03	—	130	130	0.01	< 0.005	—	131
Dust From Material Movemen	—	—	—	—	—	—	0.05	0.05	—	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	0.13	0.11	0.15	1.53	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	266	266	0.01	0.01	0.03	270
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	0.01	0.50	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	468	468	< 0.005	0.07	0.03	490
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.7	32.7	< 0.005	< 0.005	0.07	33.2

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	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	55.8	55.8	< 0.005	0.01	0.05	58.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.42	5.42	< 0.005	< 0.005	0.01	5.49
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.24	9.24	< 0.005	< 0.005	0.01	9.68

3.2. Grading (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	4.43	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movemen	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
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-Road Equipment	0.53	0.44	4.45	3.75	0.01	0.19	—	0.19	0.18	—	0.18	—	788	788	0.03	0.01	—	790

Dust From Material Movemen	—	—	—	—	—	—	0.29	0.29	—	0.11	0.11	—	—	—	—	—	—	—
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-Road Equipment	0.10	0.08	0.81	0.68	< 0.005	0.03	—	0.03	0.03	—	0.03	—	130	130	0.01	< 0.005	—	131
Dust From Material Movemen	—	—	—	—	—	—	0.05	0.05	—	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	0.13	0.11	0.15	1.53	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	266	266	0.01	0.01	0.03	270
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	0.01	0.50	0.12	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	468	468	< 0.005	0.07	0.03	490
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	32.7	32.7	< 0.005	< 0.005	0.07	33.2
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	0.06	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	55.8	55.8	< 0.005	0.01	0.05	58.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.42	5.42	< 0.005	< 0.005	0.01	5.49
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.24	9.24	< 0.005	< 0.005	0.01	9.68

3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movemen	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
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-Road Equipment	0.25	0.21	2.08	1.83	< 0.005	0.09	—	0.09	0.08	—	0.08	—	400	400	0.02	< 0.005	—	402
Dust From Material Movemen	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
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-Road Equipment	0.05	0.04	0.38	0.33	< 0.005	0.02	—	0.02	0.01	—	0.01	—	66.3	66.3	< 0.005	< 0.005	—	66.5

Dust From Material Movemen	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
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	0.12	0.11	0.13	1.44	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
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	0.01	0.49	0.11	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	460	460	< 0.005	0.07	0.03	481
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.03	16.6
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	—	27.9	27.9	< 0.005	< 0.005	0.03	29.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	0.01	2.75
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.84

3.4. Grading (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movemen	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
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-Road Equipment	0.25	0.21	2.08	1.83	< 0.005	0.09	—	0.09	0.08	—	0.08	—	400	400	0.02	< 0.005	—	402
Dust From Material Movemen	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
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-Road Equipment	0.05	0.04	0.38	0.33	< 0.005	0.02	—	0.02	0.01	—	0.01	—	66.3	66.3	< 0.005	< 0.005	—	66.5
Dust From Material Movemen	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
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	0.12	0.11	0.13	1.44	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
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	0.01	0.49	0.11	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	460	460	< 0.005	0.07	0.03	481
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.03	16.6
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	—	27.9	27.9	< 0.005	< 0.005	0.03	29.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	0.01	2.75
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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.84

3.5. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	0.96	0.80	7.51	8.78	0.02	0.33	—	0.33	0.31	—	0.31	—	1,605	1,605	0.07	0.01	—	1,610
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-Road Equipment	0.18	0.15	1.37	1.60	< 0.005	0.06	—	0.06	0.06	—	0.06	—	266	266	0.01	< 0.005	—	267
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	5.76	5.00	5.15	88.8	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	12,359	12,359	0.53	0.42	52.3	12,548
Vendor	0.38	0.35	10.6	4.12	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	10,078	10,078	0.01	1.48	28.9	10,547
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	4.97	4.52	5.54	60.3	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	10,979	10,979	0.56	0.42	1.36	11,119
Vendor	0.35	0.32	11.2	4.24	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	10,088	10,088	0.01	1.48	0.75	10,529
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	3.34	3.05	3.95	45.1	0.00	0.00	7.27	7.27	0.00	1.70	1.70	—	7,561	7,561	0.38	0.28	15.2	7,668
Vendor	0.24	0.22	7.49	2.80	0.05	0.10	1.88	1.98	0.10	0.52	0.62	—	6,748	6,748	0.01	0.99	8.32	7,051
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	0.61	0.56	0.72	8.24	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,252	1,252	0.06	0.05	2.51	1,270
Vendor	0.04	0.04	1.37	0.51	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,117	1,117	< 0.005	0.16	1.38	1,167
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

3.6. Building Construction (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	0.96	0.80	7.51	8.78	0.02	0.33	—	0.33	0.31	—	0.31	—	1,605	1,605	0.07	0.01	—	1,610

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-Road Equipment	0.18	0.15	1.37	1.60	< 0.005	0.06	—	0.06	0.06	—	0.06	—	266	266	0.01	< 0.005	—	267
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	5.76	5.00	5.15	88.8	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	12,359	12,359	0.53	0.42	52.3	12,548
Vendor	0.38	0.35	10.6	4.12	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	10,078	10,078	0.01	1.48	28.9	10,547
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	4.97	4.52	5.54	60.3	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	10,979	10,979	0.56	0.42	1.36	11,119
Vendor	0.35	0.32	11.2	4.24	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	10,088	10,088	0.01	1.48	0.75	10,529
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	3.34	3.05	3.95	45.1	0.00	0.00	7.27	7.27	0.00	1.70	1.70	—	7,561	7,561	0.38	0.28	15.2	7,668
Vendor	0.24	0.22	7.49	2.80	0.05	0.10	1.88	1.98	0.10	0.52	0.62	—	6,748	6,748	0.01	0.99	8.32	7,051
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	0.61	0.56	0.72	8.24	0.00	0.00	1.33	1.33	0.00	0.31	0.31	—	1,252	1,252	0.06	0.05	2.51	1,270
Vendor	0.04	0.04	1.37	0.51	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,117	1,117	< 0.005	0.16	1.38	1,167
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

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	0.80	0.67	6.21	7.76	0.01	0.26	—	0.26	0.24	—	0.24	—	1,426	1,426	0.06	0.01	—	1,431
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-Road Equipment	0.15	0.12	1.13	1.42	< 0.005	0.05	—	0.05	0.04	—	0.04	—	236	236	0.01	< 0.005	—	237
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	5.23	4.81	4.77	83.2	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	12,124	12,124	0.51	0.42	48.8	12,309
Vendor	0.37	0.35	10.1	3.87	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	9,907	9,907	0.01	1.40	28.8	10,352
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	4.79	4.35	5.17	56.3	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	10,775	10,775	0.55	0.42	1.27	10,914
Vendor	0.35	0.32	10.7	3.99	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	9,917	9,917	0.01	1.40	0.75	10,336
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	2.88	2.62	3.29	37.5	0.00	0.00	6.46	6.46	0.00	1.51	1.51	—	6,595	6,595	0.32	0.25	12.6	6,689
Vendor	0.21	0.20	6.33	2.35	0.05	0.09	1.67	1.76	0.09	0.46	0.55	—	5,896	5,896	0.01	0.83	7.39	6,153
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	0.53	0.48	0.60	6.85	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,092	1,092	0.05	0.04	2.08	1,107
Vendor	0.04	0.04	1.16	0.43	0.01	0.02	0.30	0.32	0.02	0.08	0.10	—	976	976	< 0.005	0.14	1.22	1,019
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

3.8. Building Construction (2025) - Mitigated

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

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

Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
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-Road Equipment	0.80	0.67	6.21	7.76	0.01	0.26	—	0.26	0.24	—	0.24	—	1,426	1,426	0.06	0.01	—	1,431
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-Road Equipment	0.15	0.12	1.13	1.42	< 0.005	0.05	—	0.05	0.04	—	0.04	—	236	236	0.01	< 0.005	—	237
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	5.23	4.81	4.77	83.2	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	12,124	12,124	0.51	0.42	48.8	12,309
Vendor	0.37	0.35	10.1	3.87	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	9,907	9,907	0.01	1.40	28.8	10,352
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	4.79	4.35	5.17	56.3	0.00	0.00	11.0	11.0	0.00	2.57	2.57	—	10,775	10,775	0.55	0.42	1.27	10,914

Vendor	0.35	0.32	10.7	3.99	0.08	0.15	2.83	2.97	0.15	0.78	0.93	—	9,917	9,917	0.01	1.40	0.75	10,336
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	2.88	2.62	3.29	37.5	0.00	0.00	6.46	6.46	0.00	1.51	1.51	—	6,595	6,595	0.32	0.25	12.6	6,689
Vendor	0.21	0.20	6.33	2.35	0.05	0.09	1.67	1.76	0.09	0.46	0.55	—	5,896	5,896	0.01	0.83	7.39	6,153
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	0.53	0.48	0.60	6.85	0.00	0.00	1.18	1.18	0.00	0.28	0.28	—	1,092	1,092	0.05	0.04	2.08	1,107
Vendor	0.04	0.04	1.16	0.43	0.01	0.02	0.30	0.32	0.02	0.08	0.10	—	976	976	< 0.005	0.14	1.22	1,019
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. Paving (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.12	0.10	0.94	1.21	< 0.005	0.05	—	0.05	0.04	—	0.04	—	182	182	0.01	< 0.005	—	183
Paving	—	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.02	0.02	0.17	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.2	30.2	< 0.005	< 0.005	—	30.3
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.09	1.59	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	221	221	0.01	0.01	0.94	225
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	0.01	0.01	0.01	0.15	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.4	24.4	< 0.005	< 0.005	0.05	24.7
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	0.01	4.09
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

3.10. Paving (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.12	0.10	0.94	1.21	< 0.005	0.05	—	0.05	0.04	—	0.04	—	182	182	0.01	< 0.005	—	183
Paving	—	0.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.02	0.02	0.17	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.2	30.2	< 0.005	< 0.005	—	30.3
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.09	1.59	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	221	221	0.01	0.01	0.94	225
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	0.01	0.01	0.01	0.15	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.4	24.4	< 0.005	< 0.005	0.05	24.7
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	0.01	4.09
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

3.11. Architectural Coating (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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-Road Equipment	0.03	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Architectural Coatings	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.98	3.98	< 0.005	< 0.005	—	3.99
Architectural Coatings	—	2.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.99	0.90	1.11	12.1	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,196	2,196	0.11	0.08	0.27	2,224
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	0.18	0.16	0.21	2.43	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	407	407	0.02	0.01	0.82	413
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	0.03	0.03	0.04	0.44	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.3	67.3	< 0.005	< 0.005	0.14	68.3
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

3.12. Architectural Coating (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	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-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.03	0.02	0.16	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Architectural Coatings	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.98	3.98	< 0.005	< 0.005	—	3.99
Architectural Coatings	—	2.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.99	0.90	1.11	12.1	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,196	2,196	0.11	0.08	0.27	2,224
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	0.18	0.16	0.21	2.43	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	407	407	0.02	0.01	0.82	413
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	0.03	0.03	0.04	0.44	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.3	67.3	< 0.005	< 0.005	0.14	68.3
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. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.03	0.02	0.16	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Architectural Coatings	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.98	3.98	< 0.005	< 0.005	—	3.99

Architect Coatings	—	2.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.05	0.96	0.95	16.6	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,425	2,425	0.10	0.08	9.77	2,462
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.87	1.03	11.3	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,155	2,155	0.11	0.08	0.25	2,183
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	0.17	0.16	0.20	2.27	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	399	399	0.02	0.01	0.76	405
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	0.03	0.03	0.04	0.41	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.1	66.1	< 0.005	< 0.005	0.13	67.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2025) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	90.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.03	0.02	0.16	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Architectural Coatings	—	16.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.98	3.98	< 0.005	< 0.005	—	3.99

Architectural Coatings	—	2.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.05	0.96	0.95	16.6	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,425	2,425	0.10	0.08	9.77	2,462
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.87	1.03	11.3	0.00	0.00	2.19	2.19	0.00	0.51	0.51	—	2,155	2,155	0.11	0.08	0.25	2,183
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	0.17	0.16	0.20	2.27	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	399	399	0.02	0.01	0.76	405
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	0.03	0.03	0.04	0.41	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.1	66.1	< 0.005	< 0.005	0.13	67.0
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	0.00	0.00	0.00	0.00	0.00	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. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.9	12.4	58.1	167	0.70	0.87	17.3	18.2	0.83	3.46	4.29	—	72,351	72,351	1.18	7.43	263	74,858
General Office Building	4.68	4.23	4.88	50.7	0.10	0.07	3.49	3.57	0.07	0.62	0.69	—	10,526	10,526	0.38	0.42	44.1	10,706
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	18.6	16.6	63.0	218	0.80	0.94	20.8	21.7	0.90	4.08	4.98	—	82,877	82,877	1.56	7.86	307	85,564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.0	11.5	61.8	129	0.67	0.87	17.3	18.2	0.83	3.46	4.29	—	69,573	69,573	1.21	7.50	6.82	71,845
General Office Building	4.23	3.78	5.33	38.2	0.09	0.07	3.49	3.57	0.07	0.62	0.69	—	9,599	9,599	0.39	0.45	1.14	9,743

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	17.3	15.3	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	—	79,172	79,172	1.60	7.95	7.97	81,588
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.40	2.13	11.4	25.4	0.12	0.16	3.16	3.32	0.15	0.63	0.78	—	11,623	11,623	0.20	1.25	18.8	12,018
General Office Building	0.78	0.70	1.00	7.58	0.02	0.01	0.64	0.65	0.01	0.11	0.13	—	1,625	1,625	0.07	0.07	3.15	1,652
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	3.18	2.82	12.4	33.0	0.14	0.17	3.80	3.97	0.16	0.74	0.91	—	13,247	13,247	0.27	1.32	22.0	13,669

4.1.2. Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.9	12.4	58.1	167	0.70	0.87	17.3	18.2	0.83	3.46	4.29	—	72,351	72,351	1.18	7.43	263	74,858

General Office Building	4.68	4.23	4.88	50.7	0.10	0.07	3.49	3.57	0.07	0.62	0.69	—	10,526	10,526	0.38	0.42	44.1	10,706
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	18.6	16.6	63.0	218	0.80	0.94	20.8	21.7	0.90	4.08	4.98	—	82,877	82,877	1.56	7.86	307	85,564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	13.0	11.5	61.8	129	0.67	0.87	17.3	18.2	0.83	3.46	4.29	—	69,573	69,573	1.21	7.50	6.82	71,845
General Office Building	4.23	3.78	5.33	38.2	0.09	0.07	3.49	3.57	0.07	0.62	0.69	—	9,599	9,599	0.39	0.45	1.14	9,743
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	17.3	15.3	67.1	167	0.76	0.94	20.8	21.7	0.90	4.08	4.98	—	79,172	79,172	1.60	7.95	7.97	81,588
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	2.40	2.13	11.4	25.4	0.12	0.16	3.16	3.32	0.15	0.63	0.78	—	11,623	11,623	0.20	1.25	18.8	12,018
General Office Building	0.78	0.70	1.00	7.58	0.02	0.01	0.64	0.65	0.01	0.11	0.13	—	1,625	1,625	0.07	0.07	3.15	1,652

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	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	3.18	2.82	12.4	33.0	0.14	0.17	3.80	3.97	0.16	0.74	0.91	—	13,247	13,247	0.27	1.32	22.0	13,669

4.2. Energy

4.2.1. Electricity Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.05	0.01	—	876
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,078	2,078	0.13	0.02	—	2,086
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,236	1,236	0.08	0.01	—	1,240
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,187	4,187	0.26	0.03	—	4,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.05	0.01	—	876
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,078	2,078	0.13	0.02	—	2,086
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,236	1,236	0.08	0.01	—	1,240
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,187	4,187	0.26	0.03	—	4,202
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	145
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	344	344	0.02	< 0.005	—	345
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	205	205	0.01	< 0.005	—	205
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	693	693	0.04	0.01	—	696

4.2.2. Electricity Emissions By Land Use - Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.05	0.01	—	876
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,078	2,078	0.13	0.02	—	2,086
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,236	1,236	0.08	0.01	—	1,240
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,187	4,187	0.26	0.03	—	4,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.05	0.01	—	876
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,078	2,078	0.13	0.02	—	2,086
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,236	1,236	0.08	0.01	—	1,240
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,187	4,187	0.26	0.03	—	4,202
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	145

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	344	344	0.02	< 0.005	—	345
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	205	205	0.01	< 0.005	—	205
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	693	693	0.04	0.01	—	696

4.2.3. Natural Gas Emissions By Land Use - 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	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

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	43.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	3.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	15.6	14.4	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Total	15.6	60.9	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	—	43.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	46.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	7.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	1.40	1.29	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5
Total	1.40	9.78	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5

4.3.1. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	43.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	3.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	15.6	14.4	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Total	15.6	60.9	0.74	87.6	0.01	0.12	—	0.12	0.16	—	0.16	—	360	360	0.02	< 0.005	—	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	43.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	3.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	46.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	7.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.40	1.29	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5
Total	1.40	9.78	0.07	7.89	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.4	29.4	< 0.005	< 0.005	—	29.5

4.4. Water Emissions by Land Use

4.4.2. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	857	3,755	4,613	88.2	2.12	—	7,448
General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.2	119	147	2.80	0.07	—	237
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	1.68	1.68	< 0.005	< 0.005	—	1.69
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	885	3,876	4,761	91.0	2.18	—	7,686
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	857	3,755	4,613	88.2	2.12	—	7,448
General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.2	119	147	2.80	0.07	—	237
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	1.68	1.68	< 0.005	< 0.005	—	1.69
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	885	3,876	4,761	91.0	2.18	—	7,686
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	142	622	764	14.6	0.35	—	1,233
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.51	19.8	24.3	0.46	0.01	—	39.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.28	0.28	< 0.005	< 0.005	—	0.28
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	642	788	15.1	0.36	—	1,273

4.4.1. Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	857	3,755	4,613	88.2	2.12	—	7,448
General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.2	119	147	2.80	0.07	—	237
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	-0.17	-0.17	> -0.005	> -0.005	—	-0.17
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	885	3,875	4,759	91.0	2.18	—	7,684

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	857	3,755	4,613	88.2	2.12	—	7,448
General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.2	119	147	2.80	0.07	—	237
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	-0.17	-0.17	> -0.005	> -0.005	—	-0.17
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	885	3,875	4,759	91.0	2.18	—	7,684
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	142	622	764	14.6	0.35	—	1,233
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.51	19.8	24.3	0.46	0.01	—	39.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	-0.03	-0.03	> -0.005	> -0.005	—	-0.03
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	146	641	788	15.1	0.36	—	1,272

4.5. Waste Emissions by Land Use

4.5.2. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	980	0.00	980	98.0	0.00	—	3,430
General Office Building	—	—	—	—	—	—	—	—	—	—	—	40.1	0.00	40.1	4.01	0.00	—	140
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,020	0.00	1,020	102	0.00	—	3,570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	980	0.00	980	98.0	0.00	—	3,430
General Office Building	—	—	—	—	—	—	—	—	—	—	—	40.1	0.00	40.1	4.01	0.00	—	140
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,020	0.00	1,020	102	0.00	—	3,570
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	162	0.00	162	16.2	0.00	—	568
General Office Building	—	—	—	—	—	—	—	—	—	—	—	6.64	0.00	6.64	0.66	0.00	—	23.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	169	0.00	169	16.9	0.00	—	591

4.5.1. Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
General Office Building	—	—	—	—	—	—	—	—	—	—	—	10.0	0.00	10.0	1.00	0.00	—	35.1

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	893
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
General Office Building	—	—	—	—	—	—	—	—	—	—	—	10.0	0.00	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	255	0.00	255	25.5	0.00	—	893
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.66	0.00	1.66	0.17	0.00	—	5.81
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	42.2	0.00	42.2	4.22	0.00	—	148

4.6. Refrigerant Emissions by Land Use

4.6.1. 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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

4.6.2. Mitigated

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	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.19
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

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)

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fire Pump	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fire Pump	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.23	0.21	0.94	0.54	< 0.005	0.03	—	0.03	0.03	—	0.03	—	98.0	98.0	< 0.005	< 0.005	—	98.4
Fire Pump	0.02	0.02	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.31	7.31	< 0.005	< 0.005	—	7.34
Total	0.25	0.23	0.99	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106

4.8.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fire Pump	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fire Pump	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.23	0.21	0.94	0.54	< 0.005	0.03	—	0.03	0.03	—	0.03	—	98.0	98.0	< 0.005	< 0.005	—	98.4
Fire Pump	0.02	0.02	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.31	7.31	< 0.005	< 0.005	—	7.34
Total	0.25	0.23	0.99	0.58	< 0.005	0.03	—	0.03	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106

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)

Equipment Type	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	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

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

Vegetation	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. 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	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	TOG	ROG	NOx	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	CO	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Grading	Grading	11/1/2023	1/31/2024	5.00	66.0	—
Building Construction	Building Construction	1/25/2024	10/31/2025	5.00	462	—
Paving	Paving	6/1/2024	8/1/2024	5.00	44.0	—
Architectural Coating	Architectural Coating	10/1/2024	4/2/2025	5.00	132	—

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

Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29

Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	6.82	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	838	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	330	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	6.82	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	838	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	330	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	168	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	3,022,608	1,007,536	65,445

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)
Grading	3,600	—	198	0.00	—
Paving	0.00	0.00	0.00	0.00	25.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt

Unrefrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	19.3	100%
Other Asphalt Surfaces	2.82	100%
Parking Lot	2.94	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	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
Unrefrigerated Warehouse-No Rail	2,738	2,738	2,738	999,370	52,971	52,971	52,971	19,334,320
General Office Building	650	650	650	237,250	12,575	12,575	12,575	4,589,959
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Unrefrigerated Warehouse-No Rail	2,738	2,738	2,738	999,370	52,971	52,971	52,971	19,334,320
General Office Building	650	650	650	237,250	12,575	12,575	12,575	4,589,959
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	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

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,022,608	1,007,536	65,445

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Unrefrigerated Warehouse-No Rail	599,086	532	0.0330	0.0040	0.00
General Office Building	1,425,623	532	0.0330	0.0040	0.00
Parking Lot	735,621	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Parking Lot	112,128	532	0.0330	0.0040	0.00

5.11.2. Mitigated

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)
Unrefrigerated Warehouse-No Rail	599,086	532	0.0330	0.0040	0.00
General Office Building	1,425,623	532	0.0330	0.0040	0.00
Parking Lot	735,621	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Parking Lot	112,128	532	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)
Unrefrigerated Warehouse-No Rail	447,485,400	0.00
General Office Building	14,218,700	0.00
Parking Lot	0.00	271,815
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	447,485,400	0.00
General Office Building	14,218,700	0.00
Parking Lot	0.00	122,339
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	-149,476

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	1818.97	0.00
General Office Building	74.40	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	454.74	0.00
General Office Building	18.60	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

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

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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
Emergency Generator	Diesel	4.00	0.00	24.0	2,682	0.73
Fire Pump	Diesel	2.00	0.00	24.0	400	0.73

5.16.2. Process Boilers

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

5.18.1.2. Mitigated

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	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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	35.5	annual days of extreme heat
Extreme Precipitation	1.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	88.7
AQ-PM	5.81
AQ-DPM	4.06
Drinking Water	85.4
Lead Risk Housing	21.0
Pesticides	38.2
Toxic Releases	69.3
Traffic	8.11
Effect Indicators	—

CleanUp Sites	78.1
Groundwater	2.11
Haz Waste Facilities/Generators	88.6
Impaired Water Bodies	0.00
Solid Waste	75.7
Sensitive Population	—
Asthma	74.6
Cardio-vascular	53.5
Low Birth Weights	13.2
Socioeconomic Factor Indicators	—
Education	42.3
Housing	38.1
Linguistic	32.0
Poverty	61.8
Unemployment	26.9

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	—
Above Poverty	67.56063134
Employed	13.29398178
Median HI	45.83600667
Education	—
Bachelor's or higher	38.31643783
High school enrollment	100
Preschool enrollment	48.45374054

Transportation	—
Auto Access	66.18760426
Active commuting	14.50019248
Social	—
2-parent households	65.622995
Voting	65.36635442
Neighborhood	—
Alcohol availability	88.70781471
Park access	23.43128449
Retail density	4.080585141
Supermarket access	30.32208392
Tree canopy	85.67945592
Housing	—
Homeownership	75.37533684
Housing habitability	76.05543436
Low-inc homeowner severe housing cost burden	38.73989478
Low-inc renter severe housing cost burden	63.54420634
Uncrowded housing	83.16437829
Health Outcomes	—
Insured adults	61.15744899
Arthritis	73.2
Asthma ER Admissions	41.1
High Blood Pressure	77.3
Cancer (excluding skin)	55.0
Asthma	43.1
Coronary Heart Disease	72.1
Chronic Obstructive Pulmonary Disease	62.6

Diagnosed Diabetes	68.9
Life Expectancy at Birth	4.1
Cognitively Disabled	94.6
Physically Disabled	49.3
Heart Attack ER Admissions	35.9
Mental Health Not Good	46.4
Chronic Kidney Disease	79.8
Obesity	42.9
Pedestrian Injuries	90.4
Physical Health Not Good	57.2
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	11.9
Current Smoker	43.1
No Leisure Time for Physical Activity	66.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	25.8
English Speaking	89.3
Foreign-born	8.1
Outdoor Workers	46.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.4
Traffic Density	4.7
Traffic Access	23.0

Other Indices	—
Hardship	48.4
Other Decision Support	—
2016 Voting	51.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	49.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
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.
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.

7.4. Health & Equity Measures

Measure Title	Co-Benefits Achieved
IC-2: Adopt Design Standards	Improved Air Quality, Social Equity

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

Screen	Justification
Construction: Construction Phases	Per construction questionnaire provided by project applicant

Construction: Architectural Coatings	—
Operations: Fleet Mix	Per VMT Study dated April 12, 2023
Operations: Architectural Coatings	Project would comply with AVAQMD Rule 1113
Operations: Energy Use	No natural gas use per operation questionnaire provided by project applicant
Operations: Vehicle Data	Per VMT Study dated April 12, 2023
Operations: Emergency Generators and Fire Pumps	Per operational questionnaire, two (2) 2,000kW diesel generators per building and one (1) 2,000gpm Firewater Pump per building for ESFR fire suppression system. Assuming 24 hours per year of operation for regular maintenance and/or emergency purposes.

APPENDIX F

2045 Climate Action Plan Consistency Review Checklist

Purpose

The *2045 Los Angeles County Climate Action Plan* (2045 CAP) helps the County of Los Angeles (County) comply with various local, regional, state, and federal regulations to significantly reduce greenhouse gas (GHG) emissions. The County is obligated under the California Environmental Quality Act (CEQA), Assembly Bill (AB) 32 (the California Global Warming Solutions Act of 2006), Senate Bill (SB) 375 (the Sustainable Communities and Climate Protection Act of 2008), and various California executive orders to do its part to reduce GHG emissions in the state. Generally, statewide targets aim to reduce emissions to 1990 levels by 2020 (AB 32), to 40 percent below 1990 levels by 2030 (SB 32), and to 85 percent (anthropogenic) below 1990 levels by 2045 (AB 1279). CEQA Guidelines Section 15183.5 allows public agencies to analyze and mitigate GHG emissions as part of a larger plan for the reduction of GHGs. The 2045 CAP itself, the 2045 CAP Consistency Review Checklist (this document), and the certified Final Program Environmental Impact Report (PEIR) (State Clearinghouse #2021120568) for the 2045 CAP together meet all requirements of Section 15183.5(b) of the CEQA Guidelines. Accordingly, the 2045 CAP represents the County's qualified climate action plan (CAP) in compliance with CEQA.

The 2045 CAP includes 10 strategies, 25 measures, and almost 90 actions that shall be implemented by the County to achieve its proportional share of state GHG emissions reductions for the target year 2030. These strategies, measures, and actions are organized into four sectors: (1) transportation; (2) stationary energy; (3) waste (including wastewater); and (4) agriculture, forestry, and other land use (AFOLU). The 2045 CAP does not include any strategies, measures, or actions to reduce emissions from the fifth sector of the County's GHG inventory, industrial processes and product use (IPPU), given data and modeling limitations for this sector.

The 2045 Climate Action Plan Consistency Review Checklist (referred to herein as the *2045 CAP Checklist*) applies to **discretionary projects that are subject to and not exempt from CEQA, including both new projects and expansion of existing land uses, and including agency and public projects** (referred to herein as *projects*). The purpose of the 2045 CAP Checklist is to:

(1) Implement relevant GHG emissions reduction actions from the 2045 CAP for projects.

(2) Provide a streamlined review process for analyzing the impacts of GHG emissions resulting from proposed projects that are subject to CEQA.

The 2045 CAP Checklist may be updated to incorporate new GHG emissions reduction techniques or to comply with later amendments to the 2045 CAP or local, state, or federal law without the need for an amendment to the *Los Angeles County General Plan 2035* (General Plan).

Appendix F Organization

This appendix is organized into the following four sections:

Section F.1: CEQA Compliance and Background Information

This section describes the rationale for the checklist and explains how it provides the mechanism for projects that wish to streamline environmental review of their GHG impacts using the 2045 CAP's PEIR pursuant to CEQA Guidelines Section 15183.5(b).

Section F.2: Checklist Instructions

This section includes the submittal requirements for applicants, the applicability of the 2045 CAP Checklist, and instructions for completing the 2045 CAP Checklist.

Section F.3: 2045 CAP Checklist

This section includes the 2045 CAP Checklist itself along with a table for reporting and documenting alternative project emissions reduction measures and additional GHG reductions.

Section F.4: Offsite GHG Reduction Program Framework

This section includes a framework for the County's forthcoming Offsite GHG Reduction Program. This program will be available for project applicants to use as an alternative GHG reduction measure to the required 2045 CAP Checklist items, by allowing applicants to fund or implement local projects that reduce GHG emissions within unincorporated Los Angeles County.

F.1 CEQA Compliance and Background Information

The 2045 CAP's GHG reductions will occur through a combination of County initiatives, as represented by various plans and policies that will provide reductions from both new developments and the expansion of existing developments. The 2045 CAP Checklist specifically applies to proposed discretionary projects that require environmental review pursuant to CEQA. Therefore, the 2045 CAP Checklist is a critical implementation tool in the County's overall strategy to reduce GHG emissions. Implementing applicable 2045 CAP measures and actions in new developments and expanding existing development projects will help the County achieve incremental reductions toward its 2030, 2035, and 2045 targets.

The growth projections outlined in the General Plan's Land Use Element were used in the 2045 CAP to estimate unincorporated Los Angeles County's future emissions. Therefore, projects can use the 2045 CAP Checklist if they are consistent with the Land Use Element. This consistency allows a project to streamline its analysis of GHG impacts by using the existing programmatic environmental review contained in the certified Final PEIR for the 2045 CAP. In doing so, pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to climate change resulting from the project's GHG emissions may be determined not to be cumulatively considerable. This approach is consistent with the recommendations of the California Air Resources Board (CARB) in the *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan) that "CEQA-qualified CAPs" can allow eligible projects to streamline their determination of significance for GHG emissions.[1] It is also consistent with the Association of Environmental Professionals Climate Change Committee's best practices for tiering from qualified GHG reduction plans that demonstrate substantial progress toward meeting the next milestone statewide planning reduction target (i.e., a 40 percent reduction below 1990 levels by 2030 as set forth by SB 32).[2]

This 2045 CAP Checklist provides a mechanism for projects to specifically identify "those requirements specified in the plan that apply to the project, and, if those requirements are not otherwise binding and enforceable, incorporate those requirements as mitigation measures applicable to the project" per Section 15183.5(b)(2) of the CEQA Guidelines.

GHG emissions associated with the construction of projects, including demolition and decommissioning activities, are generally orders of magnitude lower than operational GHG emissions. This is primarily because construction emissions are typically short in duration compared to the project's overall lifetime. Typically, construction GHG emissions are amortized over 30 years and added to a project's 30-year lifetime emissions total; after this amortization, construction GHG emissions usually represent a small fraction of a project's total annual emissions. It is generally difficult to enforce low-emission construction equipment because of the limited availability of zero-emission and near-zero-emission construction equipment, along with contracting requirements. In addition, the 2045 CAP quantifies GHG emissions from off-road construction activity at the unincorporated Los Angeles County level; these emissions are accounted for in the 2045 CAP's ability to achieve the 2030, 2035, and 2045 targets.

The 2045 CAP Checklist also requires the use of electric and zero-emission construction equipment during project construction to the maximum extent feasible, to align with Measure T9. Therefore, construction emissions can be assessed qualitatively as part of related CEQA GHG emissions analysis. However, some projects may have long construction periods or entail substantial excavation and grading that could result in construction-related GHG emissions that may be considered significant. Thus, the County retains the discretion on a project-by-project basis to consider whether a project's construction-related GHG emissions could be cumulatively considerable and require a more detailed quantitative CEQA analysis and mitigation of GHG emissions.

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1 California Air Resources Board. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* Appendix D, "Local Actions." November 16, 2022. Available: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed in January 2023.

2 Association of Environmental Professionals. 2016. *Final White Paper Beyond 2020 and Newhall: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California.* October 18, 2016. Available: https://califaep.org/docs/AEP-2016_Final_White_Paper.pdf.

Projects that are not consistent with the 2045 CAP must prepare a comprehensive project-specific analysis of GHG emissions. The analysis must quantify existing and projected GHG emissions and incorporate the measures in this 2045 CAP Checklist to the extent feasible, as defined by CEQA[3] and subject to the County's discretion. Cumulative GHG impacts may be significant for any project that is not consistent with the 2045 CAP per the CEQA Guidelines Appendix G Environmental Checklist.[4] The 2045 CAP Checklist may be updated to incorporate new GHG emissions reduction techniques or to comply with later amendments to the 2045 CAP or to local, state, or federal law.

2045 CAP Appendix B, *Emissions Forecasting and Reduction Methods*, provides the quantitative basis for the 2045 CAP consistency requirements. This document demonstrates how, based on substantial evidence,[5] implementing these requirements on a project-by-project basis will collectively achieve the 2045 CAP's target emissions level for projects by 2030 and 2035, as required by CEQA Guidelines Section 15183.5(b)(1)(D).

Alignment with the 2022 Scoping Plan

Appendix D of CARB's 2022 Scoping Plan provides guidance for local governments and lead agencies for how local climate action planning can support the State of California's climate goals.[6] CARB reiterates that a CAP that has been adopted through the CEQA review process and meets the criteria specified in CEQA Guidelines Section 15183.5(b) for a "plan for the reduction of greenhouse gas emissions"—such as the 2045 CAP—is a "CEQA-qualified CAP" that can allow eligible projects to streamline their determination of significance for GHG emissions.

Streamlining CEQA GHG analysis for future projects by demonstrating consistency with a CAP involves evaluating whether a project demonstrates consistency with "all applicable GHG reduction measures identified in the CAP." CARB notes that such consistency can be determined by using CAP compliance checklists, which can be "included as part of the proposed project's CEQA analysis documenting the project's consistency with the CEQA-qualified CAP."

The 2045 CAP Checklist is therefore consistent with CARB's guidance in the 2022 Scoping Plan as a valid way for discretionary projects to streamline their analysis of GHG impacts.

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3 CEQA Section 21061.1 defines *feasible* as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and technological factors."

4 CEQA Guidelines Appendix G Environmental Checklist Section VII. Greenhouse Gas Emissions states that a project would have a significant adverse environmental impact if it would "b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs." The 2045 CAP represents such an applicable plan adopted to reduce GHG emissions.

5 CEQA Guidelines Section 15384 defines *substantial evidence* as "enough relevant information and reasonable inferences from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached. Whether a fair argument can be made that the project may have a significant effect on the environment is to be determined by examining the whole record before the lead agency. Argument, speculation, unsubstantiated opinion or narrative, evidence which is clearly erroneous or inaccurate, or evidence of social or economic impacts which do not contribute to or are not caused by physical impacts on the environment does not constitute substantial evidence. Substantial evidence shall include facts, reasonable assumptions predicated upon facts, and expert opinion supported by facts."

6 California Air Resources Board. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* Appendix D, "Local Actions." November 16, 2022. Available: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed in January 2023.

Recommended Project Attributes for Residential and Mixed-Use Projects

Appendix D of the 2022 Scoping Plan includes a list of "key project attributes" for residential and mixed-use projects. CARB states that if a project incorporates these attributes, the project would "accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals" and would be "***clearly*** consistent with the State's climate goals." Further, such projects would be "consistent with the Scoping Plan or other plans, policies, or regulations adopted for the purposes of reducing GHGs" and that therefore, "the GHG emissions associated with such projects may result in a less-than-significant GHG impact under CEQA."

Alternative Project Emissions Reduction Measures and Offsite GHG Reduction Programs

As discussed below under *Step 4: Identify Alternative Project Emissions Reduction Measures and Additional GHG Reductions*, project applicants may employ alternative GHG emissions reduction measures to serve as replacements for any 2045 CAP consistency requirements not feasible to implement the project. Such replacement measures must meet specific criteria and be supported by substantial evidence that the measure would achieve the same or greater level of GHG emissions reductions as the 2045 CAP requirement that it replaces.

CARB supports the idea of "off-site GHG mitigation" in Appendix D of the 2022 Scoping Plan for projects that have maxed out their on-site GHG reduction actions: "If implementation of all feasible on-site GHG reduction measures is insufficient to reduce a project's impact to a less-than-significant level, the State recommends that the lead agency next explore options to fund or implement ***local***, off-site direct GHG reduction strategies."[7]

As discussed further below, Action ES5.4 of the 2045 CAP would establish an Offsite GHG Reduction Program for new development to use as a GHG reduction or mitigation pathway for 2045 CAP compliance and to fund programs for reducing GHG emissions in the built environment.

CARB cautions that such off-site measures must directly "offset" a project's GHG emissions and must not be unrelated off-site measures that would occur independently of the proposed project. Lead agencies and project applicants must provide substantial evidence that a specific off-site mitigation measure is not otherwise required by law or regulation and would not have occurred "***but for*** the requirement to mitigate a project's GHG impacts." CARB goes on to state the following:

> There has been concern that GHG emission reductions from off-site GHG mitigation measures… may double count GHG emission reductions from California's Cap-and-Trade program. However, off-site mitigation measures, such as EV [electric vehicle] charging or building efficiency retrofits, are viable options for mitigation under CEQA and would not be double counted, provided they are not otherwise required by law or regulation and would not have happened but for the mitigation requirements of the project. If the mitigation would have been implemented or required through another statute, regulation, existing local program, or requirement other than the project it is mitigating, then the project being mitigated may not also claim credit for the reductions.

[7] California Air Resources Board. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* Appendix D, "Local Actions." November 16, 2022. Available: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed in January 2023.

F.2 Checklist Instructions

2045 CAP Checklist Submittal Requirements

The 2045 CAP Checklist shall accompany the project application for all projects and plans proposed within unincorporated Los Angeles County's land use authority that are subject to CEQA, whether supported by private or government (local or state) funding. The 2045 CAP Checklist is designed to assist the project applicant in identifying the GHG emissions reduction actions and other applicable sustainability-focused requirements specific to a proposed project or plan. However, it may be necessary to supplement the completed 2045 CAP Checklist with supporting materials, calculations, or certifications to demonstrate compliance with the 2045 CAP actions and other applicable sustainability-focused requirements. The 2045 CAP Checklist shall be included in the respective project or plan conditions of approval.

2045 CAP Checklist Applicability

The 2045 CAP Checklist is required for discretionary projects that are subject to CEQA; the 2045 CAP Checklist does not apply to projects requiring a General Plan amendment. Ministerial projects and projects that otherwise are exempt from CEQA are deemed to be consistent with the 2045 CAP, and no further review is necessary, with the exception of the residential infill categorical exemption (CEQA Guidelines Section 15195), for which projects are required to demonstrate consistency with the 2045 CAP through the 2045 CAP Checklist. All projects must demonstrate consistency with the General Plan, the existing land use designation of the current Land Use Element, and the land use designations of the 2021–2029 Housing Element. **If a project is not consistent with the land use designation of the Land Use Element or the 2021–2029 Housing Element, then the 2045 CAP Checklist may not be used for CEQA streamlining.**

2045 CAP Checklist Instructions

Project applicants shall complete the following **four steps** to demonstrate conformance with the 2045 CAP for a proposed project.

Step 1. Demonstrate consistency with the Los Angeles County General Plan 2035 (**Table F-1**).

Step 2. Determine whether the project screens out of using the 2045 CAP Checklist (Table F-1).

Step 3. Demonstrate consistency with the 2045 CAP GHG emissions reduction measures and actions (Table F-1).

Step 4. Identify alternative project emissions reduction measures and additional GHG reductions (**Table F-2**), as needed.

All projects must complete ***Step 1:*** *Demonstrate Consistency with the Los Angeles County General Plan 2035* and ***Step 2:*** *Determine Whether the Project Screens Out of Using the 2045 CAP Checklist*. Projects that meet the screening criteria are finished using the checklist. Projects that do not meet the screening criteria must complete ***Step 3:*** *Demonstrate Consistency with the 2045 CAP GHG Emissions Reduction Measures and Actions*. Projects that cannot meet all CAP consistency requirements shown in Table F-1 must also complete ***Step 4:*** *Identify Alternative Project Emissions Reduction Measures and Additional GHG Reductions* (Table F-2) to describe

alternative GHG emissions reduction measures that serve as replacements to any 2045 CAP consistency requirements not met by the project.

The following process, illustrated in **Figure F-1**, explains how to demonstrate a plan's or project's consistency with the 2045 CAP's GHG emissions reduction measures and actions, and thereby streamline the plan's or project's GHG impacts analysis by using the certified Final PEIR for the 2045 CAP.

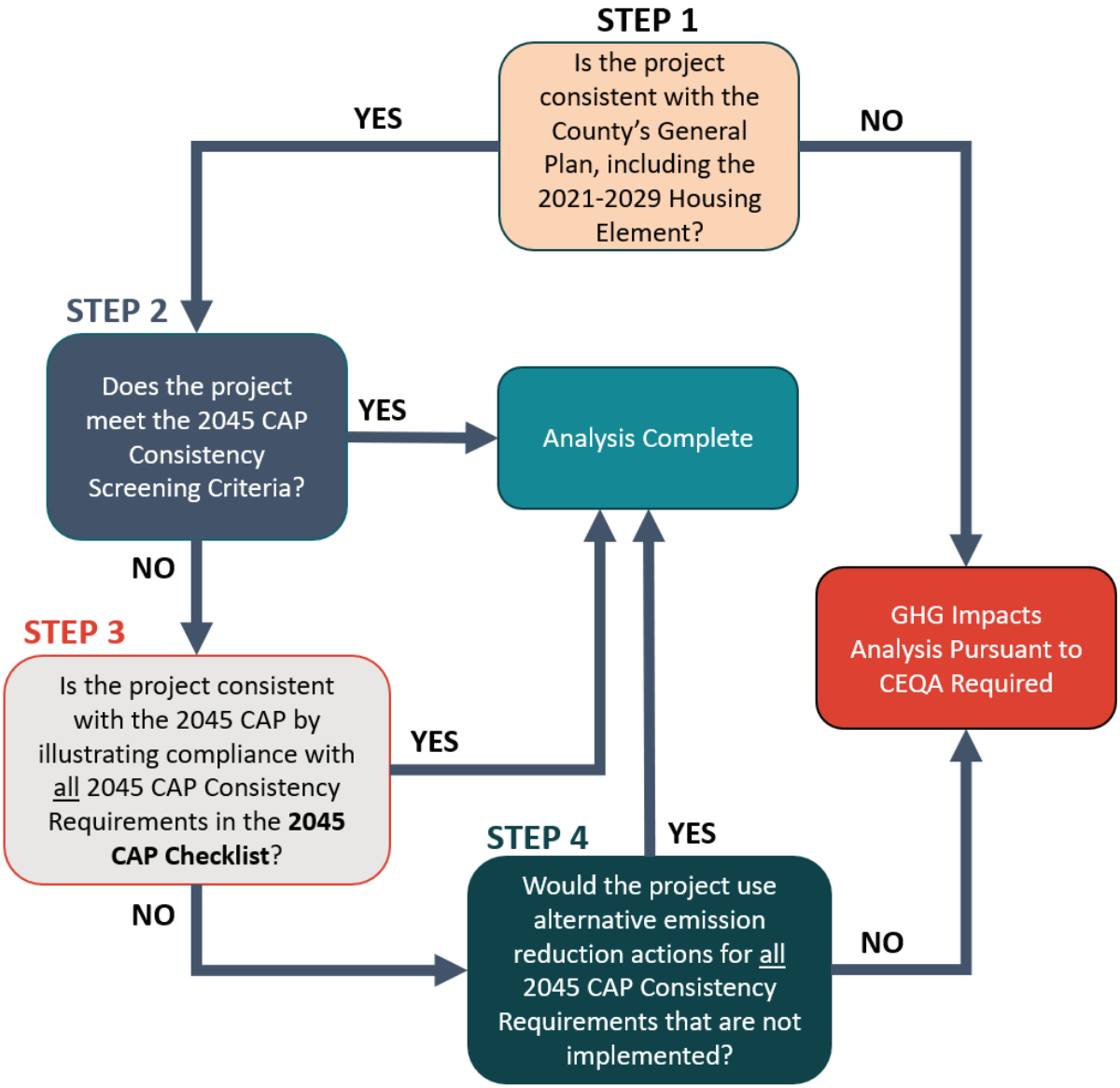


Figure F-1: Determining Consistency with the 2045 CAP

Step 1: Demonstrate Consistency with the Los Angeles County General Plan 2035

All projects must demonstrate consistency with the General Plan, the existing land use designation of the current Land Use Element, and the 2021–2029 Housing Element. **If a project is not consistent with the General Plan, the land use designation of the Land Use Element, or the 2021–2029 Housing Element, then the 2045 CAP Checklist may not be used for CEQA streamlining.** Complete the *General Plan Consistency* section of **Table F-1,** *General Plan and 2045 CAP Greenhouse Gas Emissions Reduction Measure and Action Consistency Checklist*, below.

The options for determining General Plan consistency (included in Table F-1) are as follows:

- Is the proposed project consistent with the existing land use designation of the Land Use Element and the 2021–2029 Housing Element? If yes, move to **Step 2** below. If no, the proposed project may not streamline its GHG impacts analysis by using the 2045 CAP's EIR, and instead must prepare a comprehensive project-specific analysis of GHG emissions and impacts pursuant to CEQA and incorporate the measures in this 2045 CAP Checklist to the extent feasible as defined by CEQA.[8]

Step 2: Determine Whether the Project Screens Out of Using the 2045 CAP Checklist

Certain projects may screen out of completing all or portions of the 2045 CAP Checklist if they meet certain criteria. These criteria are designed to ensure high efficiency and low GHG emissions and describe projects that would generally be consistent with the 2045 CAP's GHG emissions reduction measures and actions for projects.

2045 CAP Checklist Screening Criteria: Projects may skip the *2045 CAP Measure and Action Consistency Requirements* section of Table F-1 below if they meet the following criteria:

- If the project would achieve **net-zero GHG emissions** compared to existing on-site development at the project site, provided that existing on-site development is similar to the proposed project and that GHG emissions from existing on-site development are not substantially larger than emissions from the proposed project, the project is considered consistent with the 2045 CAP and the analysis is complete.

Net-zero GHG emissions means that the difference in GHG emissions between existing conditions and the emissions from construction and operation of the proposed project is zero. For example, if existing on-site uses at the project site are 3,000 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year, and if the project emits fewer than 3,000 $MTCO_2e$ per year through both construction and operations, it would achieve net-zero GHG emissions. Existing conditions constitute the project's CEQA baseline for GHG impacts.

The net-zero criterion can only be applied if existing on-site development is similar to the proposed project. This means that the existing land use type and the project's land use type(s) are reasonably similar, subject to the County's discretion. For example, a mixed-use project

[8] CEQA Guidelines Section 21061.1 defines *feasible* as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and technological factors."

replacing an office land use would be considered similar. However, a mixed-use project replacing an industrial facility or a distribution center would not be considered similar.

Additionally, this criterion can only be applied if emissions from existing on-site development are not substantially larger than emissions from the proposed project, subject to the County's discretion. For example, a retail project with low emissions replacing a large office building with high emissions could not use the net-zero criterion, producing as many emissions as the large office building; such a project would have to produce lower emissions than the large office building to be consistent with the 2045 CAP. Although the 2045 CAP intends to replace high-emitting land use types (such as oil and gas facilities) with low-emissions land use types (such as mixed-use transit-oriented development) to reduce emissions overall, it does not intend to make such replacements without reducing emissions compared to existing uses, which a net-zero emissions criterion would not necessarily facilitate.

To demonstrate that the project achieves net-zero GHG emissions compared to existing on-site development at the project site, that the existing land use type and the project's land use type(s) are reasonably similar, and that emissions from existing on-site development are not substantially larger than emissions from the proposed project, the applicant must submit a comprehensive quantitative project-specific analysis of all GHG emissions from construction and operations, consistent with all CEQA guidelines and standard practice for modeling GHG emissions for projects. If the project meets these criteria, the project does not need to complete **Table F-1** below and the analysis is complete.

Transportation Screening Criteria: Projects may skip checklist items #3, #4, #5, #11, and #12 of the *2045 CAP Measure and Action Consistency Requirements* section of Table F-1 below if they meet the following criteria (based on the 2020 Los Angeles County Department of Public Works Transportation Impact Analysis Guidelines):[9] The project is not an employment center.

1. For development projects:[10]
    a. If the project does not have a retail component, and the project generates a net increase of less than 110 daily vehicle trips,[11] then it screens out.
    b. If the project has a retail component, and it contains retail uses that do not exceed 50,000 square feet of gross floor area,[12] then it screens out.
    c. If the project has a residential component, and 100 percent of the units, excluding manager's units, are set aside for lower income households,[13] then it screens out.

[9] Los Angeles County Department of Public Works. 2020. *Transportation Impact Analysis Guidelines*. July 2020. Available: https://dpw.lacounty.gov/traffic/trafficreportmsg.cfm. Accessed February 2022.
[10] The Transportation Impact Analysis (TIA) Guidelines provide a list of development project types, which include residential, office, manufacturing, institutional, and retail project types. For a complete list, see page 11 of the TIA Guidelines.
[11] As referenced in: Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA.* December 2018.
[12] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA.* December 2018.
[13] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA.* December 2018.

d. If the project is located within a one-half mile radius of a major transit stop or an existing stop along a high-quality transit corridor[14] and meets all of the following criteria, then it screens out:

   i. Has a Floor Area Ratio greater than 0.75. [15]

   ii. Provides less parking than required by the Los Angeles County Code.[16]

   iii. Is consistent with the Southern California Associated of Governments' Regional Transportation Plan/Sustainable Communities Strategy.[17]

   iv. Does not replace residential units set aside for lower income households with a smaller number of market-rate residential units.

2. For transportation projects:[18]

   a. If the project would not include the addition of through traffic lanes on existing or new highways, including general-purpose lanes, high-occupancy vehicle lanes, peak-period lanes, auxiliary lanes, and lanes through grade-separated interchanges (except managed lanes, transit lanes, and auxiliary lanes of less than 1 mile in length designed to improve roadway safety),[19] then it screens out.

   b. If the project would reduce roadway capacity and VMT, [20] then it screens out.

If the project meets the above criteria, it may skip certain transportation portions of the 2045 CAP Checklist (see Table F-1 for details).

Step 3: Demonstrate Consistency with the 2045 CAP GHG Emissions Reduction Measures and Actions

Table F-1 identifies the 2045 CAP's consistency requirements for projects. Projects must demonstrate consistency with the 2045 CAP requirements listed in Table F-1 or document why the requirements are not applicable or are infeasible.[21] The corresponding 2045 CAP measures and actions are indicated in the table to provide additional context. The full text of the 2045 CAP measures and actions is provided in the 2045 CAP (see Chapter 3 and Appendix B).

All applicants shall complete the following steps for the *Transportation, Building Energy and Water, Waste*, and *Agriculture, Forestry, and Other Land Use (AFOLU)* sections of **Table F-1** below (unless the project meets the transportation screening criteria identified in Step 1 above, in

[14] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
[15] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
[16] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
[17] Governor's Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
[18] The TIA Guidelines describe transportation projects as projects that would increase vehicular/roadway capacity.
[19] As noted above, the TIA Guidelines describe transportation projects as projects that would increase vehicular/roadway capacity.
[20] A list of transportation projects that are not likely to lead to a substantial or measurable increase in vehicle miles traveled are included in the County's TIA Guidelines, pp. 17–19.
[21] Please note that the 2045 CAP requirements are not mitigation measures as defined by CEQA.

which case the project may skip completion of certain sections of the *Transportation* section of Table F-1):

1. Review the project consistency options described in the column titled "2045 CAP Consistency Requirement."
2. Use the check boxes in the column titled "Project Consistency" to indicate whether the "Project Complies," the requirement is "Not Applicable," or the "Project Does Not Comply and Alternative Measure Proposed."
3. Provide a qualitative analysis of the proposed project's compliance with the 2045 CAP requirements in the column titled "Description of Project Measure(s)/Documentation of Compliance." This will be the basis for the CEQA analysis to demonstrate compliance with the 2045 CAP, and by extension, with SB 32. The qualitative analysis should provide:
    a. A description of which consistency requirements are included as part of the proposed project; or
    b. A description of why the consistency requirement is not applicable to the proposed project; or
    c. A description of why the consistency requirements are infeasible. If applicants select "Project Does Not Comply" or "Alternative Measure Proposed," they must complete Table F-2 to document what alternative project measures will be implemented to achieve a similar level of GHG reduction and how those GHG emissions reduction estimates were calculated.
4. Provide specific project design criteria and/or reporting metrics to support the proposed project's compliance with each 2045 CAP requirement. Specific information is requested for each respective item in the 2045 CAP Checklist.

Regarding item #2 above, the project applicant can only select "Not Applicable" if the requirement is not relevant to the project. The project applicant should only select "Project Does Not Comply and Alternative Measure Proposed" if it is infeasible, as defined by the CEQA Guidelines, for the project to comply with the checklist requirement. Sufficient documentation of such infeasibility must be supplied to the County to support such a determination. The County retains ultimate discretion for determining the feasibility of the checklist requirement for the proposed project. Further, if "Project Does Not Comply and Alternative Measure Proposed" is selected for a specific checklist requirement, then the project applicant **must** identify an alternative measure to achieve the same or greater level of GHG emissions reduction as the 2045 CAP Checklist item with which the project does not comply.

If the project applicant cannot fully complete these requirements, then the project would not be consistent with the 2045 CAP and the 2045 CAP Checklist may not be used for CEQA streamlining of GHG emissions impacts. See the *Projects Not Consistent with the 2045 CAP* section for additional instructions.

The 2045 CAP consistency requirements are listed as either “Tier 1” or “Tier 2.” These two levels are defined as follows:

Tier 1: Required for all discretionary projects to demonstrate consistency with the 2045 CAP.

Tier 2: Encouraged for all discretionary projects to the maximum extent feasible. Although these measures are not required, projects are strongly encouraged to implement as many of these as feasible.

In general, Tier 1 requirements were quantified in the 2045 CAP for GHG emissions reductions needed to achieve the 2030, 2035, and 2045 emissions reduction targets. Because these measures were quantified, they would be required for the 2045 CAP to achieve its full emissions reduction potential. Some Tier 1 measures were not quantified, but they either are required through other code or ordinance (such as compliance with the Transportation Demand Management Ordinance) or are deemed essential for the overall success of the 2045 CAP. Tier 2 requirements were identified as supporting actions but are not deemed essential for the overall success of the 2045 CAP.

The 2045 CAP Checklist includes the following Tier 1 and Tier 2 requirements, organized by strategy area:

Energy Supply

1. Tier 1: Sunset Oil and Gas Operations
2. Tier 1: Utilize 100% Zero-Carbon Electricity

Transportation

The

3. Meets Transportation Screening Criteria
4. Tier 1: Increase Density Near High-Quality Transit Areas
5. Tier 1: Incorporate Bicycle and Pedestrian Infrastructure
6. Tier 1: Comply with the County Transportation Demand Management (TDM) Ordinance
7. Tier 1: Comply with the County’s Transportation Impact Guidelines
8. Tier 1: Incorporate Electric Vehicle Charging Infrastructure
9. Tier 1: Decarbonize Trucks
10. Tier 1: Incorporate Zero-Emission Technologies for Off-Road Vehicles & Equipment
11. Tier 1: Electrify County Fleet Vehicles (for municipal projects only)
12. Tier 2: Achieve a High Jobs/Housing Balance
13. Tier 2: Encourage Transit, Active Transportation, and Alternative Modes of Transportation
14. Tier 2: Implement Parking Limitations

Building Energy and Water

15. Tier 1: Electrify Existing Buildings
16. Tier 1: Electrify New Buildings
17. Tier 1: Increase Building Energy Efficiency

18. Tier 1: Implement Water Use Efficiency and Water Conservation
19. Tier 1: Comply with All Current County Building Energy Codes and Ordinances
20. Tier 2: Reduce the Life-Cycle Carbon Intensity of Building Materials and Phase Out the Use of High-Global Warming Potential (GWP) Refrigerants
21. Tier 2: Use Energy Storage and Microgrids
22. Tier 2: Use Recycled Water and Graywater for Non-potable Uses and Include Rainfall Capture

Waste

23. Tier 1: Compost Organic Materials
24. Tier 1: Recycle Recyclable Materials
25. Tier 2: Incorporate On-site Composting, Mulching, and/or Anaerobic Digestion

Agriculture, Forestry, and Other Land Use

26. Tier 1: Incorporate Tree Plantings and Expand Urban Forest Cover
27. Tier 2: Conserve Forests, Woodlands, Shrublands, Grasslands, Desert, and other Carbon-Sequestering Wildlands and Working Lands
28. Tier 2: Implement Regenerative Agricultural Practices

2045 CAP Appendix B, *Emissions Forecasting and Reduction Methods*, provides the quantitative basis for the 2045 CAP consistency requirements.

Step 4: Identify Alternative Project Emissions Reduction Measures and Additional GHG Reductions

Projects that propose alternative GHG emissions reduction measures to those identified in Table F-1 or propose to include additional GHG emissions reduction measures beyond those described in Table F-1 shall provide a summary explanation of the proposed measures and demonstrate GHG reductions achievable though the proposed measures.[22] Documentation for these alternative or additional project measures shall be documented in **Table F-2,** *Applicant Proposed Alternative Project Emissions Reduction Measures*. Any applicants who select "Project Does Not Comply and Alternative Measure Proposed" in Table F-1 must complete the following steps for Table F-2.

1. In the column titled "Description of Alternative Measure," provide a qualitative description of what measure will be implemented, why it is proposed, and how it will reduce GHG emissions.
2. In the column titled "Description of GHG Reduction Estimate," demonstrate how the alternative project measure would achieve the same or greater level of GHG emissions reductions as the 2045 CAP requirement that it replaces. Documentation and calculation files must be attached separately.

An example alternative project measure may be installing additional EV charging infrastructure beyond what is required by the California Green Building Standards Code (CALGreen Code),

[22] Please note that the alternative GHG emissions reduction measures are not mitigation measures as defined by CEQA.

County ordinance, or requirements in the forthcoming Zero Emission Vehicle Master Plan, to support zero-emission vehicles beyond what is specified in the 2045 CAP's performance objectives for Measure T6 (Increase ZEV Market Share and Reduce Gasoline and Diesel Fuel Sales). The applicant would then demonstrate how this would achieve the same or greater level of GHG emissions reductions as the checklist requirement for which it serves as an alternative.

Carbon offset credits are not permitted to be used as alternative project emissions reduction measures.

Action ES5.4 of the 2045 CAP would establish an Offsite GHG Reduction Program for new development to use as a GHG reduction or mitigation pathway for 2045 CAP compliance and to fund programs for reducing GHG emissions in the built environment. This program would allow new development to fund decarbonization programs for existing development to accelerate 2045 CAP measures and actions or go beyond 2045 CAP measures and actions. The off-site program would be used in tandem with the 2045 CAP Consistency Checklist for projects that propose alternative GHG emissions reduction measures to those identified in Table F-1, or that propose to include additional GHG emissions reduction measures beyond those described in Table F-1. Once the Offsite GHG Reduction Program has been instituted by the County, project applicants will be able to use the program to complete Table F-2. See Section F.4 for additional detail.

Developing a local voluntary off-site reduction program and associated GHG mitigation market will help the County capture mitigation dollars and provide local benefits that are not realized by the purchase of distant, out-of-state carbon offset credits, while providing greater transparency and enforceability.[23]

Projects Not Consistent with the 2045 CAP

In some cases, a project may not be able to demonstrate consistency with the 2045 CAP. This may be because the project is inconsistent with the existing land use designation of the Land Use Element and the 2021–2029 Housing Element as described in Step 1. Or a project may not be able to feasibly incorporate all consistency requirements as identified in Table F-1 and discussed in Step 3; such a project may further be unable to adequately identify alternative project measures to achieve a similar level of GHG reduction to infeasible consistency requirements.

As discussed above, a comprehensive project-specific analysis of GHG emissions must be prepared for any project that is found to be not consistent with the 2045 CAP through completion of Table F-1 and (if applicable) Table F-2. Such an analysis shall quantify existing and projected GHG emissions and evaluate potential impacts pursuant to the CEQA Guidelines (including the CEQA Guidelines Appendix G Environmental Checklist). The project shall incorporate all the measures in the 2045 CAP Checklist to the extent feasible. Projects that do not implement all feasible applicable checklist measures or alternative project emissions reduction measures may have significant GHG impacts because they could conflict with an applicable GHG reduction plan per CEQA Guidelines Appendix G, Section VII.

[23] California Air Resources Board. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* Appendix D, "Local Actions." November 16, 2022. Available: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed in January 2023.

F.3 2045 CAP Checklist

Table F-1, *General Plan and 2045 CAP Greenhouse Gas Emissions Reduction Measure and Action Consistency Checklist,* allows the applicant to demonstrate compliance with the 2045 CAP's GHG emissions reduction measures and actions. This table addresses ***Step 1:*** *Demonstrate Consistency with the Los Angeles County General Plan 2035*; ***Step 2:*** *Determine Whether the Project Screens Out of Using the 2045 CAP Checklist*; and ***Step 3:*** *Demonstrate Consistency with the 2045 CAP GHG Emissions Reduction Measures and Actions*. This checklist must be completed for all applicable projects.

Table F-2, *2045 CAP Greenhouse Gas Emissions Reduction Alternative Measures*, allows the project applicant to document alternative GHG emissions reduction measures used to demonstrate compliance with the Table F-1 2045 CAP consistency requirements. This table addresses ***Step 4:*** *Identify Alternative Project Emissions Reduction Measures and Additional GHG Reductions*. This checklist is required only for projects that propose to use alternative GHG emissions reduction measures.

Table F-1: General Plan and 2045 CAP Greenhouse Gas Emissions Reduction Measure and Action Consistency Checklist

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Step 1: Demonstrate Consistency with the Los Angeles County General Plan 2035		
1. The Project is Consistent with the General Plan Land Use Element and Housing Element The growth projections included in the General Plan and the 2021–2029 Housing Element were used in the 2045 CAP to estimate unincorporated Los Angeles County GHG emissions over time. Therefore, projects must be consistent with the General Plan to be consistent with the 2045 CAP. To determine a project's consistency with the General Plan, please answer the following question and provide an explanation with supporting documentation. **Is the proposed project consistent with the existing land use designation of the Land Use Element and the 2021 Housing Element Update?** If "Yes," proceed to **Step 2: 2045 CAP Consistency Screening Criteria** below. If "No," the proposed project may not streamline its GHG impacts analysis by using the 2045 CAP's EIR and must prepare a comprehensive project-specific analysis of GHG emissions and impacts pursuant to CEQA and incorporate the measures in this 2045 CAP Checklist to the extent feasible.	*Describe how the project is consistent with the General Plan Land Use Element and Housing Element. Provide additional supporting documentation as an attachment as needed.* *OR,* *Explain why the project is not consistent with the General Plan Land Use Element and Housing Element, and whether the project would include a General Plan amendment.* The project is consistent with land use designation and zoning for the site.	☑ Yes ☐ No
Step 2: Determine Whether the Project Screens Out of Using the 2045 CAP Checklist		
Certain projects may screen out of the 2045 CAP Checklist if they meet the following screening criteria. **Does the project achieve zero GHG emissions compared to the existing on-site development at the project site?** The project must conduct a comprehensive project-specific analysis of all GHG emissions, consistent with all CEQA guidelines and standard practice for modeling GHG emissions for projects, to demonstrate that the project achieves net zero. If "Yes," the project is consistent with the 2045 CAP and no additional analysis is needed (no project-specific GHG impact analysis would be required). If "No," proceed to **Step 3: 2045 CAP Measure and Action Consistency Requirements** below.	*If "Yes," attach to this checklist the estimated project emissions for both existing conditions and the proposed project for comparison. Compare the existing conditions to the maximum buildout of the proposed project. If the proposed project is determined to result in an equivalent or less GHG-intensive project when compared to existing conditions, proceed to the "2045 CAP Consistency" section of this checklist. Provide supporting calculation files and documentation for this analysis.* *OR,* *Explain why the project would not achieve net zero emissions compared to existing conditions. Provide supporting calculation files and documentation for this analysis.* The project site is current vacant and does not generate existing emissions.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Step 3: Demonstrate Consistency with the 2045 CAP GHG Emissions Reduction Measures and Actions		
Energy Supply		
1. TIER 1: Sunset Oil and Gas Operations For any project involving the decommissioning, replacement, retrofit, or redesign of infrastructure or facilities associated with the oil and gas industry, including energy generation (i.e., cogen), the project must: A) Comply with the Oil Well Ordinance (Title 22). B) Reduce fossil fuel–based emissions by at least 80% compared to existing conditions. C) If the project site includes existing active and abandoned oil wells, examine all wells for fugitive emissions of methane. Reduce such existing emissions by a minimum of 80%. D) To reduce any residual fossil fuel–based emissions generated by the project, incorporate carbon removal technologies including direct air capture and carbon and sequestration, as feasible. **Supports 2045 CAP Measures (and Actions):** ES1 (ES1.1, ES1.2, ES1.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed as a replacement strategy (provide additional documentation as described below).* *IN ADDITION, provide* documentation of the project's ability to reduce fossil fuel–based emissions, including fugitive methane emissions. Provide the number of oil and gas operations/wells closed. Provide documentation of any carbon removal technologies incorporated at the project site. The project does not involve any development associated with the oil and gas industry.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
2. TIER 1: Utilize 100% Zero-Carbon Electricity The project must utilize 100% zero-carbon electricity on-site. The project must comply with one of the following options: A) Install on-site renewable energy systems or participate in a community solar program to supply 100% of the project's estimated energy demand to the maximum extent feasible. B) Participate in Southern California Edison at the Green Rate level (i.e., 100% carbon-free electricity) for all electricity accounts associated with the project until SCE provides 100% carbon-free electricity for all accounts by default. C) Participate in the Clean Power Alliance at the Clean Rate level (i.e., 100% carbon-free electricity) for all electricity accounts associated with the project until CPA provides 100% carbon-free electricity for all accounts by default. D) A combination of #1, #2, and #3 above such that 100% of the project's electricity consumption is supplied by zero-GHG emission sources of power generation, whether by utilities or by on-site electricity generation or both. **Supports 2045 CAP Measures (and Actions):** ES2 (ES2.1, ES2.2), ES3 (ES3.1, ES3.2, ES3.3, ES3.4, ES3.5, ES3.6)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below)* *IN ADDITION, provide the project's anticipated electricity demand, the project's participation and opt-out rates for SCE's Green Rate and CPA's Clean Rate electricity rate options used by tenants; and the total kW of solar PV panels installed at the project site.* XX The project would install solar panels onsite to partially meet electricity demand (Option A). The remaining demand would be met by participating in SCE Green Rate level plan for all electricity accounts (Option B).	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Transportation		
3. Meets Transportation Screening Criteria For development projects, does the project: A) have no retail component and generate a net increase of less than 110 daily vehicle trips? If "Yes," skip checklist items #3, #4, #5, #11, and #12 below. Please complete items #7 through #11 below. If "No," proceed to item (B) below. For development projects, does the project: B) have a retail component and contains retail uses that do not exceed 50,000 square feet of gross floor area? If "Yes," skip checklist items #3, #4, #5, #11, and #12 below. Please complete items #7 through #11 below. If the project contains retail and is mixed use, proceed to item (C) below. If "No," proceed to item (C) below. For development projects, does the project: C) have a residential component and 100% of the units, excluding manager's units, are set aside for lower income households? If "Yes," skip checklist items #3, #4, #5, #11, and #12 below. Please complete items #7 through #11 below. If the project contains retail and is mixed use, proceed to item (D) below. If "No," proceed to item (D) below. For development projects: D) Is the project located within a one-half mile radius of a major transit stop or an existing stop along a high-quality transit corridor and: i. has a Floor Area Ratio greater than 0.75? ii. provides less parking than required by the Los Angeles County Code? iii. is consistent with the Southern California Association of Governments (SCAG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS)? iv. does not replace residential units set aside for lower income households with a smaller number of market-rate residential units? If "Yes," skip checklist items #3, #4, #5, #11, and #12 below. Please complete items #7 through #11 below. If "No," proceed to checklist item #3 below. For transportation projects, does the project meet one of the following transportation screening criteria?	*Describe which and how project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure(s) proposed as an alternative strategy (provide additional documentation as necessary).* The project is approximately 2.8 miles from the nearest HQTA. The proposed warehousing project is reasonably sited in a remote area, far away from sensitive receptors.	☐ Yes ☑ No

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
A) The project would not include the addition of through traffic lanes on existing or new highways, including general-purpose lanes, high-occupancy vehicle (HOV) lanes, peak-period lanes, auxiliary lanes, and lanes through grade-separated interchanges (except managed lanes, transit lanes, and auxiliary lanes of less than 1 mile in length designed to improve roadway safety). B) The project would reduce roadway capacity and VMT. If "Yes," skip checklist items #3, #4, #5, #11, and #12 below. Please complete items #7 through #11 below. If "No," proceed to checklist item #3 below. **Supports 2045 CAP Measures (and Actions):** T1 (T1.1, T1.2)		
4. TIER 1: Increase Density Near High-Quality Transit Areas If the project is located within a High Quality Transit Area (HQTA), it must achieve a minimum of 20 dwelling units (DU) per acre, consistent with the Housing Element Rezoning Program. If the project is not located within an HQTA, it must locate residential and employment centers within 1 mile of an HQTA. **Supports 2045 CAP Measures (and Actions):** T1 (T1.1, T1.2)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed as a replacement strategy (provide additional documentation as described below).* The project is not an employment center.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
5. TIER 1: Incorporate Bicycle and Pedestrian Infrastructure The project must incorporate pedestrian and bicycle infrastructure into its design: A) Provide pedestrian facilities and connections to public transportation consistent with the Pedestrian Action Plan, Active Transportation Plans, and Vision Zero Action Plan, and any other relevant governing plan. B) Provide bicycle facilities consistent with the Bicycle Master Plan, Active Transportation Plans, and Vision Zero Action Plan, and any other relevant governing plan, and meet or exceed minimum standards for bicycle facilities in the Zoning Code and CALGreen Code. C) Increase sidewalk coverage to improve pedestrian access. D) Improve degraded or substandard sidewalks. E) Incorporate best practices to ensure pedestrian infrastructure is contiguous and links externally with existing and planned pedestrian facilities; best practices include high-visibility crosswalks, pedestrian hybrid beacons, and other pedestrian signals, mid-block crossing walks, pedestrian refuge islands, speed tables, bulb-outs (curb extensions), curb ramps, signage, pavement markings, pedestrian-only connections and districts, landscaping, and other improvements to pedestrian safety.	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed as a replacement strategy (provide additional documentation as described below)* *IN ADDITION, provide the length and/or amount of bicycle and pedestrian infrastructure incorporated, such as feet or miles of bikeways.* The project would provide 216 long-term and 120 short-term bicycle spaces onsite. The project would also construct sidewalks along project perimeters, namely Avenue F, 20th Street West, Avenue F-8, and new proposed public road long the east property boundary.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
F) Minimize barriers to pedestrian access and interconnectivity, such as walls, landscaping buffers, slopes, and unprotected crossings. G) Provide bicycle facilities for new and expanded buildings, new dwelling units, change of occupancy, increase of use intensity, and added off-street vehicle parking spaces. H) Provide short- and long-term (secure) bicycle parking for at least 5% of motorized vehicle capacity and nothing less than CALGreen Code requirements, whichever is more restrictive. I) Support the County's goal to increase bikeway miles by 300 percent by 2030 (including Class I bike paths, Class II bike lanes, and Class III bike routes). **Supports 2045 CAP Measures (and Actions):** T3 (T3.1, T3.2, T3.3)		
6. TIER 1: Comply with the County Transportation Demand Management (TDM) Ordinance The Project must comply with the TDM ordinance at the time of project approval. This may include preferential carpool/vanpool parking, bicycle parking, and shower facilities and locker rooms; trip reduction plans; transit-supportive infrastructure development; and similar strategies. Comply with any applicable VMT reduction target and incorporate any required monitoring mechanisms for development, subject to the ordinance. **Supports 2045 CAP Measures (and Actions):** T4 (T4.5)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below)* *IN ADDITION, provide the number of employers participating in the TDM program, the total trip reduction goals for the project's TDM program, and the total trips and VMT reduced via the project's TDM program.* The project would implement TDM measures and comply with TDM Ordinance.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
7. TIER 1: Comply with the County's Transportation Impact Guidelines The project must comply with the County's current Transportation Impact Analysis (TIA) Guidelines. Projects may screen out if they meet certain criteria, such as being located in a transit priority area or local-serving retail development less than 50,000 square feet. Projects that do not screen out must meet the VMT efficiency metrics identified by the TIA Guidelines (e.g., daily VMT per capita for residential projects that is 16.8% below the existing residential VMT per capita for the Baseline Area in which the project is located) and quantitatively demonstrate how these metrics are achieved, pursuant to the TIA Guidelines requirements. **Supports 2045 CAP Measures (and Actions):** T1, T2, T3, T4, T5	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed strategy (provide additional documentation as described below).* According to the project's traffic study, the project would comply with TIA Guidelines.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
8. TIER 1: Incorporate Electric Vehicle Charging Infrastructure The project must incorporate zero-emission vehicle (ZEV) infrastructure and incentives into its design as follows: A) Comply with any CALGreen Code requirement, County ordinance, building code, or condition of approval that requires a certain amount of electric vehicle (EV) charging infrastructure (EVCSs) and readiness. This may include minimum requirements for EV charging stations, EV-capable parking spaces, and EV-ready parking spaces. B) Comply with any provisions and requirements in the forthcoming Zero Emission Vehicle Master Plan.[1] C) Include electric options for promoting active transportation, such as electric scooters and e-bikes. D) Provide education and outreach to tenants and occupants about the benefits of ZEVs and the project's EV infrastructure. **Supports 2045 CAP Measures (and Actions):** T6 (T6.1, T6.2, T6.3, T6.4, T6.5, T6.6, T6.7)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below)* *IN ADDITION, provide the number of ZEVs in the project's tenant's and vendor fleet, if available; the number of public and private EVCSs installed; and the number of scooters/e-bikes available to tenants.* The project would include 10 EV charging stations.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
9. TIER 1: Decarbonize Trucks For projects that include goods movement facilities and/or warehouses, the project must incorporate freight decarbonization technologies and infrastructure, including: A) Comply with any CALGreen Code requirement, County ordinance, building code, or condition of approval that requires a certain amount of EV charging infrastructure and readiness for goods movement facilities and trucks. B) Provide EVCSs at all new warehouse loading docks. C) Comply with any provisions and requirements in the forthcoming Zero Emission Vehicle Master Plan related to goods movement. D) Implement freight decarbonization technologies along highway corridors. E) For all goods movement facilities, install alternative fueling infrastructure such as EVCSs, green hydrogen fueling stations, and/or biomethane fueling stations. F) Comply with any established zero-emission delivery zones. **Supports 2045 CAP Measures (and Actions):** T8 (T8.1, T8.2, T8.3, T8.4, T8.5)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the number of ZEV trucks in the project's tenant's and vendor fleet if available and the number EVCS installed.* The project would comply with all applicable County Code and CALGreen Code requirements.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
10. TIER 1: Incorporate Zero-Emission Technologies for Off-Road Vehicles & Equipment The project must: A) Prohibit the use of small equipment powered by gasoline, diesel, propane, or other fossil fuels, including lawn and garden equipment and outdoor power equipment, for all tenants and owners. B) Provide educational materials to tenants regarding the SCAQMD Electric Lawn and Garden Equipment Incentive and Exchange Program, Commercial Lawn & Garden Battery Buy-Down Rebate Program, the Residential Lawn Mower Rebate Program, the new requirements of AB 1346, and any other available options and incentives for purchasing zero-emission equipment, including rebates and subsidies offered by CARB, the County, or other agencies and entities. C) Use electric and zero-emission construction equipment during project construction to the maximum extent feasible. Such equipment shall include forklifts, manlifts, loaders, welders, saws, pumps, fixed cranes, air compressors, sweepers, aerial lifts, pressure washers, and other small equipment. At minimum, the project must use off-road construction equipment that meet CARB Tier 4 Final engine emission standards. D) Use electric and zero-emission agriculture and manufacturing equipment to the maximum extent feasible. These requirements must be stipulated in the contract specifications for the project's construction and for the project's future tenants and any landscaping contracts for the property or tenants. **Supports 2045 CAP Measures (and Actions):** T9 (T9.1, T9.2, T9.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide off-road vehicle and equipment fleet count, type, and fuel type, as available.* The project owner would provide educational materials to tenants (Option B). The project would use CARB Tier 4 Final engine construction equipment (Option C). Option D is not applicable as the project does not involve agriculture or manufacturing activities.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
11. TIER 1: Electrify County Fleet Vehicles (for municipal projects only) For all new municipal projects and facilities that include the purchase or operation of new fleet vehicles, including public transit buses and shuttles, all such fleet vehicles must be ZEVs. **Supports 2045 CAP Measures (and Actions):** T7 (T7.1, T7.2)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the number of new ZEV buses and the total ZEV percentage of the project's fleet.* The project is not a municipal project.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
12. TIER 2: Achieve a High Jobs/Housing Balance For projects with nonresidential development, the Project must incorporate the following design elements: A) Support the County's goal to achieve a job density of 300 jobs per acre. **Supports 2045 CAP Measures (and Actions):** T2 (T2.1)	*Describe how the project will achieve a job density of 300 jobs per acre.* *OR,* *Describe why this action is not applicable to your project.* *OR* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
13. TIER 2: Encourage Transit, Active Transportation, and Alternative Modes of Transportation For transit projects only, incorporate the following: A) Expand and improve frequency of existing network of County shuttles. B) Install bus-only lanes and signal prioritization along major thoroughfares. C) Install full bus rapid transit infrastructure along priority corridors. For all other projects, incorporate the following: A) Provide new mobility services, such as micro transit, autonomous delivery vehicles, and on-demand autonomous shuttles, in unincorporated Los Angeles County. B) Offer free transit passes for students, youth, seniors, disabled, and low-income populations. C) Implement telecommuting by project tenants and residents. D) Establish temporary and permanent car-free areas at the project site. **Supports 2045 CAP Measures (and Actions):** T4 (T4.1, T4.2, T4.3, T4.6, T4.7, T4.8, T4.10)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, for transit projects, provide the size of area served by transit, the number of employees and residents served by transit, the transit service frequency and headways, the increase in headways or frequencies provided by the project, total transit service hours provided by transit, the number and length of bus-only lanes, and information on signal prioritization on transit routes implemented by the project.* *For non-transit projects, provide the number of residents within one-half mile of bus or active transportation services; information on any new mobility services offered, information on free transit passes offered, the number of employers participating in telecommuting programs, and the number and location of car-free areas provided by the project.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
14. TIER 2: Implement Parking Limitations Projects should include the following characteristics: A) Shared and reduced parking strategies, such as shared parking facilities, carpool/vanpool-only spaces, shuttle facilities, EV-only spaces, and reduced parking below allowable amount B) Minimum amount of required parking C) Unbundled parking costs to reflect cost of parking D) Parking pricing to encourage "park-once" behavior E) Compliance with all County parking reform strategies and policies **Supports 2045 CAP Measures (and Actions):** T5 (T5.1)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total number of parking spaces, carpool/vanpool-only spaces, shuttle facilities, EV-only spaces; information on parking costs and unbundling; and parking prices.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Building Energy and Water		
15. TIER 1: Electrify Existing Buildings This action applies only to projects that include a retrofit, remodel, or redesign of an existing building. If the proposed project does not include a retrofit, remodel, or redesign, select "Not Applicable" in the *Project Consistency* column. The project must incorporate the following design elements: A) All space heating and water heating must be electric. B) With the exception of restaurants, all cooking appliances must be electric. C) For restaurants, use electric cooking appliances to the maximum extent feasible. D) Comply with all applicable Building Performance Standards.[2] E) Comply with all building carbon intensity limits.[3] F) If the project is a major renovation, achieve ZNE and/or comply with the City's ZNE ordinance.[4] **Supports 2045 CAP Measures (and Actions):** E1 (E1.1, E1.2, E1.3, E1.4, E1.5, E1.6)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the project's anticipated energy consumption (natural gas use and electricity use) and the number of existing buildings transitioned to all-electric buildings.* The project would not involve an existing building.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
16. TIER 1: Electrify New Buildings For projects under construction before 2030, the project must be fully electric with no natural gas infrastructure or appliances, as specified in the County's all-electric buildings ordinance, unless the project meets specific exemptions identified in the ordinance.[5] For projects under construction after 2030, the project must be zero-net-energy and fully electric with no natural gas infrastructure or appliances, as specified in the County's ZNE ordinance, unless the project meets specific exemptions identified in the ordinance.[6] **Supports 2045 CAP Measures (and Actions):** E2 (E2.1, E2.2, E2.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the number and square footage of all-electric buildings built, all ZNE buildings built, and the total electricity consumption for all buildings.* The project would not use natural gas.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
17. TIER 1: Increase Building Energy Efficiency This action applies only to projects that include a retrofit of an existing building. If the proposed project does not include a retrofit, select "Not Applicable" in the *Project Consistency* column. The project shall incorporate the following energy efficiency measures into the design: A) Comply with all applicable building performance standards.[7] B) Incorporate strategic energy management programs to reduce building energy demands. C) Conduct an energy audit or benchmarking analysis to identify potential energy savings opportunities and implement such opportunities. D) Achieve CALGreen Code Tier 2 or voluntary building energy measures as they apply to the retrofit. E) Replace existing appliances with higher-efficiency models. F) Install heat-trapping surfaces to cool or green surfaces, as feasible. G) Participate in SoCalREN, SCE, CPA, or other energy efficiency programs. H) Conduct other energy efficiency retrofits. I) Achieve zero-net-energy, if feasible. **Supports 2045 CAP Measures (and Actions):** E4 (E4.1, E4.2, E4.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total number of energy retrofits performed, the building size (square footage) retrofit, the total project energy use and anticipated energy savings through retrofits, and the number and area of cool and green roofs installed.* The project would not involve an existing building.	☐ Project Complies ☑ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
18. TIER 1: Implement Water Use Efficiency and Water Conservation The project must comply with the current water conservation ordinance in place, including any requirements for LEED or Sustainable SITES standards.[8] The project must also incorporate water use efficiency and conservation measures, including: A) High-efficiency appliances/fixtures to reduce water use, and/or include water-efficient landscape design B) CALGreen Code Tier 1 and Tier 2 voluntary water conservation measures C) Low-flow or high-efficiency water fixtures D) Water-efficient landscapes with lower water demands than required by the DWR 2015 Model Water Efficient Landscape Ordinance E) Drought-tolerant and native plant species only F) A comprehensive water conservation strategy G) Educational materials provided to future tenants and building occupants about water-saving behaviors and water-conserving landscaping	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the project's estimated total water consumption (in GPCD or total gallons), the square footage of buildings that are water-neutral, and the project's building size (square footage).* The project would incorporate drought tolerant landscaping and include water-efficient irrigation.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Supports 2045 CAP Measures (and Actions): E6 (E6.1, E6.2, E6.3, E6.4, E6.5)		
19. TIER 2: Reduce the Life-Cycle Carbon Intensity of Building Materials and Phase Out the Use of High-GWP Refrigerants The project must incorporate the following design elements to the maximum extent feasible: A) For projects that are not fully electric, incorporate biomethane into the natural gas mix in place of traditional natural gas. B) Use negative-carbon concrete for all construction. C) Use low-GWP refrigerants and fire suppression equipment for all uses on-site. D) Comply with all County codes and ordinances regarding building material carbon intensity and high-GWP refrigerants and other gases. **Supports 2045 CAP Measures (and Actions):** E3 (E3.1, E3.2, E3.3, E3.4)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the amount of biomethane used by the project, the quantify of negative-carbon concrete for construction, and the quantity of low-GWP refrigerants and fire suppression equipment used.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
20. TIER 2: Use Energy Storage and Microgrids The project must incorporate the following design elements to the maximum extent feasible: A) Install energy storage systems. B) Use a building-scale or community microgrid to support demand management and peak shaving. **Supports 2045 CAP Measures (and Actions):** ES4 (ES4.1, ES4.2, ES4.3, ES4.4, ES4.5)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total kW of energy storage capacity installed and operational information for any microgrids utilized, if applicable.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
21. TIER 2: Use Recycled Water and Graywater for Non-potable Uses and Include Rainfall Capture The project must implement water reuse strategies onsite through the following design elements: A) Require use of reclaimed/recycled water and/or graywater for outdoor uses. B) Install residential graywater systems that meet appropriate regulatory standards. C) Install rainfall capture systems. D) Install dual plumbing for the use of recycled water. **Supports 2045 CAP Measures (and Actions):** E5 (E5.1, E5.2, E5.3, E5.4)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below)* *IN ADDITION, provide the amount of reclaimed/recycled water and/or graywater used by the project.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
Waste		
22. TIER 1: Compost Organic Materials The project must comply with all state and local requirements for composting and organic waste collection, including but not limited to Chapter 20.91 (Mandatory Organic Waste Disposal Reduction Ordinance) of the Los Angeles County Code, including all County requirements pursuant to AB 1826 and SB 1383. The project must also: A) Provide proper storage, collection, and loading of organics in a manner that is convenient and safe for all users of the building. Ensure there are sufficient sizes of collection containers for organics. Containers must be kept clean, be clearly labeled, and are co-located next to any other solid waste receptacles. Ensure sufficient pick-up of collection containers to meet the needs of the occupants. B) Include space for multi-stream collection containers for both recycling and organics in any location where a solid waste container is traditionally housed. This includes both outdoor collection containers serviced by a waste hauler or indoor collection containers utilized by occupants. Provide educational material and training to occupants and tenants in how to properly separate organics from all other solid waste and place organics in a separate container designated for organics. C) Ensure that all project occupants and tenants will separate compostables from all other refuse and place compostables in a separate container designated for composting. D) Require that all single-use food service ware (plates, bowls, cups) and accessories (straws, utensils, condiment cups) used by tenants at the project site be BPI certified compostable fiber, except where certain materials may be deemed medically necessary or necessary to ensure equal access for persons with disabilities. E) Require that any single-use accessories (straws, utensils, condiment cups) be only available on demand. F) Ensure that containers are audited annually to ensure proper service levels and to check for contamination. Report findings back to occupants within 30 days and to the County as requested. G) Work with the waste hauler to provide educational materials to tenants on at least an annual basis. H) Provide compliance data to the County as required for any current auditing program. **Supports 2045 CAP Measures (and Actions):** W1 (W1.1, W1.2) and W2 (W2.1, W2.2, W2.5)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the project's estimated organic waste generation (tons), the amount of organic waste sent to landfills, and the amount of organic waste generated by the project which is diverted from landfills.* The project would comply with the latest composting regulations.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
23. TIER 1: Recycle Recyclable Materials The project must comply with all state and local requirements for recycling, also including but not limited to Section 20.72.170 (Recyclable Materials Collection Program) of the Los Angeles County Code and all County requirements pursuant to AB 341 and AB 1826. The project must also: A) Comply with any zero waste ordinance in place at the time of project approval. B) Comply with all Mandatory Construction & Demolition (C&D) Recycling Program Requirements, including Chapter 20.87 (Construction and Demolition Debris Recycling and Reuse). C) Provide substantial storage, collection, and loading of recyclables in a manner that is convenient and safe for all users of the building. Ensure there are sufficient sizes and amount of collection containers for recyclables. Containers must be kept clean, be clearly labeled, and are co-located next to any other solid waste receptacles. Ensure sufficient pick-up of collection containers to meet the needs of the occupants. D) Include space for multi-stream collection containers in any location where a solid waste container is traditionally housed. This includes both outdoor collection containers serviced by a waste hauler or indoor collection containers utilized by occupants. Provide educational materials and training to occupants and tenants in how to properly separate recyclables from all other solid waste and place recyclables in a separate container designated for recycling. E) Ensure that all project occupants and tenants separate recyclables from all other refuse and place recyclables in a separate container designated for recycling. F) Require that all single-use food service ware (plates, bowls, cups) and accessories (straws, utensils, condiment cups) used by tenants at the project site be BPI certified compostable fiber, except where certain materials may be deemed medically necessary or necessary to ensure equal access for persons with disabilities. G) Require that any single-use accessories (straws, utensils, condiment cups) be only available on demand. H) Ensure that containers are audited annually to ensure proper service levels and to check for contamination. Report findings back to occupants within 30 days and to the County as requested. I) Work with the waste hauler to provide educational materials to tenants on at least an annual basis. J) Provide compliance data to the County as required for any current auditing program. **Supports 2045 CAP Measures (and Actions):** W1 (W1.1, W1.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total C&D tonnage recycled and/or diverted from landfills, the project's estimated recyclable waste generation (tons), the amount of recyclable waste sent to landfills, and the amount of recyclable waste generated by the project which is diverted from landfills.* The project would comply with the latest recycling regulations.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
24. TIER 2: Incorporate On-Site Composting, Mulching, and/or Anaerobic Digestion The project may incorporate organic waste processing capabilities, such as composting, mulching, or anaerobic digestion facilities (where applicable). Collaborate with PW and waste agencies to share organic processing information with interested parties. **Supports 2045 CAP Measures (and Actions):** W2 (W2.2, W2.3, W2.4)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide information on any anaerobic digestion facilities constructed including their capacity and the amount of organic waste digested and converted to electricity, and the project's total energy generation from organic waste.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
Agriculture, Forestry, and Other Land Use (AFOLU)		
25. TIER 1: Incorporate Tree Plantings and Expand Urban Forest Cover The project must: A) Enhance and expand urban forest cover and vegetation by planting trees and other vegetation. All trees and vegetation planted must be drought-tolerant or California native trees and plants. B) Comply with the Urban Forest Management Plan. C) Replace all native trees removed by the project with an equal or greater number of new trees. D) To the extent feasible, incorporate equitable urban forest practices and prioritize: i. Tree- and park-poor communities ii. Climate and watershed-appropriate and drought/pest-resistant vegetation iii. Appropriate watering, maintenance, and disposal practices iv. Shading v. Biodiversity **Supports 2045 CAP Measures (and Actions):** A3 (A3.1, A3.2, A3.3)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total number of trees planted, the total tree canopy cover, the project's total green space area, and the area of impervious surface converted to pervious surfaces.* The project would incorporate drought-resistant vegetation (landscaping) throughout the site.	☑ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY
26. TIER 2: Conserve Forests, Woodlands, Shrublands, Grasslands, Desert, and other Carbon-Sequestering Wildlands and Working Lands For all projects involving the preservation, conservation, and restoration of agricultural lands, working lands, rangelands, forest lands, wetlands, and other wildlands in unincorporated Los Angeles County, the project may: A) Support the use of public and private land for urban and peri-urban agriculture, such as community gardens, and including urban vertical surfaces. B) Conserve and restore natural forest lands, wetlands and wildlands through land acquisitions and conservation easements. C) Preserve existing agricultural and farmlands, including those mapped as Agricultural Resource Areas. Expand adjoining areas to enlarge farmland area. D) Actively manage forests to reduce wildfire risk and prevent carbon loss in forest lands. **Supports 2045 CAP Measures (and Actions):** A1 (A1.1 and A1.2)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the total number of acres preserved, conserved, and restored by land type, the number and size of community gardens added, the amount of vertical surface converted, and the acres of forest land managed for wildfire risk reduction and carbon stock savings if applicable.*	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed
27. TIER 2: Implement Regenerative Agricultural Practices For all agricultural projects, the project may: A) Utilize fallow and field resting practices to reduce bare-fallow land by adding cover crops and promoting crop rotation for active agricultural sites to improve soil quality and limit risks of nutrient erosion, pollutant runoff, and yield reduction. B) Implement a carbon farming plan with the primary objectives of carbon removal and regenerative agriculture. C) Use compost and/or organic fertilizer. **Supports 2045 CAP Measures (and Actions):** A2 (A2.1, A2.2)	*Describe which project consistency options from the leftmost column you are implementing.* *OR,* *Describe why this action is not applicable to your project.* *OR,* *Describe why such actions are infeasible and identify the alternative measure proposed (provide additional documentation as described below).* *IN ADDITION, provide the q*uantity of synthetic fertilizers and compost used / applied, the number of acres of cover crops using regenerative agricultural techniques, the tonnage of fertilizer/compost produced each year.	☐ Project Complies ☐ Not Applicable ☐ Project Does Not Comply and Alternative Measure Proposed

2045 CAP CONSISTENCY REQUIREMENT	DESCRIPTION OF PROJECT MEASURE(S) / DOCUMENTATION OF COMPLIANCE / EXPLANATION OF NON-COMPLIANCE	PROJECT CONSISTENCY

NOTES:

Abbreviations: 2045 CAP = 2045 Los Angeles County Climate Action Plan*; AB = Assembly Bill; AFOLU = Agriculture, Forestry, and Other Land Use; C&D = Construction & Demolition; CALGreen Code = California Green Building Standards Code; CAP = Climate Action Plan; CARB = California Air Resources Board; CEQA = California Environmental Quality Act; County = County of Los Angeles; CPA = Clean Power Alliance; DU = dwelling unit(s); DWR = California Department of Water Resources; EIR = environmental impact report; EV = electric vehicle; EVCS = electric vehicle charging station; General Plan* = Los Angeles County General Plan 2035*; GHG = greenhouse gas; GWP = global warming potential; HOV = high-occupancy vehicle; HQTA = High Quality Transit Area; kW = kilowatts; LEED = Leadership in Energy and Environmental Design; MWELO = Model Water Efficient Landscape Ordinance; PV = photovoltaic; PW = Los Angeles County Department of Public Works; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SB = Senate Bill; SCAG = Southern California Association of Governments; SCAQMD = South Coast Air Quality Management District; SCE = Southern California Edison; SoCalREN = Southern California Regional Energy Network; TDM = transportation demand management; TIA = Transportation Impact Analysis; VMT = vehicle miles traveled; WUI = wildland urban interface; ZEV = zero-emission vehicle; ZNE = zero net energy.*

1 *Although the County has not yet developed the Zero Emission Vehicle Master Plan, the County will develop such a Plan before 2030, pursuant to Implementing Action T6.1 in the 2045 CAP.*

2 *Although the County has not yet developed building performance standards, the County will develop such a standard before 2030, pursuant to Implementing Action E1.1 in the 2045 CAP.*

3 *Although the County has not yet developed carbon intensity limits, the County will develop such a standard before 2030, pursuant to Implementing Action E1.2 in the 2045 CAP.*

4 *Although the County has not yet developed a ZNE ordinance, the County will develop such a standard before 2030, pursuant to Implementing Action E1.3 in the 2045 CAP.*

5 *Although the County has not yet developed an all-electric new buildings ordinance, the County will develop such an ordinance before 2030, pursuant to Implementing Action E2.1 in the 2045 CAP.*

6 *Although the County has not yet developed a ZNE ordinance, the County will develop such a standard before 2030, pursuant to Implementing Action E2.2 in the 2045 CAP.*

7 *Although the County has not yet developed building performance standards, the County will develop such a standard before 2030, pursuant to Implementing Action E4.1 in the 2045 CAP.*

8 *Although the County has not yet developed a net zero water ordinance, the County will develop such a standard before 2030, pursuant to Implementing Action E6.1 in the 2045 CAP.*

9 *Although the County has not yet developed building performance standards for building material carbon intensity and high-GWP refrigerants, the County will develop standards before 2030, pursuant to Implementing Actions E3.3 and E3.4 in the 2045 CAP.*

Table F-2: 2045 CAP Greenhouse Gas Emissions Reduction Alternative Measures

DESCRIPTION OF PROPOSED ALTERNATIVE MEASURE	DESCRIPTION OF GHG REDUCTION ESTIMATE
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*
Alternative for 2045 CAP Consistency Requirement #: *[Number]* **Emissions Sector:** *[transportation, building energy and water, waste, AFOLU, or other sector]* **Measure Description:** [Describe the proposed project measure and why it is proposed]	*[Demonstrate the effectiveness of the proposed measure to reduce the project's GHG emissions. Include a description of how your measure will reduce emissions and provide supporting quantification documentation and assumptions. The GHG emissions reduction analysis must be consistent with all CEQA guidelines and standard practice for modeling GHG emissions for project measures and actions.]*

F.4 Offsite GHG Reduction Program Framework

Introduction

An Offsite GHG Emissions Reduction Program (Offsite Program) will be developed. Future projects that cannot achieve net-zero GHG emissions or are unable to comply with all required 2045 CAP Checklist items would have the option to participate in the Offsite Program. This program would allow project applicants to implement local projects that reduce GHG emissions in unincorporated Los Angeles County (referred to herein as *offsite projects*). Such offsite projects must not otherwise be required by law or regulation and would not have happened but for the requirements placed on the project by the 2045 CAP Checklist.

This section represents a *framework* for the forthcoming Offsite Program; the actual program will be developed after the 2045 CAP is adopted.

CARB Guidance on Offsite GHG Reductions

As discussed in Section F.1, CARB supports "off-site GHG mitigation" in Appendix D of the 2022 Scoping Plan for projects that have implemented all feasible on-site GHG reductions: "If implementation of all feasible on-site GHG reduction measures is insufficient to reduce a project's impact to a less-than-significant level, the State recommends that the lead agency next explore options to fund or implement ***local***, off-site direct GHG reduction strategies."[24] The Offsite Program would achieve these goals.

Relationship to 2045 CAP Measures and Actions

The offsite projects that will be allowed in the program fall into two general categories:

1. Offsite projects *included* in the 2045 CAP's measures and actions.
2. Offsite projects *not included* in the 2045 CAP's measures and actions.

Offsite Projects Included in the 2045 CAP

This category represents projects (and the GHG emissions reductions they create) that *are* already included in the 2045 CAP's measures and actions. An allowable offsite project could involve, for example, accelerating measures, actions, and/or programs that are already identified in the 2045 CAP by providing additional funding to that program. Such projects would not add new programs or actions not already included in the 2045 CAP; they would expand upon and/or accelerate these programs and actions. Example projects are discussed below.

Offsite Projects Not Included in the 2045 CAP

This category represents projects (and the GHG emissions reductions they create) that are *not* already included in the 2045 CAP's measures and actions. An allowable offsite project could involve, for example, creating or funding programs for implementing new technologies (e.g., zero-emission construction equipment) or implementing new emissions reduction measures or actions not considered in the 2045 CAP. Example projects are discussed below.

[24] California Air Resources Board. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* Appendix D, "Local Actions." November 16, 2022. Available: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed in January 2023.

Offsite Projects Not Eligible

Offsite projects that are implementing planned 2045 CAP measures and actions on the 2045 CAP's identified timeline are not eligible for the Offsite Program. Additionally, an offsite project activity that would be mandated by any current or future ordinance (such as a future ZNE ordinance for new buildings) cannot be used in the Offsite Program.

Carbon offset credits are not permitted to be used as offsite projects. In other words, projects that generate carbon offset credits to be traded on a voluntary market registry are not permitted to be used in this program.

Location

All offsite projects must be located within the jurisdictional boundaries of unincorporated Los Angeles County. Therefore, emissions reductions achieved by such offsite projects will be accounted for in future GHG inventory updates and will contribute toward the emissions reduction targets, which are based on the jurisdictional boundaries of unincorporated Los Angeles County. See 2045 CAP Appendix A for a discussion of the inventory and forecast boundaries.

Offsite projects shall be in the following locations, in order of priority, to the extent available: (1) Within the neighborhood surrounding the project site; (2) within the greater surrounding community (i.e., town); (3) within the same Planning Area; and (4) in other Planning Areas, but within unincorporated Los Angeles County.

Standards

All offsite projects must achieve **six specific standards** to ensure that the GHG reductions produced by offsite projects are environmentally sound; namely that the GHG reductions be real, permanent, quantifiable, verifiable, enforceable, and additional, defined as follows:

- **Real** means that the offsite project's GHG reductions are the direct result of complete emissions accounting. In other words, *real* means that GHG reductions or GHG enhancements result from a demonstrable action or set of actions, and are quantified using appropriate, accurate, and conservative methodologies that account for all GHG emissions sources, GHG sinks, and GHG reservoirs within the offsite project boundary and account for uncertainty.[25]
- **Permanent** means either that GHG reductions and GHG removal enhancements are not reversible, or that when GHG reductions and GHG removal enhancements may be reversible, mechanisms are in place to replace any reversed GHG emissions reductions and GHG removal enhancements to ensure that all credited reductions endure for at least 100 years.
- **Quantifiable** means the ability to accurately measure and calculate GHG reductions or GHG removal enhancements relative to an offsite project's baseline in a reliable and replicable manner for all GHG emissions sources, GHG sinks, or GHG reservoirs included within the offsite project boundary, while accounting for uncertainty. GHG emissions reductions from an activity must be rigorously quantified, and such GHG reductions would only be permitted in an amount that corresponds to the GHG emissions that have been

[25] In general, uncertainty should be accounted for by using conservative assumptions and/or parameter values that tend to underestimate, rather than overestimate, total GHG emissions reductions.

quantified. GHG emissions accounting must be accurate and adhere to standardized quantification methodologies, which are discussed further below.

- **Verifiable** means that an offsite project's assertion of GHG emissions reductions is well documented and transparent, such that it lends itself to an objective review by an accredited verification body. The forthcoming Offsite Program itself may require third-party verification.[26]
- **Enforceable** means the authority of the County to hold a particular party responsible to take appropriate action if any of the provisions of the Offsite Program are violated.
- **Additional** means that the offsite project is not otherwise required by law, regulation, or legally binding mandate, and none of the offsite project's GHG emissions reductions would otherwise occur. In other words, an offsite project activity is additional if it can be demonstrated that the activity would result in emissions reductions or removals exceeding what would be achieved in the absence of the incentive provided by the proposed project and the 2045 CAP Consistency Checklist. Additionality is an important characteristic the Offsite Program because it indicates that the GHG reductions represent a net environmental benefit and a real reduction of GHG emissions and can thus be used to offset a project's new GHG emissions.

Proposed Process

If an applicant selects to use the Offsite Program as an alternative GHG emissions reduction measure beyond those described in Table F-1, a specific process must be followed. The process will consider the following topics, which are subject to modification by the County in the forthcoming Offsite Program.

Quantification: Project applicants shall provide evidence to the County showing that the offsite project(s) proposed achieve the amount of GHG emissions reductions required. Examples of such evidence include applicable methodologies associated with the GHG emissions reductions, quantification calculations, and supporting documentation.

Standards: Project applicants must demonstrate, with substantial evidence, that all six of the offsite project standards are met: *real, permanent, quantifiable, verifiable, enforceable*, and *additional*.

Enforcement: Project applicants shall obtain all necessary permits and approvals for implementation of the offsite project implementation and such materials shall be submitted to the County for review and approval before project approval.

Timing: Project applicants shall submit documentation to the County identifying the quantity of GHG emissions reductions required by the offsite project over a specific time frame to be identified in the Offsite Program (e.g., before project approval or permit issuance, over the course of buildout of the project).

[26] Generally, third-party verification includes a review of all documentation, monitoring data, and procedures used to estimate GHG reductions, and culminate in the verification body's issuance of a report and statement that identifies the quantity of GHG reductions that can be issued to the offsite project. As part of the report and statement, the independent third party verifies that the offsite project has adhered to the pertinent protocol or methodology, to confirm that the offsite project's GHG reductions are real, permanent, quantifiable, enforceable, and additional.

Monitoring: Project applicants shall submit regular reports documenting the offsite project's achieved GHG emissions reductions over a specified time period (such as the previous or current calendar year).

Example Offsite Projects

- **Local building electrification programs**: Programs that target existing residential and commercial buildings in the project's vicinity for electrification, provided that such electrification actions are not already required by law or regulation, County building performance standards, or reach code requirements. For example, replacing a natural gas–fired heating, ventilation, and air conditioning system with an electric heat pump or replacing a gas stove with an induction cooktop.
- **Off-site EV chargers**: Programs that install EV charging stations, provided that such installations are not already required by law or regulation, or County reach code requirements and the forthcoming Zero Emission Vehicle Master Plan (Measure T6). For example, funding or directly installing EV chargers in multi-unit dwellings in disadvantaged or low-income areas, public locations (schools, libraries, city centers), workplaces, and key destinations (e.g., parks, recreation areas, sports arenas).
- **Local building solar programs**: Programs that target existing residential and commercial buildings in the project's vicinity for rooftop solar photovoltaic installations, provided that such installations are not already required by law or regulation, County building performance standards, or reach code requirements. For example, funding or directly installing rooftop solar installations or community solar systems.
- **Energy storage and microgrids**: Funding for or direct implementation of a microgrid to balance generation from non-controllable renewable power sources, such as solar, with distributed, controllable generation, such as natural gas–fueled combustion turbines; or a strategically deployed battery storage system to make the grid more flexible by unlocking renewable energy and replacing fossil fuel–generated electricity, especially during peak hours.
- **Truck and bus electrification programs**: Funding for the purchase of zero-emission vehicle trucks and buses to replace existing fossil fuel–powered trucks and buses; coordination with local transportation agencies and school districts and replacement of diesel- or gasoline-fueled buses with less-polluting technologies such as compressed natural gas, electric, hybrid-electric, fuel cell, or other commercially available technologies.
- **Hydrogen fuel**: Funding for or programs that provide renewable hydrogen fueling stations to nearby truck fleets, such as at logistics warehouses, or other uses of renewable hydrogen fuel as a replacement for fossil fuels.

Environmental Impacts Pursuant to CEQA

Project applicants' CEQA documents would be required to disclose the impacts of any offsite projects that are proposed for funding or implementation. The Final PEIR for the 2045 CAP evaluates the potential environmental impacts of the 2045 CAP's measures and actions. For any offsite projects implemented via this program, then, to the extent that such projects include types of activities similar to those contemplated by the 2045 CAP's measures and actions, the resulting environmental impacts would be expected to be similar to those disclosed in the Final PEIR.

Project applicants' CEQA documents may rely on the Final PEIR impact analysis for an offsite project similar to those contemplated by the 2045 CAP, unless a specific offsite project causes a new or substantially more severe impact for that project type not addressed in the Final PEIR.

Next Steps and Additional Guidance

This section represents a *framework* for the Offsite Program. The actual Offsite Program will be developed separately after the 2045 CAP is formally adopted and the Final PEIR is certified. Once the formal Offsite Program is developed, project applicants may use it to demonstrate consistency with the 2045 CAP as indicated above.

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Antelop Valley Logistics Center - West (AVLC - West) Project
Energy Calculations

Land Use	Electricity Use	
	(kWh/yr)	(MWh/yr)
Short-Term Storage Warehouses	599,086	599
Offices	1,425,623	1,426
Passenger Vehicle Parking Lot	735,621	736
Roadway and Utility Improvement	0	0
Loading Docks	112,128	112
Totals	2,872,458	2,872

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual Energy Consumption (2021)	Percentage Increase Countywide
Electricity (MWh)	2,872	65,374,721	0.0044%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

Antelop Valley Logistics Center - West (AVLC - West) Project
Energy Calculations

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Grading	Graders	1	8	148	0.41	2.43	8	66	1281.56
Grading	Excavators	2	8	36.0	0.38	0.55	16	66	577.84
Grading	Tractors/Loaders/Backhoes	2	8	84.0	0.37	1.24	16	66	1312.82
Grading	Scrapers	2	8	423	0.48	8.12	16	66	8576.41
Grading	Rubber Tired Dozers	1	8	367	0.40	5.87	8	66	3100.42
Construction	Forklifts	3	8	82.0	0.20	0.66	24	462	7273.73
Construction	Generator Sets	1	8	14.0	0.74	0.41	8	462	1531.62
Construction	Cranes	1	7	367	0.29	4.26	7	462	13767.78
Construction	Welders	1	8	46.0	0.45	0.83	8	462	3060.29
Construction	Tractors/Loaders/Backhoes	3	7	84.0	0.37	1.24	21	462	12061.53
Paving	Pavers	2	8	81.0	0.42	1.36	16	44	958.00
Paving	Paving Equipment	2	8	89.0	0.36	1.28	16	44	902.25
Paving	Rollers	2	8	36.0	0.38	0.55	16	44	385.23
Architectural Coating	Air Compressors	1	6	37.0	0.48	0.71	6	132	562.64
								Total:	55,352.11

Notes:

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

County Offroad Gallons	374,830,981
2023	0.0148%

Antelop Valley Logistics Center - West (AVLC - West) Project
Energy Calculations

WORKER TRIPS						
Phase	**Phase Length (# days)**	**# Worker Trips**	**Worker Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	66	20	18.5	24,420	**24.90284233**	980.61
Building Construction	462	838	18.5	7,162,386		287,613.19
Paving	44	15	18.5	12,210		490.31
Architectural Coating	132	168	18.5	410,256		16,474.26
						305,558.37

VENDOR TRIPS						
Phase	**Phase Length (# days)**	**# Vendor Trips**	**Vendor Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)**	**Total Fuel Consumption**
Grading	66	0	10.2	0	**8.343886151**	0.00
Building Construction	462	330	10.2	1,555,092		186,375.03
Paving	44	0	10.2	0		0.00
Architectural Coating	132	0	10.2	0		0.00
						186,375.03

HAULING TRIPS						
Phase	**Phase Length (# days)**	**# Hauling Trips**	**Hauling Trip Length**	**Total VMT**	**Fuel Consumption Factor (Miles/Gallon/Day)[1]**	**Total Fuel Consumption**
Grading	66	6.82	20	9,002		1,078.92
Building Construction	462	0	20	0		0.00
Paving	44	0	20	0	**8.343886151**	0.00
Architectural Coating	132	0	20	0		0.00
						1,078.92
				TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION		**493,012.32**
					County On-road Gallons	3,929,799,320
					2023	0.0125%

Antelop Valley Logistics Center - West (AVLC - West) Project
Energy Calculations

Vehicle Type	Percent of Vehicle Trips[1]	Daily Trips[2]	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon)[3]	Total Annual Fuel Consumption (gallons)[4]
Warehouse					
Passenger Cars	0.39	1,070	7,557,587	22	343,527
Light/Medium Trucks	0.37	1,005	7,097,827	17.3	410,279
Heavy Trucks/Other	0.24	663	4,678,905	6.4	731,079
Warehouse Total[6]	*1.00*	2,738	*19,334,320*	--	*1,484,885*
Office and Other Land uses					
Passenger Cars	0.55	355	2,508,766	22	114,035
Light/Medium Trucks	0.42	272	1,924,047	17.3	111,217
Heavy Trucks/Other	0.03	22	157,146	6.4	24,554
Office and Other Land Uses Total[6]	*1.00*	650	*4,589,959*	--	*249,805*
				ALL LAND USES TOTAL	*1,734,690*

Notes:

1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.

2. Daily Trips taken from ITE manual.

3. Average fuel economy derived from the Department of Transportation.

4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).

5. Values may be slightly off due to rounding.

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

County On-Road	
2025	
3,742,125,048	
0.0464%	

APPENDIX B
Biological Resources Documentation

Michael Baker
INTERNATIONAL

We Make a Difference

February 8, 2023 JN 192691

NorthPoint Development
Attention: Mr. Chandler Elliott
6010 West Amelia Earhart Drive
Salt Lake City, UT 84116

SUBJECT: Delineation of Jurisdictional Waters for the proposed Antelope Valley Logistics Center West (AVLC West) Development Project located in unincorporated County of Los Angeles, California

Dear Mr. Elliott:

This delineation was prepared for NorthPoint Development to delineate the U.S. Army Corps of Engineers' (Corps), Lahontan Regional Water Quality Control Board's (Regional Board), and California Department of Fish and Wildlife's (CDFW) jurisdictional authority within the proposed AVLC West Development Project. The proposed project is generally located north of West Avenue G, south of West Avenue F, west of Sierra Highway, and east of the Antelope Valley Freeway/State Route 14 (SR-14) north of the City of Lancaster and within the northern section of the unincorporated County of Los Angeles, California (*refer to Figures 1 and 2*). The fieldwork for this delineation was conducted on November 29, 2022.

Project Description and Location

The objective of the proposed AVLC West development project is to build a warehouse/logistics center. Two buildings with a total of approximately two million square feet of building area, within the westerly portion of the subject site. This memo addresses the anticipated jurisdictional limits of the project.

Summary of Regulations

There are four key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The Corps and U.S. Environmental Protection Agency (EPA) jointly regulate activities pursuant to Section 404 of the Federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. The CDFW regulates activities under the Fish and Game Code Section 1600-1616, and the Regional Board regulates activities pursuant to Section 401 of the CWA and the California Porter-cologne Water Quality Control Act/State Wetland Definition and Procedures for Discharges of Dredged or Fill Material of Waters of the State.

5 Hutton Centre Dr Ste 500 | Santa Ana, CA 92707
Office: 949.855.3687 | Mobile: 949.680.9355

Site Conditions

The approximate 119-acre project site is located within Township 8 North Range 12 West Section 33 within the San Bernardino Base and Meridian. The project site consists of disturbed land on which there has been evidence of homeless encampments, illegal dumping, and off-road vehicle activity (*refer to Appendix A for Site Photographs*). Elevation in the project site ranges approximately 2,301 feet to 2,309 feet above mean sea level. Due to the disturbed nature of the site, no riparian vegetation, aquatic drainage features, or evidence of hydrology was observed during the site visit. According to the U.S. Geological Survey National Hydrography Dataset, the end of an unnamed ephemeral blue line drainage is present within the project's western footprint. While shown entering the project site's border, the blue line in fact terminates at the Antelope Valley Freeway/SR-14 and does not flow further east into the project area. Photo revisions of SR-14 are noted on the topographic map, and when constructed, flows that drain under the freeway are then collected in north/south drainage features. No ordinary high-water mark (OHWM), streambed, or other erosive evidence was noted on-site.

Conclusion and Recommendations

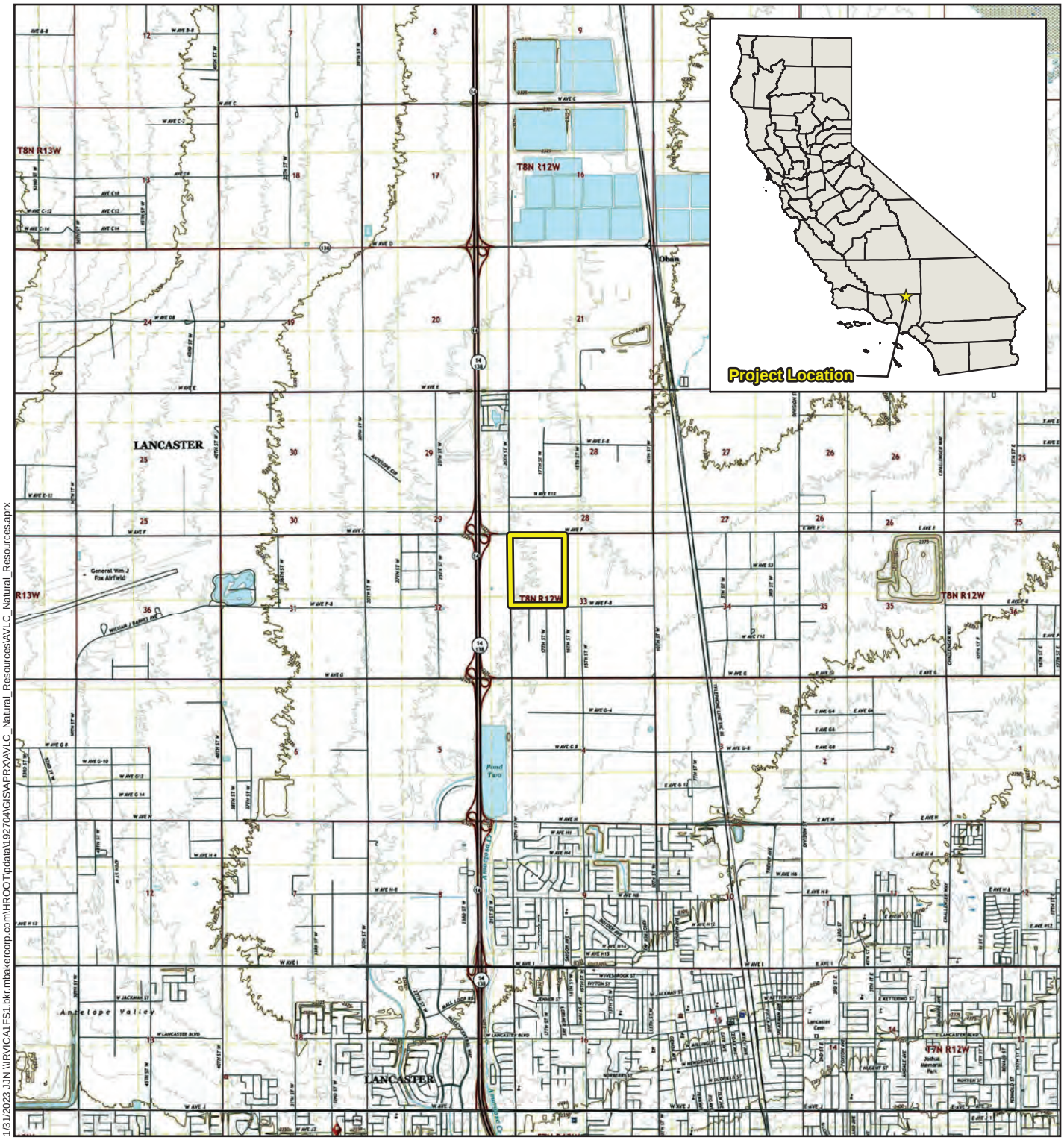
The project area appears to consist of uplands, typical of City of Lancaster and high desert environmental. At this time, no regulatory approvals would be anticipated due to the lack of jurisdiction within the property. This memorandum presents Michael Baker's best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies; however, as with any jurisdictional delineation, only the regulatory agencies can make a final determination of jurisdiction.

Please contact me at (949) 855-3687 or at RBECK@mbakerintl.com with any questions you may have regarding this project.

Sincerely,



Richard Beck, PWS, CEP, CPESC
Vice President
Planning and Environmental Sciences



1/31/2023 JJN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

Project Site (118.55 acres)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Regional and Project Vicinity

Michael Baker INTERNATIONAL

0 0.5 1 Miles

Source: USGS 7.5-Minute topographic quadrangle maps: *Lancaster East, Lancaster West, Rosamond (2022), and Rosamond Lake (2021)*

Figure 1



2/1/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

Project Site (118.55 acres)

Reference Point

Michael Baker INTERNATIONAL

0 175 350 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Project Site

Figure 2



Photograph 1: Standing near northeast corner of the project site, facing southeast.



Photograph 2: Standing near the southwest corner of the project site, facing north.



Photograph 3: Standing in the center of the project site, facing south.



Photograph 4: Standing at 17th Street West and the middle of the south boundary of the project site, facing west.



Photograph 5: Standing at 17th Street West and the middle of the south boundary of the project site, facing northeast.



Photograph 6: Standing in southeast quadrant of the project site, facing east.



Photograph 7: Standing at northeast corner of the project site, facing west.



Photograph 8: Standing at 17th Street West and northern boundary of the project site, facing south.

ANTELOPE VALLEY LOGISTICS CENTER WEST PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

Biological Resources Assessment

Prepared For:

NORTHPOINT DEVELOPMENT
6010 West Amelia Earhart Drive
Salt Lake City, UT 84116
Contact: *Chandler Elliott*
626.524.5519

Prepared By:

MICHAEL BAKER INTERNATIONAL
5 Hutton Centre Drive, Suite 500
Santa Ana, California 92707
Contact: *Arthur Popp*
949.855.3687

April 2024
JN 192691

ANTELOPE VALLEY LOGISTICS CENTER-WEST PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

Biological Resources Assessment

The undersigned certify that the statements furnished in this report and exhibits present data and information required for this biological evaluation, and the facts, statements, and information presented is a complete and accurate account of the findings and conclusions to the best of our knowledge and beliefs.

John R. Parent

John Parent
Biologist

Arthur Popp

Arthur Popp
Natural Resources Technical Manager

April 2024
JN 192691

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ACRONYMS AND ABBREVIATIONS

° F	degrees Fahrenheit
AMM	Avoidance and Minimization Measures
amsl	above mean sea level
APN	Assessor's Parcel Numbers
AVLC – West	Antelope Valley Logistics Center – West
BLM	Bureau of Land Management
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFGC	California Fish and Game Code
CIRP	California Inventory of Rare and Endangered Plants
CNDDB	California Natural Diversity Database RareFind 5
CNPS	California Native Plant Society
CRPR	California Rare Plant Rank
CWA	federal Clean Water Act
DETO	desert tortoise
FESA	federal Endangered Species Act
FE	federally Endangered
FP	Fully Protected
FT	federally Threatened
GIS	Geographic Information System
IPaC	Information for Planning and Consultation Project Planning Tool
MBTA	Migratory Bird Treaty Act
Michael Baker	Michael Baker International
MGS	Mohave ground squirrel
mph	miles per hour
project	Antelope Valley Logistics Center Project
PWS	Professional Wetland Scientist
RWQCB	Regional Water Quality Control Board
SE	State Endangered
SEA	Significant Ecological Area
SSC	Species of Special Concern
ST	State Threatened
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers

USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WEAP	Worker Environmental Awareness Program
WL	Watch List
WoS	waters of the State
WoUS	waters of the U.S.

Section 1 Introduction

This report contains the findings of Michael Baker International's (Michael Baker) biological resources assessment for the proposed Antelope Valley Logistics Center – West (AVLC - West) (project or project site). Michael Baker biologists conducted a general field survey/habitat assessment on November 21 and 29, 2022. Additional site visits were conducted in 2023 to conduct focused surveys for burrowing owl (*Athene cunicularia*) on March 8, March 28, May 9, June 5, and July 6, 2023, and for rare plants on May 1, May 23, and June 16, 2023. The field surveys were conducted to characterize existing site conditions and assess the potential for special-status[1] biological resources to occur within the project site that could pose a constraint to implementation of the proposed project. Special attention was given to the suitability of habitats within the project site and their potential to support special-status biological resources that were identified during reviews of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database RareFind 5 (CNDDB; CDFW 2023a), the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants of California (CIRP; CNPS 2023), and the U.S. Fish and Wildlife Service (USFWS) online Information for Planning and Consultation environmental review tool (IPaC; USFWS 2023a), and other databases as potentially occurring in the vicinity of the project site.

1.1 PROJECT LOCATION

The project site is generally located north of West Avenue G, east of Sierra Highway, south of West Avenue F, and west of State Route 14 in an unincorporated area of Los Angeles County, California (refer to Figure1, *Regional and Project Vicinity*). The project site is depicted in Section 33 of Township 8 North, Range 12 West, on the U.S. Geological Survey's (USGS) *Lancaster West, California* 7.5-minute quadrangle. The site encompasses approximately 119 acres (refer to Figure 2, *Project Site*).

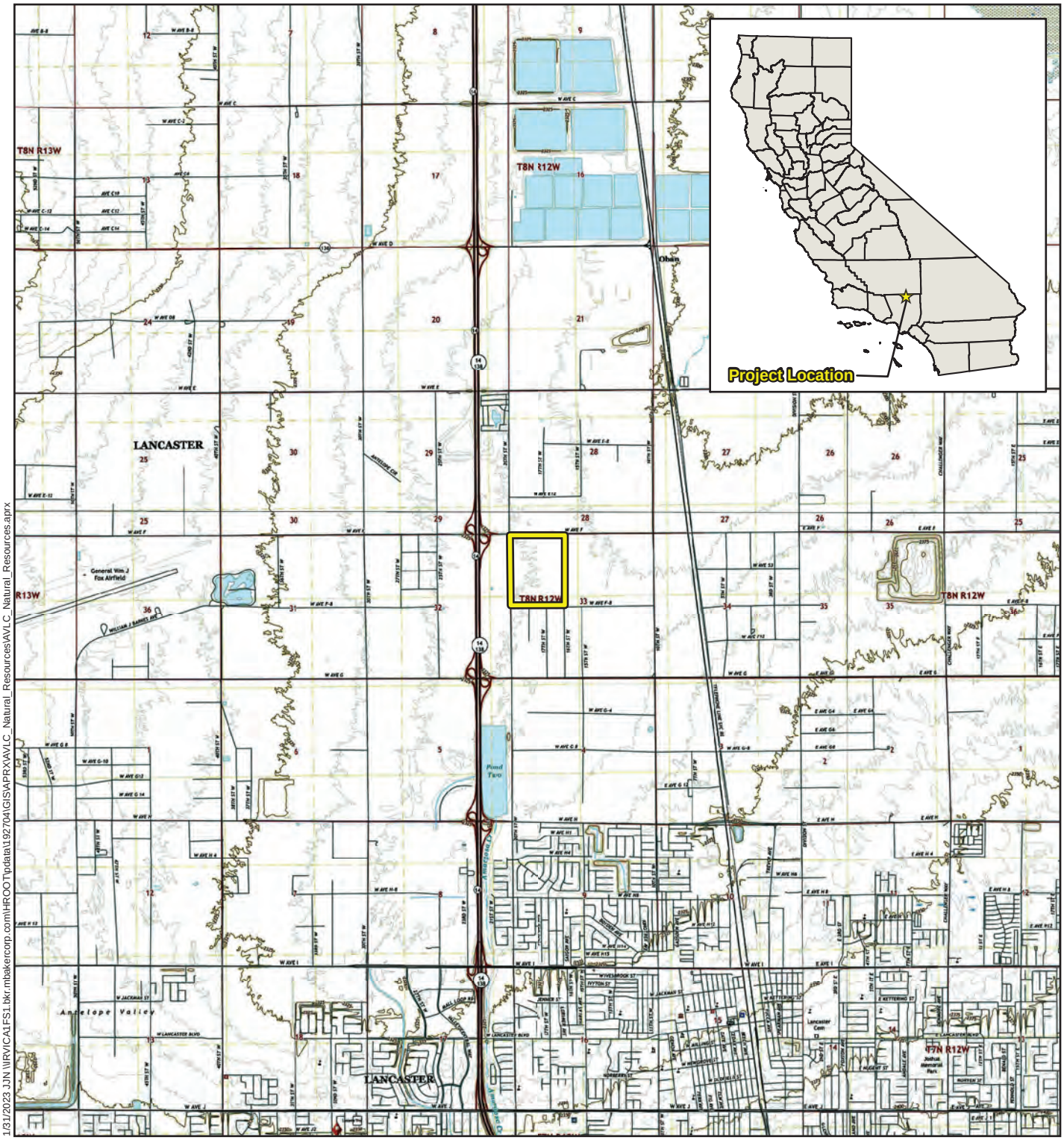
1.2 PROJECT DESCRIPTION

The proposed project would include construction of two speculative industrial warehouse buildings on approximately 121 acres. Each new building would consist of an approximate 1,004,000 square-foot footprint, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces; refer to Exhibits 2-3, Conceptual Site Plan. The project applicant proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town & County Antelope Valley Area Plan.

To provide access to the project site, Avenue F would be partially improved along the northly property boundary in addition to partial improvements of 20th Street West along the westerly property boundary and Avenue F-8 along the southernly boundary and full improvements of a new proposed public road on the

[1] As used in this report, "special-status" refers to species that are either federally-/State-listed, proposed, or candidates; species that have been designated a California Rare Plant Rank by the California Native Plant Society; species designated as Fully Protected, Species of Special Concern, or Watch List by the California Department of Fish and Wildlife; or State/locally rare vegetation communities.

east side of the property (refer to Figure 3, *Offsite Improvements*). Additional ancillary improvements such as landscaping and utility work would also be required and are included as part of the project.



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Legend

Project Site (118.55 acres)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Regional and Project Vicinity

Michael Baker INTERNATIONAL

0 0.5 1 Miles

Source: USGS 7.5-Minute topographic quadrangle maps: *Lancaster East, Lancaster West, Rosamond (2022), and Rosamond Lake (2021)*

Figure 1



2/1/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

Project Site (118.55 acres)

Reference Point

Michael Baker INTERNATIONAL

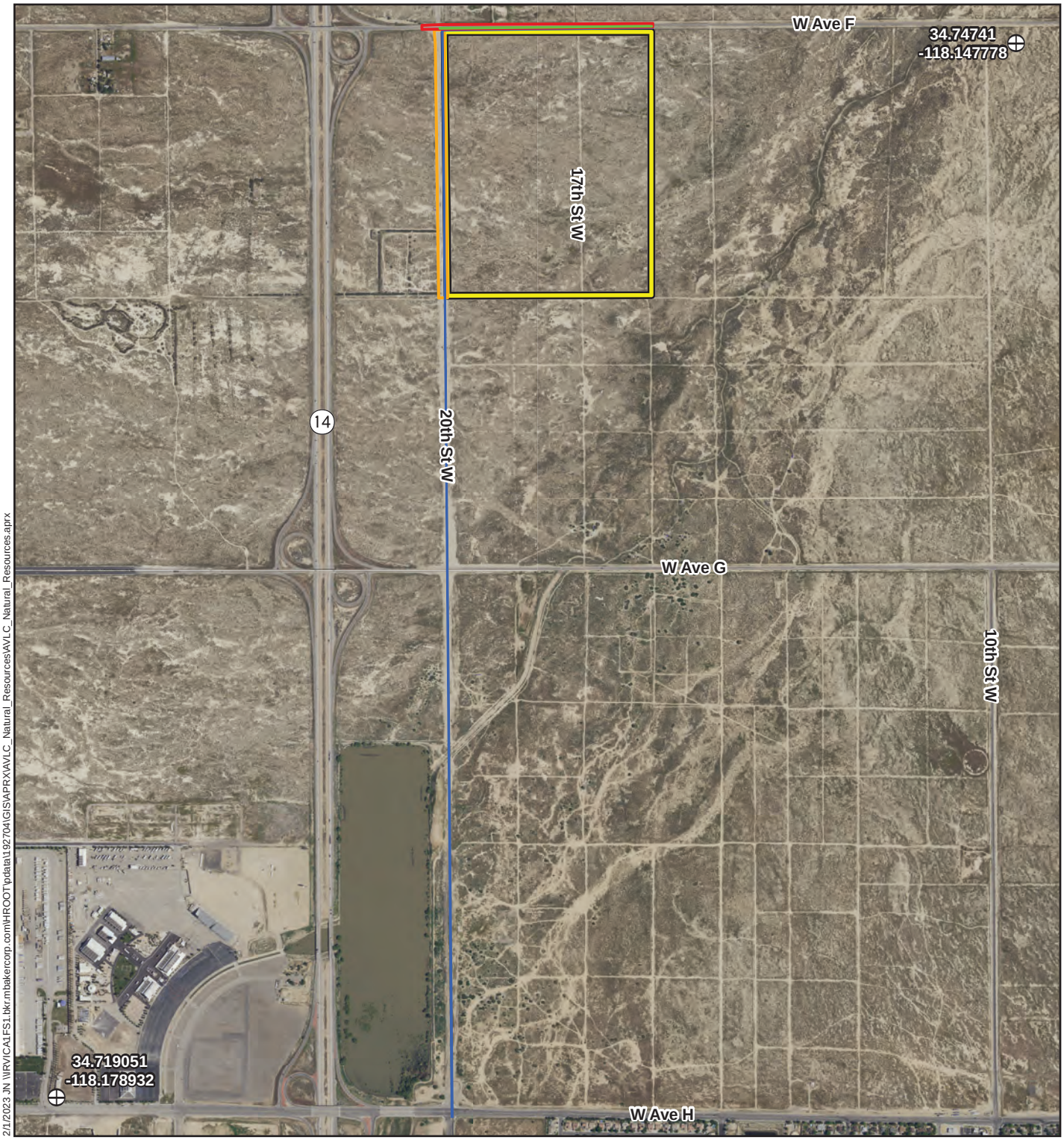
0 175 350 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Project Site

Figure 2



2/1/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Reference Point

Offsite Improvements

- 20th Street Road Improvements
- Ave F Improvements - Turn Lanes/Possible Widening
- Sewer Extension - AVLC West
- Water - AVLC West

Michael Baker INTERNATIONAL

0 700 1,400 Feet

Source: NAIP (2020)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Offsite Improvements

Figure 3

Section 2 Methodology

Michael Baker conducted thorough literature reviews and records searches to determine which special-status biological resources have the potential to occur on or within the general vicinity of the project site prior to conducting the field surveys. General habitat assessments or field surveys were conducted to document existing conditions and determine the potential for special-status plant and wildlife species to occur within the project site.

2.1 LITERATURE REVIEW

Prior to conducting the field surveys, literature reviews and records searches were conducted for special-status biological resources[2] potentially occurring on or within the vicinity of the project site. Special-status plant and wildlife occurrence records obtained during the most recent literature review from the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles were identified through a query of the CNDDB(CDFW 2023a), CIRP (CNPS 2023), and for the project region through a review of IPaC (USFWS 2023a).

The current regulatory/conservation status of special-status plant and wildlife species was verified through lists and resources provided by the CDFW, specifically the *Special Animals List* (CDFW 2023b), *State and Federally Listed Endangered and Threatened Animals of California* (CDFW 2023c), *Special Vascular Plants, Bryophytes, and Lichens List* (CDFW 2023d), and *State and Federally Listed Endangered, Threatened, and Rare Plants of California* (CDFW 2023e). USFWS-designated Critical Habitat for species listed under the federal Endangered Species Act (FESA) was reviewed online via the Critical Habitat Mapper (USFWS 2023b).

In addition to the databases referenced above, Michael Baker reviewed a report by Rincon (2022) summarizing results of a database search and field survey of the project site conducted in May 2022. Standard field guides and texts were reviewed for specific habitat requirements of special-status and non-special-status biological resources and are referenced in the appropriate sections below. Aerial photography was also reviewed prior to the field survey to locate potential natural corridors and linkages that may support the movement of wildlife through the area.

On-site and adjoining soils were researched prior to conducting the habitat assessment using the United States Department of Agriculture (USDA) *Custom Soil Resource Report for Antelope Valley Area, California* (USDA 2022). In addition, a review of the local geological conditions and historical aerial photographs (Google, Inc. 2022) was conducted to assess the ecological changes and disturbances that may

[2] As used in this report, "special-status" refers to species that are either federally-/State-listed, proposed, or candidates; species that have been designated a California Rare Plant Rank by the California Native Plant Society; species designated as Fully Protected, Species of Special Concern, or Watch List by the California Department of Fish and Wildlife; and State/locally rare vegetation communities.

have occurred within the project site, as well as the probability of local wetland presence through the National Wetlands Inventory Mapper (USFWS 2022c).

The literature review provided a baseline from which to inventory the existing biological resources and evaluate the suitability of the project site to support special-status biological resources. Additional occurrence records of those species that have been documented on or within the vicinity of the project site were derived from database queries including the Calflora database (Calflora 2022). Additionally, standard field guides, texts and sources were used such as species accounts provided by Birds of the World (Billerman et. al 2020) and Cornell Lab of Ornithology's eBird Database (eBird 2022). The CNDDB was used in conjunction with GIS ArcView software to identify the locations of special-status species occurrence records identified within the USGS *Rosamond, Rosamond Lake, Lancaster East, and Lancaster West, California* 7.5-minute quadrangles. Refer to Section 5 for a complete list of technical references that were reviewed by Michael Baker.

2.2 FIELD SURVEY/HABITAT ASSESSMENT

Michael Baker biologists conducted a biological field survey/habitat assessment on November 21, and November 29, 2022, to document existing conditions and assess the potential for special-status biological resources to occur within or adjacent to the boundaries of the project site. All field surveys were conducted in accordance with applicable protocols and in a way to maximize the detectability of special-status species that may be present within the project site during the time of the survey. No limitations or restrictions on direct access to the project site were encountered by Michael Baker during the field surveys. Parcels surrounding the project site were scanned with binoculars from public rights-of-way. Refer to Table 1 below for a summary of specific field survey dates, times, surveyors, and weather conditions.

Table 1: Survey Dates, Timing, Surveyors, and Weather Conditions

Date	Surveyors*	Time (start / finish)	Temperature (°F) (start / finish)	Wind Speed (mph) (start / finish)
November 21, 2022	AP, JP	0800 / 1500	30 sunny / 71 cloudy	0 – 0
November 29, 2022	RW	0730 / 1110	45 sunny / 64 sunny	1 – 5
*AP = Arthur Popp, JP = John Parent, RW = Ryan Winkleman				

Vegetation communities preliminarily identified on aerial photographs during the literature review were verified in the field by walking meandering transects throughout the project site. Naturally vegetated areas typically have a higher potential to support special-status plant and wildlife species than areas that are highly disturbed or developed, which have lower quality and/or reduced amounts of suitable habitat for plants and wildlife. All plant and wildlife species observed during field surveys conducted by Michael Baker across the project site, as well as dominant plant species within each vegetation community, were recorded in a field notebook. In addition, site characteristics such as soil condition, topography, hydrology, anthropogenic disturbances, indicator species, and the overall condition of on-site vegetation communities were recorded.

2.3 VEGETATION COMMUNITIES

Vegetation communities occurring within the project site were delineated on an aerial photograph during the field surveys and later digitized using the ArcView Geographic Information System (GIS) software to quantify the area of each vegetation community in acres. Vegetation communities occurring within the project site were classified in accordance with descriptions provided in the *Manual of California Vegetation* (Sawyer et al. 2009).

2.4 PLANTS

Plant species observed during the field surveys were identified by visual characteristics and morphology in the field and recorded in a field notebook. Unfamiliar plants were photographed in the field and later identified in the laboratory using taxonomic guides. Plant nomenclature used in this report follows the *Jepson Manual: Vascular Plants of California, Second Edition* (Baldwin et al. 2012). In this report, scientific names are provided immediately following common names of plant species (first reference only).

2.5 WILDLIFE

Wildlife species detected during the field surveys by sight, calls, tracks, scat, or other types of evidence were recorded in a field notebook. Field guides used to assist with identification of species during the habitat assessment included *The Sibley Guide to Birds* (Sibley 2014) for birds, *A Field Guide to Western Reptiles and Amphibians* (Stebbins 2003) for herpetofauna, and *A Field Guide to Mammals of North America* (Reid 2006). Although common names of wildlife species are well standardized, scientific names are provided immediately following common names of wildlife species in this report (first reference only). To the extent possible, nomenclature of birds follows the most recent annual supplement of the American Ornithological Union's *Checklist of North American Birds* (Chesser et al. 2019), nomenclature of amphibians and reptiles follows *Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding* (Crother 2017), and nomenclature for mammals follows the *Bats of the United States and Canada* (Harvey et al. 2011) and *Revised Checklist of North American Mammals North of Mexico* (Bradley et al. 2014).

2.6 OTHER STUDIES

2.6.1 BURROWING OWL FOCUSED SURVEYS

Michael Baker biologists conducted focused surveys for burrowing owls (*Athene cunicularia*; Species of Special Concern [SSC]) on March 8, March 28, May 9, June 5, and July 6 during the 2023 breeding season. A focused burrow survey and focused surveys were completed in accordance with the survey guidelines and protocols provided in the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). The results of focused burrowing owl surveys are summarized in Section 3.6.2 of this report and the survey report is included as Appendix E.

2.6.2 RARE PLANT SURVEYS

No records of any special-status plant species were identified within AVLC-West during the literature search; however, Mojave spineflower (*Chorizanthe spinosa*) designated with a California Rare Plant Rank (CRPR) by the California Native Plant Society was recorded within the project site during a reconnaissance-level survey in May 2022 (Rincon 2022). No federally or State-listed species were identified during the 2022 survey. To provide a more systematic and comprehensive survey for this and any other rare plants that may occur on-site, Michael Baker conducted rare plant surveys during the regional blooming period (generally February through May) for special-status plant species, confirming the presence and extent of the previously recorded species and determining the presence/absence of any further special-status plants. Surveys followed CDFW (2018) protocols described in *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities*. Survey protocols would be implemented in conjunction with protocols formulated by USFWS (2000) for the presence of special-status plant species in *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants*. Three (3) surveys during the regional blooming period were conducted during May and June 2023.

The results of rare plant surveys are summarized in Section 3.6.1 of this report and a survey report summarizing the methods and results of the survey is included as Appendix D to this report.

2.6.3 CROTCH BUMBLE BEE

Dudek conducted protocol-level presence/absence surveys for Crotch bumble bee (*Bombus crotchii*) in 2023. Along with three other native bumble bee species, Crotch bumble bee was designated as a Candidate for listing as Endangered under the California Endangered Species Act (CESA) in 2022 and is afforded the protection of CESA while the California Fish and Game Commission determines if listing the species is warranted. While no standardized survey methodology is currently available from CDFW for Crotch bumble bee, the following survey methods were reviewed: (1) *U.S. National Protocol Framework for the Inventory and Monitoring of Bees* for North American bumble bees, prepared by S. Droege, J.D. Engler, E. Sellers and L.E. O'Brien (2017); and (2) Survey Protocols for the Rusty Patched Bumble Bee (*Bombus affinis*), a federally listed bumble bee located in the Midwestern United States, prepared by the U.S. Fish and Wildlife Service (2019). In June 2023, CDFW released the "Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species". Following survey protocols and considerations from these documents, Dudek conducted one (1) of the recommended three (3) survey passes on July 11, 2023, which coincided with the Colony Active Period (April through August) for Crotch bumble bee (CDFW 2023a). The surveys focused on surveying patches of blooming plants and looking at nest resources suitable for bumble bee use (i.e., small mammal burrows, bunch grasses with a duff layer, thatch, hollow trees, rock walls, and brush piles). Results of the Dudek study are provided in a memo report, *Crotch Bumble Bee Survey for the AVLC West Project, Lancaster, Los Angeles County, California* (Dudek 2023), prepared under separate cover, and summarized in Section 3.6.2 of this report.

2.6.4 DELINEATION OF STATE AND FEDERAL JURISDICTIONAL WATERS

Michael Baker qualified wetland delineators Richard Beck, April Nakagawa, and Lauren Zameito, conducted a jurisdictional delineation for the proposed project on November 29, 2022 to identify and map the extent of waters of the U.S. (WoUS), including potential wetlands, and waters of the State (WoS) within the boundaries of the project site, if present. During the field delineation, Michael Baker utilized the methods outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0* (United States Army Corps of Engineers [USACE] 2008) to document the presence and extent of jurisdictional features that would fall under the regulatory authority of the USACE, the Regional Water Quality Control Board (RWQCB), and the CDFW. The results of Michael Baker's jurisdictional delineation are provided within the *Delineation of Jurisdictional Waters for the proposed Antelope Valley Logistics Center West (AVLC West)* (Michael Baker 2023), prepared under separate cover, and summarized in Section 3.5 of this report.

Section 3 Results

The project site is located within an unincorporated area of Los Angeles County, north of West Avenue G, east of State Route 14, west of 15th Street West, and directly south of West Avenue F. The project site is approximately 119 acres in size and is mainly comprised of undisturbed natural vegetation communities, with generally flat topography. Based on a review of Google Earth historical aerial imagery, there has been no change within the project site since 2003 (Google, Inc. 2022). During the field survey, there were observations of homeless encampments and illegal dumping within the western third of the project site in the vicinity of 20th Street West, as well as occasional off-road vehicle tracks throughout the project site. Representative photographs taken throughout the project site are included in Appendix A. Land uses surrounding the project site to the north, east, south, and west consist of vacant land that is generally undisturbed, with a residential development further to the south of the project site.

3.1 TOPOGRAPHY AND SOILS

The project site is relatively flat, with on-site surface elevation ranges from approximately 2,305 to 2,311 feet above mean sea level (amsl). According to the *Custom Soil Resource Report for Antelope Valley Area, California* (USDA 2022), the entire project site is underlain by Pond-Oban complex (Px) soils. This soil complex is moderately well drained with a soil profile of silt or clay loamy soils. Refer to Figure 4, *USDA Soils*, for a depiction of soil units within the project site.

3.2 VEGETATION COMMUNITIES AND LAND COVER TYPES

One natural vegetation community, disturbed *Atriplex confertifolia* Shrubland Alliance, was observed and mapped within the boundaries of the project site. In addition, the project site contains one (1) land cover type classified as disturbed. These vegetation communities and land cover types are depicted on Figure 5, *Vegetation Communities and Land Cover Types*, and described in further detail below. The area of vegetation communities and land cover types identified within the project site and the impacts proposed to each are presented in Table 2 below. In addition, refer to Appendix B for a complete list of plant species that were observed within the project site during all field surveys conducted by Michael Baker across the project site.

Table 2: Vegetation Communities/Land Cover Types and Proposed Impacts

Vegetation Community/Land Cover Type	Acres within Project Site
Disturbed *Atriplex confertifolia* Shrubland Alliance	116.86
Disturbed habitat	1.69
TOTAL	**118.55**



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Legend

- Project Site (118.55 acres)
- Px — Pond-Oban complex
- ⊕ Reference Point

Michael Baker INTERNATIONAL

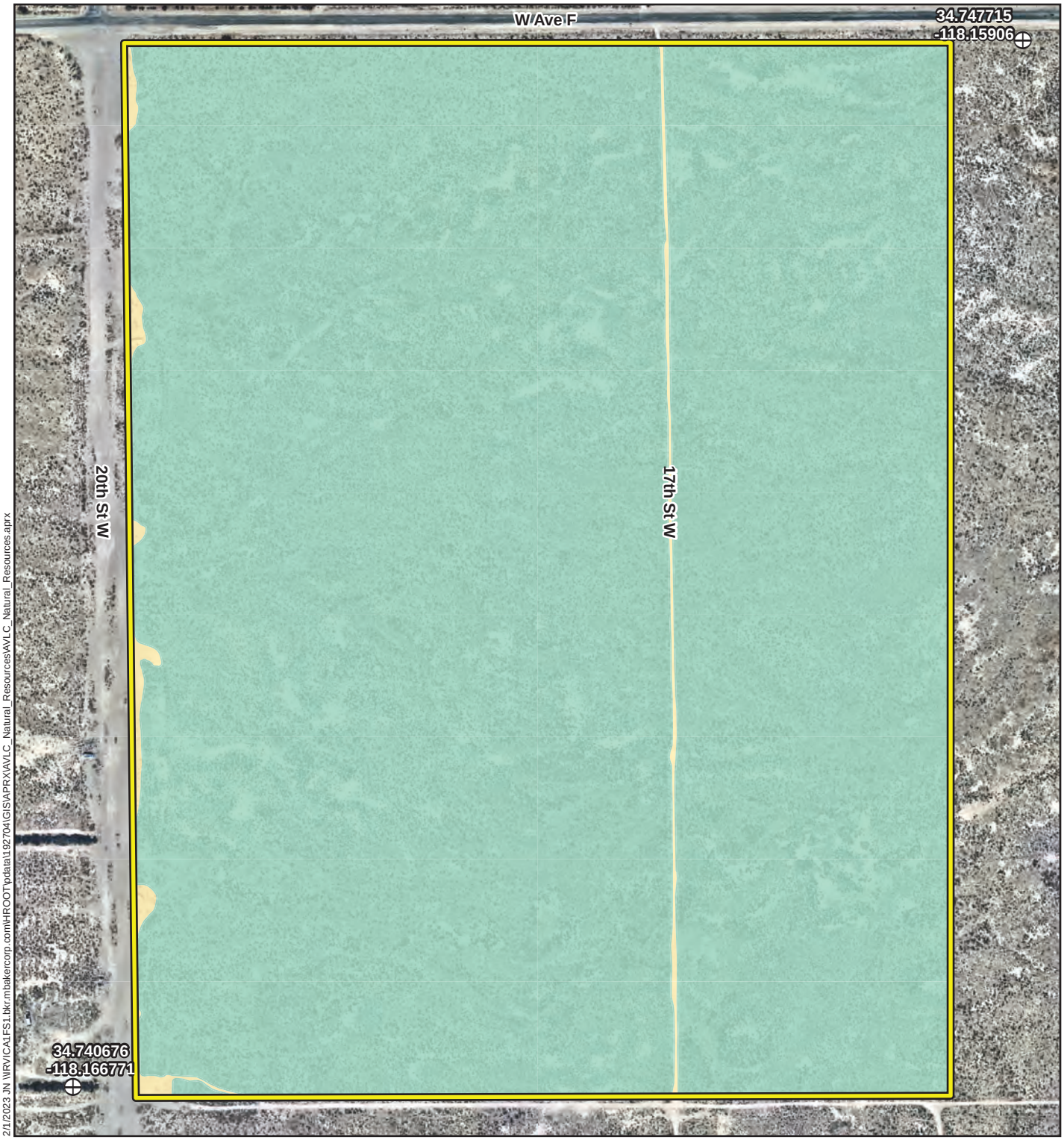
0 175 350 Feet

Source: Nearmap (09/2021), USDA (09/2022)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

USDA Soils

Figure 4



2/1/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Reference Point
- Allscale Scrub (116.86 acres)
- Disturbed Habitat (1.69 acres)

Michael Baker INTERNATIONAL

0 175 350 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Vegetation Communities and Land Cover Types

Figure 5

Native Vegetation Communities

This category includes vegetation communities dominated by plant species native to California.

3.2.1 DISTURBED ATRIPLEX CONFERTIFOLIA SHRUBLAND ALLIANCE

Nearly the entire project site is composed of *Atriplex confertifolia* Shrubland Alliance, dominated by shadscale saltbush (*Atriplex confertifolia*), with allscale saltbush (*Atriplex polycarpa*) a co-dominant species observed within this community. Fourwing saltbush (*Atriplex canescenes*) and rubber rabbitbrush (*Ericameria nauseosa*) were also occasionally observed. Herbaceous species observed within the project site include non-native short pod mustard (*Hirschfeldia incana*), brome grasses (*Bromus* sp), and Russian thistle (*Salsola* sp.), and native salt grass (*Distichlis spicata*). Plant species identified during field surveys conducted by Michael Baker across the project site are included in Appendix B.

Land Cover Types

3.2.2 DISTURBED

Approximately 1.69 acres of disturbed habitat is located along the western edge of the project site, along 20th Street West, where activities related to off-road vehicle use, illegal dumping, and homeless encampments have disturbed or removed the natural vegetative cover, resulting in areas primarily composed of bare ground or with a sparse cover of non-native weedy species and an occasional individual native scrub.

Additionally, the off-site improvement areas that are a part of the project and associated with utilities to service the project coincide with areas that have been previously disturbed/developed including West Avenue F along the northern perimeter and 20th Street West along the western perimeter (Figure 3). West Avenue F is a paved roadway with disturbed roadside habitat within its right-of-way, while 20th Street West is a dirt road, flanked by areas that have been disturbed by human use.

3.3 WILDLIFE

Natural vegetation communities provide wildlife foraging habitat, nesting/denning sites, and shelter from adverse weather or predation. This section provides a general discussion of those wildlife species that were observed during the field surveys or that are expected to occur based on existing site conditions. The discussion is to be used as a general reference and is limited by the season, time of day, and weather conditions during which the field surveys were conducted. Wildlife detections were based on calls, songs, scat, tracks, burrows, and direct observation. Refer to Appendix B for a complete list of wildlife species observed during the field surveys.

3.3.1 FISH

No fish or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) with frequent sources of water that would be sufficient to support populations of fish were observed in the project site during the field survey. Therefore, no fish are expected to occur within the project site.

3.3.2 AMPHIBIANS

No amphibians or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) that would provide suitable breeding habitat for amphibians were observed within the project site during the field survey. Therefore, no amphibians are expected to occur within the project site.

3.3.3 REPTILES

No reptile species were observed during the field surveys. Habitat within the project site is suitable for a number of other common reptilian species known from the region, such as western side-blotched lizard (*Uta stansburiana elegans*), western zebra-tailed lizard (*Callisaurus draconoides rhodostictus*), northern desert iguana (*Dipsosaurus dorsalis dorsalis*), desert spiny lizard (*Sceloporus magister*), Great Basin whiptail (*Aspidoscelis tigris tigris*), and red racer (*Coluber flagellum piceus*). The federally and State- listed threatened desert tortoise (*Gopherus aggassizii*) is also known to occur in vegetative community present in the project site. This species are discussed further in Section 3.6.2.

3.3.4 BIRDS

Common bird species that were observed within or adjacent to the project site included common raven (*Corvus corax*), say's phoebe (*Sayornis saya*), white-crowned sparrow (*Zonotrichia leucophrys*), house finch (*Haemorhous mexicanus*), and northern mockingbird (*Mimus polyglottos*). Refer to Appendix B for a full list of observed species within and adjacent to the project site.

Nesting birds are protected pursuant to the federal Migratory Bird Treaty Act (MBTA) of 1918 and the California Fish and Game Code[3] (CFGC). No active bird nests or birds displaying nesting behaviors were observed within the project site during the field surveys. *Atriplex confertifolia* Shrubland habitat within the project site provides suitable nesting opportunities for a variety of resident and migratory bird species, including those birds that nest on open ground (e.g., burrowing owl).

3.3.5 MAMMALS

The project site has the potential to support a variety of mammalian species; however, most mammalian species in the region are nocturnal and are difficult to observe during a diurnal habitat assessment. Black-

[3] Section 3503 makes it unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by CFGC or any regulation made pursuant thereto; Section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey); and Section 3513 makes it unlawful to take or possess any migratory non-game bird except as provided by the rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA, as amended (16 U.S.C. § 703 *et. sq.*).

tailed jackrabbit (*Lepus californicus*) and California ground squirrel (*Otospermophilus beecheyi*) were the only species directly observed during the field surveys. Other common mammalian species that may occur within the project site include coyote (*Canis latrans*), and white-tailed antelope squirrel (*Ammospermophilus leucurus*). Additionally, burrows/dens potentially suitable for desert kit fox (*Vulpes macrotis arsipus*) were observed on-site, although no individuals or sign of the species was observed.

There is no suitable roosting habitat for bat species (Order Chiroptera) within the project site, due to a lack of hollow trees, mines, caves, rock outcrops, deep rock crevices, and man-made structures (i.e., bridges, tunnels, and buildings) which may provide suitable bat roosting habitat.

3.3.6 INSECTS

No insects were noted during the November 2022 field survey; however, black harvester ants (*Veromessor pergandei*) and tarantula hawk (*Pepsis thisbe*) were observed during field surveys conducted in 2023. An unidentified bee species was also noted on flowering plants during 2023 surveys, likely a honey bee (*Apis* sp.).

3.4 MIGRATORY CORRIDORS AND LINKAGES

Wildlife corridors and linkages are key features for wildlife movement between habitat patches. Wildlife corridors are generally defined as those areas that provide opportunities for individuals or local populations to conduct seasonal migrations, permanent dispersals, or daily commutes, while linkages generally refer to broader areas that provide movement opportunities for multiple keystone/focal species or allow for propagation of ecological processes (e.g., for movement of pollinators), often between areas of conserved land.

The project site is not located within any designated wildlife corridor or Significant Ecological Area (SEA) identified in the *City of Lancaster General Plan 2030* (City of Lancaster 2009) or *Los Angeles County General Plan* (County of Los Angeles 2015). The Antelope Valley SEA is located approximately 1.5-mile northeast of the project site and extends from the Angeles National Forest north to the playa lakes within Edwards Air Force Base. This SEA encompasses two large drainages originating along the northern slope of the San Gabriel Mountains. The geographical features of these drainages serve as major habitat linkages and movement corridors for all wildlife species within the vicinity (County of Los Angeles 2014). Additionally, the Antelope Valley region serves as an important migration route within the greater Pacific Flyway for numerous songbirds and raptors that migrate through and inhabit areas of the western Mojave desert.

Although wildlife species are more likely to utilize the Antelope Valley SEA as a wildlife corridor or linkage to other natural habitats, the project site does constitute a large open area of native vegetation, surrounded by similar habitats that have experienced limited anthropogenic disturbances. Areas to the north, west, and east of the project site include some past and current agricultural land uses, scattered rural residential developments, and paved and dirt roadways, but is largely undeveloped, connecting to vast open

areas in southern Kern County and beyond. As a result, mobile wildlife, such as large mammals and birds may utilize the project site to move throughout the Antelope Valley region and further areas to access resources. The project site also supports dispersal of smaller terrestrial species, such as reptiles and small mammals, across the localized area.

3.5 STATE AND FEDERAL JURISDICTIONAL WATERS

There are three key agencies that regulate activities within inland streams, wetlands, and riparian areas in California. The USACE Regulatory Branch regulates discharge of dredged or fill material into "waters of the United States" pursuant to Section 404 of the federal Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act. Of the State agencies, the RWQCB regulates discharges to surface waters pursuant to Section 401 of the CWA and Section 13263 of the California Porter-Cologne Water Quality Control Act and the CDFW regulates alterations to streambed and associated vegetation communities under Section 1600 *et seq.* of the CFGC.

As documented in the *Delineation of Jurisdictional Waters* (Michael Baker 2023), the project site does not include aquatic or riparian features that fall under the jurisdiction of state and/or federal regulatory agencies, based on the lack of evidence of such features on-site.[4] Therefore, no impacts to jurisdictional aquatic features are expected to occur as a result of project implementation.

3.6 SPECIAL-STATUS BIOLOGICAL RESOURCES

The CNDDB and CIRP were queried for reported locations of special-status plant and wildlife species as well as special-status natural vegetation communities in the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles and IPaC for the project region. The habitat assessment was conducted to assess and evaluate existing condition of the habitats within the boundaries of the project site to determine if the existing vegetation communities, at the time of the field surveys, have the potential to provide suitable habitat for special-status plant and wildlife species. Additionally, the potentials for special-status species to occur within the project site were determined based on the reported locations in the CNDDB, CIRP, and Calflora databases using the following guidelines:

- **Present**: the species was observed or detected within the project site during the field surveys.
- **High**: Recent occurrence records (within 20 years) indicate that the species has been known to occur on or within one mile of the project site and the site is within the normal expected range of this species. Intact, suitable habitat preferred by this species occurs within the project site and/or there is viable landscape connectivity to a local known extant population(s) or sighting(s).
- **Moderate**: Recent occurrence records (within 20 years) indicate that the species has been known to occur within one mile of the project site and the site is within the normal expected range of

[4] Features are generally non-jurisdictional swales, away from any larger drainage feature, and are influenced largely by sheet flow. Based on periodic discussions with CDFW and Regional Board staff, jurisdictional areas are located to the east; these features are influenced by Amargosa Creek and also consist of concave claypan wetlands.

this species. There is suitable habitat within the project site, but the site is ecologically isolated from any local known extant populations or sightings.

- **Low**: Recent occurrence records (within 20 years) indicate that the species has been known to occur within five miles of the project site, but the site is outside of the normal expected range of the species and/or there is poor quality or marginal habitat within the project site.
- **Not Expected**: There are no occurrence records of the species occurring within five miles of the project site, there is no suitable habitat within the project site, and/or the project site is outside of the known or expected range for the species.

The literature search identified fourteen (14) special-status plant species and twenty-one (21) special-status wildlife species as occurring within the USGS *Rosamond, Rosamond Lake, Lancaster East, and Lancaster West, California* 7.5-minute quadrangles and in IPaC for the project region. No special-status vegetation communities were identified. Special-status plant and wildlife species were evaluated for their potential to occur within the project site based on habitat requirements, availability and quality of suitable habitat, and known distributions. Special-status biological resources identified during the literature review as having the potential to occur within the vicinity of the project site are presented in *Table C-1: Potentially Occurring Special-Status Biological Resources*, provided in Appendix C.

3.6.1 SPECIAL-STATUS PLANT SPECIES

Fourteen (14) regional special-status plant species were identified during reviews of the CNDDB, CIRP, and IPaC. Each species' special-status ranking, preferred habitats, and potential to occur within the project site are provided in Table C-1 in Appendix C. Special-status plant species that were observed within or adjacent to the project site during the field survey included Mojave spineflower, remnants of which were detected within the general area that this species was observed by Rincon (2022). This species has a CRPR of 4.2, the lowest ranking of conservation concern. Mojave spineflower was observed in the western third of the project, where individuals were dormant and almost undetectable at the time of the November 2022 survey.

Based on the results of the 2022 Rincon report, literature review, a review of specific habitat preferences, distributions, elevation ranges, and field surveys, alkali mariposa-lily (*Calochortus striatus*; CRPR 1B.2, has a high potential to occur within the project site. This species was detected by Rincon in 2022 just east of the project site, along Amargosa Creek and within a few hundred feet of the project site. All other special-status plant species either have a low potential to occur or are not expected within the project site based on existing site conditions and a review of specific habitat requirements, occurrence records, and known distributions (refer to Table C-1, Appendix C).

As introduced in Section 2.6.2 of this report, rare plant surveys were conducted during the regional blooming period in the Antelope Valley. Michael Baker biologists tracked weather conditions and blooming periods and conducted three (3) surveys of the project site during May and June 2023, which coincided with the blooming period of special-status plant species that were determined to have potential to occur

within the project site. Two special-status plant species were detected and mapped during these surveys, including alkali mariposa lily and Mojave spineflower. Mojave spineflower was previously observed in the project site during surveys conducted by Michael Baker in November 2022 and was observed by Rincon during a survey conducted in May 2022 (Rincon 2022). Table 3 below provides results of the count and acreage quantities determined for each special-status species present on-site.

Table 3: Focused Special-Status Plant Survey Results

Scientific Name	Common Name	Count	Acreage*
Calochortus striatus	alkali mariposa lily	16	N/A
Chorizanthe spinosa	Mojave spineflower	4,179,468	15.16

* Areas containing small numbers of rare plant individuals (generally less than 50 individuals with a negligible acreage) were mapped using points rather than polygons and therefore are accounted for in the count section of the table.

A survey report summarizing the methods and results of rare plant surveys is included as Appendix D to this report.

3.6.2 SPECIAL-STATUS WILDLIFE SPECIES

Twenty-one (21) special-status wildlife species were identified during reviews of the CNDDB and IPaC. Each species' special-status ranking, preferred habitats, and potential to occur within the project site are provided in Table C-2 in Appendix C. Although no burrowing owl were observed during protocol surveys conducted in 2023 and during the general biological survey conducted by Michael Baker biologists in November 2022, one individual was incidentally observed on December 12, 2022, by Michael Baker personnel conducting other site investigations, unrelated to biological resources. Loggerhead shrike (*Lanius ludovicianus*, SSC) was also observed during the survey in November 2022. In addition, northern California legless lizard (*Anniella pulchra*, SSC) was determined to have moderate potential to occur on-site, due to recent nearby observations recorded in the CNDDB and iNaturalist (2023). All other special-status wildlife species identified during the literature review either have a low potential to occur or are not expected within the project site based on existing site conditions and a review of specific habitat requirements, occurrence records, and known distributions (refer to Table C-2, Appendix C).

Due to observations on-site during field surveys or their regional significance, burrowing owl (SSC), Swainson's hawk (*Buteo swainsoni*; SWHA; State-listed Threatened [ST]), loggerhead shrike (SSC), Mohave ground squirrel (ST), desert tortoise (federally-listed Threatened [FT] and ST), and Crotch bumble bee (*Bombus crotchii*; Candidate for State-listing) are described in further detail below.

Burrowing Owl

The burrowing owl is a grassland specialist distributed throughout western North America where it occupies open areas with short vegetation and bare ground within shrub, desert, and grassland environments. Burrowing owls use a wide variety of arid and semi-arid environments with well-drained, level to gently-sloping areas characterized by sparse vegetation and bare ground (Haug and Didiuk 1993; Dechant *et al.*

1999). Burrowing owls are dependent upon the presence of burrowing mammals (e.g., California ground squirrels, coyotes, American badger [*Taxidea taxus*]) whose burrows are used for roosting and nesting. The presence or absence of mammal burrows is often a major factor that limits the presence or absence of burrowing owls. Where mammal burrows are scarce, burrowing owls have been found occupying man-made cavities, such as buried and non-functioning drain pipes, stand-pipes, and dry culverts. Burrowing owls may also burrow beneath rocks and debris or large, heavy objects such as abandoned cars, concrete blocks, or concrete pads. They also require open vegetation allowing open line-of-sight of the surrounding habitat to forage as well as watch for predators.

According to the CNDDB, there are twenty-nine (29) occurrence records for burrowing owl within the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles. The nearest extant occurrences (Occurrence Number [No.] 1062, 1063, 1067, and 1068) were recorded in 2004, approximately 1-mile east of the project site; active burrow sites were observed during a field survey on an abandoned agricultural field (CDFW 2022a). Additionally, another occurrence (No. 1888) was recorded in 2013, approximately 3.25 miles to the southwest of the project site; two adults and 1 juvenile were observed using a burrow (CDFW 2022a). In addition, there is a large number of records of this species in the eBird database, both within and just outside of a 5-mile radius from the project site (eBird 2022).

The project site is located near open space, with West Avenue F immediately to the north, State Route 14 to the west, West Avenue G to the south, and 15th Street West to the east of the site. There are little to no perching opportunities within or surrounding the project site. There were small mammal burrows observed throughout the project site during the field surveys and burrows suitable for nesting burrowing owls. As a result, the project site was determined to have moderate potential to support burrowing owl. However, with an incidental observation made within the western portion of the project site during surveys unrelated to biological resources on December 12, 2022, this species was determined to have high potential to be identified on-site.

As presented in Section 2.6.1 of this report, focused surveys for burrowing owl were conducted in 2023 in accordance with the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). No individual burrowing owl were observed within the project site or survey area during protocol surveys and although numerous potentially suitable burrows were observed within the survey area, only one burrow with potential burrowing owl sign was observed during focused surveys. The sign observed included several old and degraded pellets of a suitable size and shape consistent with pellets from a burrowing owl. No other sign was observed throughout the survey area. A survey report summarizing the methods and results of focused burrow owl surveys is included as Appendix E to this report.

Swainson’s Hawk

Swainson’s hawk has historically nested around grasslands, shrublands, and open woodlands, particularly in California and in other agriculture-heavy regions where native habitat has been converted to farmland. This species has adapted to nesting in the vicinity of agricultural fields, particularly irrigated pastures and

in row, grain, and hayfields (Bechard et al. 2020). Nests are constructed in trees in close proximity to foraging habitat and may be constructed in lone trees or within a row of trees. This species is known to nest in the Antelope Valley with CNDDB occurrence records in Los Angeles County both east and west of State Route 14. With the exception of one CNDDB record, all are 5 plus miles from the project site; one record (No. 2773) of a nesting pair of Swainson's hawk is located approximately 2 miles east-southeast of the project site. This nesting pair was detected in June 2016 with no further information on nesting substrate or surrounding habitat.

Trees suitable for nesting by Swainson's hawk are absent from the project site. Native vegetation occurring on-site provides value as foraging habitat; however, this species often prefers foraging in and around agricultural areas that provide a suitable food source of small mammals, birds, and insects, species often attracted to agricultural areas that may provide food and water sources for prey of Swainson's hawk. This species may occur as a rare migrating or foraging transient across the project site, but is not expected to nest in the project site.

Loggerhead Shrike

The loggerhead shrike is a wide-ranging species that occupies open habitats including grassland, scrub and open woodland communities. They typically nest in isolated, densely-foliaged shrubs or trees, usually well concealed, and occasionally man-made structures and at the margins of open grasslands. Loggerhead shrikes feed on a variety of small prey including arthropods, mammals, amphibians, reptiles, and birds (CDFW 2023f). Because it lacks talons, the loggerhead shrike often impales prey on thorns or barbed wire. They are year-round residents in much of California, though they are generally absent from high altitudes in the Sierra Nevadas and dense forests in the northwest of the state. Loggerhead shrikes are highly territorial, with pairs maintaining territories during the breeding season and individuals maintaining territories during the winter (Yosef 1996).

One loggerhead shrike was observed in the far northern portion of the project site, along West Ave F during the November 2022 field survey; this species was not observed during surveys conducted in 2023. The shadscale scrub habitat occurring on-site provides suitable foraging habitat for the species, but generally only marginally suitable nesting habitat. One CNDDB record (No. 70) from the USGS *Lancaster East, California* 7.5-minute quadrangle was identified during the database review (CNDDB 2023a). This observation was from 2008 and from approximately 7.5 miles south-southeast of the project site. This species would most likely occur in the project site as a foraging or migrating transient and is not expected to nest on-site.

Mohave Ground Squirrel

The Mohave ground squirrel is a small diurnally-active rodent endemic to the western Mojave Desert of California in San Bernardino, Los Angeles, Kern, and Inyo counties. It has one of the smallest geographic ranges of any North American ground squirrel and spends much of the year in underground burrows to avoid the harsh conditions of its desert environment. Optimal habitats are open desert scrub, alkali desert

scrub, Joshua tree, and annual grasslands. MGS feed on a wide variety of green vegetation, seeds, and fruits and forage on the ground or in shrubs and Joshua trees. This species prefers sandy to gravelly soils and avoids rocky areas. Populations are reduced by urban development, off-road vehicle use, and agriculture.

According to the CNDDB, there are three (3) occurrence records for MGS within the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles. The nearest known extant record in the CNDDB (No. 26) is within five miles but was recorded more than 20 years ago in 1984. The project site is located near the southwestern-most edge of the MGS geographic range, but it is not within any area containing a core or peripheral MGS population (CDFW 2019). In addition, MGS were not detected within any regional surveys or protocol grids conducted within the Palmdale area between 2008 and 2012, and MGS have not been trapped or observed anywhere in Los Angeles County away from Edwards Air Force Base and its immediate boundary since 1991, with the closest positive results occurring approximately 15 miles northeast of the project site at the southern end of Rogers Lake (Leitner 2015). A recent update on the status of MGS by Leitner (2021) indicates that results of trapping efforts since the 2000's largely failed to document the species' occurrence in Los Angeles County, except for recent occurrences in the extreme northeastern corner of the county, on or adjoining Edwards Air Force Base. These results strongly suggest the species is essentially extirpated in Los Angeles County (Leitner 2021).

No incidental observations of MGS or sign of the species were made during general, focused burrowing owl, and focused rare plant surveys conducted in 2022 and 2023. Further, with a lack of occurrence records within the vicinity, results of past and recent Leitner studies (2015, 2022) reflecting negative results, and distance from existing populations, MGS is not expected to occur on-site.

Desert Tortoise

The desert tortoise (DETO) is currently designated as a State and federally threatened species. The Mojave population of the desert tortoise inhabits areas north and west of the Colorado River in the Mojave Desert of California, Nevada, Arizona, and southwestern Utah, and in the Sonoran Desert in California. Throughout the majority of the Mojave Desert, desert tortoise occurs most commonly on gentle sloping soils characterized by an even mix of sand and gravel and sparsely vegetated low-growing vegetation where there is abundant inter-shrub space. The typical habitat for this species is creosote bush scrub below approximately 5,500 feet in elevation. Wildflowers, grasses, and in some cases, cacti make up the bulk of their diet. Some of the more common forbs consumed by desert tortoise include desert dandelion (*Malacothrix glabrata*), primrose (*Camissonia* spp. and *Oenothera* spp.) desert plantain (Plantago ovata), milkvetches (Astragalus spp.), gilia (Gilia spp.), desert marigold (*Baileya multiradiata*), Mojave lupine (*Lupinus odoratus*), phacelia (*Phacelia* spp.), desert wishbone-bush (*Mirabilis laevis*), lotus (*Lotus* spp.), forget-me-nots (*Cryptantha* spp.), goldfields (*Lasthenia californica*), California coreopsis (*Leptosyne californica*), white-margin sandmat (*Euphorbia albomarginata*), and the introduced red stemmed filaree (*Erodium cicutarium*). The desert tortoise spends 95 percent of its life underground and will opportunistically utilize burrows of various lengths, deep caves, rock and caliche crevices, or overhangs for cover. Therefore, a moderately friable soil is required to allow for burrow construction and ensure that burrows do not collapse.

The project is not located within designated Critical Habitat for desert tortoise. However, the Antelope Valley SEA is located approximately 1.5-mile northeast of the project site. There are no occurrence records within 5 miles of the project site, however the CNDDB has one (1) occurrence records for desert tortoise within the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles. The closest extant record in the CNDDB (No. 1) was recorded in 2004 and is over 10 miles away to the east of the project site. The project site is located near the southwestern-most edge of the DETO geographic range.

No incidental observations of desert tortoise or sign of the species were made during general, focused burrowing owl, and focused rare plant surveys conducted in 2022 and 2023. Additionally, the species prefers sandy loam soils and avoids soils with excess levels of salt. Pond Oban soils occurring on-site have a profile of silt or clay loams and contain elevated levels of salts. Due to the marginally suitable habitat within the project, the lack of occurrence records within the vicinity, and distance from existing populations, DETO has a low expectancy to occur on-site.

Crotch Bumble Bee

Crotch bumble bee became a candidate for listing under CESA in September 2022, along with three other native bumble bee species. The species is found between San Diego and Redding in a variety of habitats including open grasslands, shrublands, chaparral, desert margins including Joshua tree and creosote scrub, and semi-urban settings. This species is endemic to California, with only a few records from Nevada and Mexico. The species is distinguished by its square-shaped face and rounded ankle on the midleg. Queens and workers (females) have a black head and face and display black color on their mid and bottom thorax and between their wing bases.

One CNDDB record (Occurrence Number 130) for this species was identified within the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles. The record is from 1971 and approximately 3 miles to the southwest of the project site. Two observations in the Lancaster area are recorded from the past three years in iNaturalist (2023). As presented in Section 2.6.3 of this report, one survey for Crotch bumble bee was conducted in 2023 by Dudek. No bumblebees were observed and no nests were found. Due to the lack of potential floral resources and limited small rodent burrows on-site, no further surveys were conducted after the first survey. It was determined that it was unlikely that bumble bees would be found on-site and that additional surveys would not be acceptable, due to a lack of plants in flower and natural senescence of desert vegetation during hot summer months. Dudek also determined that the nearest area with sufficient foraging opportunities for *Bombus* species is the Piute Pond complex, located approximately 4 miles northeast of the project site (Dudek 2023).

3.6.3 SPECIAL-STATUS VEGETATION COMMUNITIES

Special-status vegetation communities include those included as sensitive natural communities within the CNDDB, listed as sensitive by CDFW (CDFW 2022f), and aquatic features that fall under the jurisdiction of state and/or federal regulatory agencies (see Section 3.5). Special-status communities also include

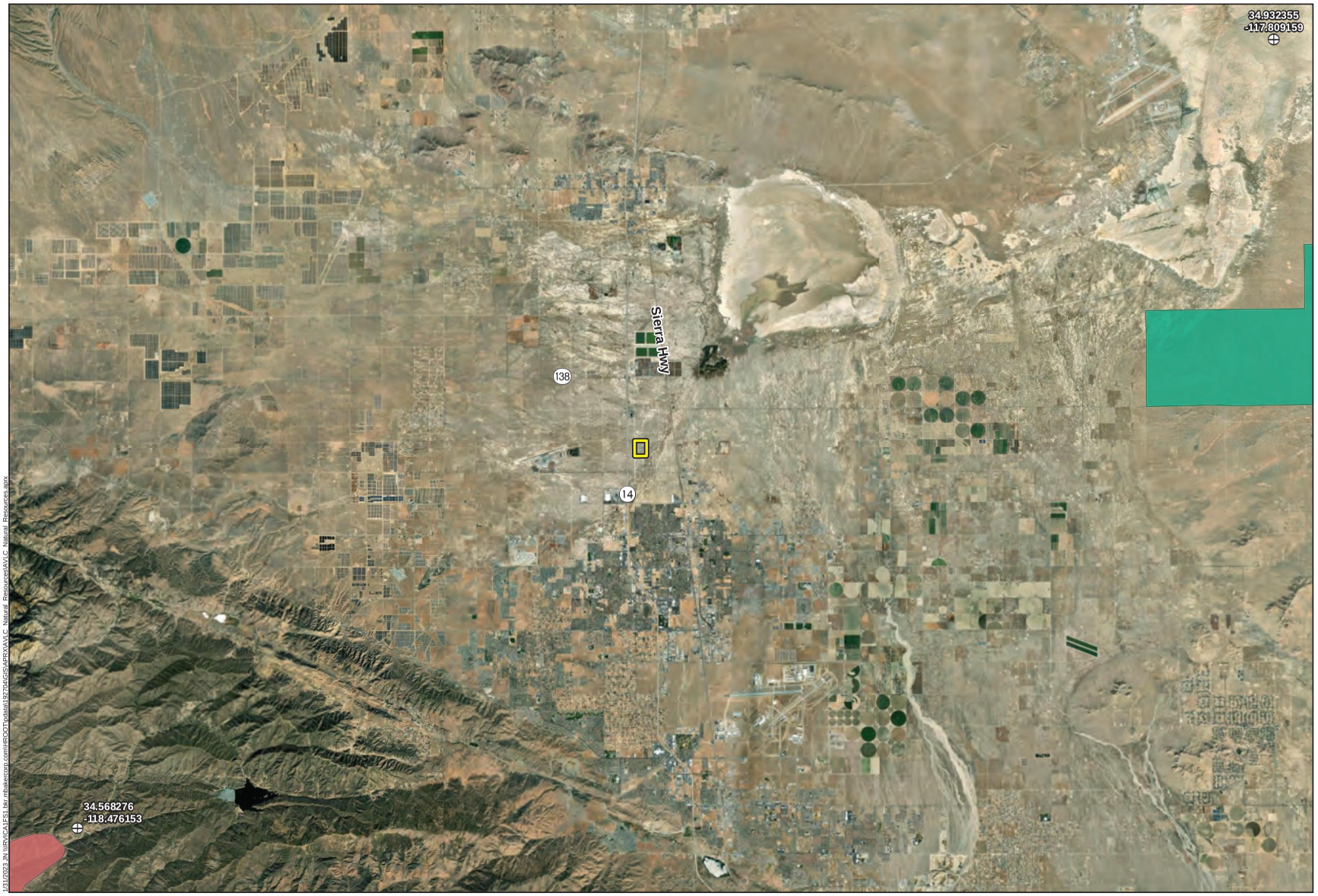
USFWS-designated Critical Habitat (discussed below) and other native vegetation communities that provide suitable habitat for special-status plant and wildlife species and may be occupied by such speices.

No special-status vegetation communities have been reported in the USGS *Rosamond, Rosamond Lake, Lancaster East,* and *Lancaster West, California* 7.5-minute quadrangles by the CNDDB and none were documented on-site during field surveys. The existing native vegetation community occurring on-site, *Atriple polycarpa* Shrubland, is not considered a sensitive natural vegetation community by CDFW (CDFW 2022f).

3.7 CRITICAL HABITAT

Under the definition included in the FESA, designated Critical Habitat refers to specific areas within the geographical range of a species that were occupied at the time it was listed and that contain the physical or biological features that are essential to the survival and eventual recovery of that species. Areas of Critical Habitat may require special management considerations or protection, regardless of whether the species is still extant in the area. Areas that were not known to be occupied at the time a species was listed can also be designated as Critical Habitat if they contain one or more of the physical or biological features that are essential to that species' conservation and if the occupied areas are inadequate to ensure the species' recovery. If a project may result in take or adverse modification to a species' designated Critical Habitat and the project has a federal nexus, the project proponent may be required to provide suitable mitigation. Projects with a federal nexus include those that occur on federal lands, require federal permits (e.g., CWA Section 404 permit), or receive any federal oversight or funding. If there is a federal nexus, then the federal agency that is responsible for providing funds or permits would be required to consult with the USFWS pursuant to the FESA.

The project site is not located in or within 5 miles of USFWS-designated Critical Habitat for any federally listed species as illustrated in Figure 6, *Critical Habitat*.



Legend

- Project Site (118.55 acres)
- California Red-legged Frog (*Rana draytonii*)
- Desert Tortoise (*Gopherus agassizi*)
- Reference Point

0 1.5 3 Miles

1/31/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\data\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
BIOLOGICAL RESOURCES ASSESSMENT

Critical Habitat

Figure 6

Michael Baker INTERNATIONAL

Source: Esri/Vivid (11/2021), USFWS (01/2023)

Section 4 Project Impact Analysis

Direct impacts are considered to be those that involve the loss, modification or disturbance of plant communities, which in turn, directly affect the flora and fauna of those habitats. Direct impacts also include the destruction of individual plants or animals, which may also directly affect regional population numbers of a species or result in the physical isolation of populations thereby reducing genetic diversity and population stability.

Indirect impacts pertain to those impacts that result in a change to the physical environment, but which is not immediately related to a project. Indirect (or secondary) impacts are those that are reasonably foreseeable and caused by a project but occur at a different time or place. Indirect impacts can occur at the urban/wildland interface of projects, to biological resources located downstream from projects, and other off-site areas where the effects of the project may be experienced by plants and wildlife. Examples of indirect impacts include the effects of increases in ambient levels of noise or light; predation by domestic pets; competition with exotic plants and animals; introduction of toxics, including pesticides; and other human disturbances such as hiking, off-road vehicle use, unauthorized dumping, etc. Indirect impacts are often attributed to the subsequent day-to-day activities associated with project build-out, such as increased noise, the use of artificial light sources, and invasive ornamental plantings that may encroach into native areas. Indirect effects may be both short-term and long-term in their duration. These impacts are commonly referred to as "edge effects" and may result in a slow replacement of native plants by non-native invasives, as well as changes in the behavioral patterns of wildlife and reduced wildlife diversity and abundance in habitats adjacent to project sites.

Cumulative impacts refer to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. A cumulative impact can occur from multiple individual effects from the same project, or from several projects. The cumulative impact from several projects is the change in the environment resulting from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time.

4.1 IMPACTS TO SPECIAL-STATUS SPECIES

This section evaluates potential impacts of the project pursuant to Appendix G(a) of the CEQA guidelines in relation to special-status species, sensitive vegetation communities, regulated aquatic features, wildlife movement, and consistency with any regional or local plans or ordinance that protect or manage biological resources.

4.1.1 SPECIAL-STATUS PLANT SPECIES

The proposed project is not anticipated to impact any federal or State listed plant species, as none are expected to occur within the project site (refer to Appendix C) and none were detected during focused rare plant surveys conducted in 2023. However, Mojave spineflower (CRPR 4.2) and alkali mariposa-lily (CRPR 1B.2) were detected on-site during rare plant surveys (refer to Section 3.6.1) and are anticipated to be directly impacted by the proposed project.

The project has the potential to impact up to 16 individual alkali mariposa lily and up to 4,179,468 individual Mojave spineflower covering 15.16 acres. Impacts to alkali mariposa lily, a species with a CRPR of 1B.2, would be considered significant under CEQA and as such would require mitigation to reduce impacts to below a level of significance. However, only a total of 16 individual alkali mariposa lily, covering a negligible area, were recorded within the survey area. Mitigation for impacts to alkali mariposa-lily may be achieved in conjunction with compensatory mitigation implemented for impacts to other special-status species mapped on-site (i.e. Mojave spineflower).

Mojave spineflower is a special-status species with a CRPR of 4.2; species with a CRPR of 3 or 4 generally do not require evaluation under CEQA when small numbers or areas of such species are impacted. However, given the quantity of Mojave spineflower present on-site, an evaluation of this CRPR 4 species under CEQA is warranted and mitigation for impacts to the species is required. Off-site preservation of habitat similar to that occupied by special-status plant species detected on-site is anticipated via an in-lieu fee program administered by an agency-approved mitigation bank. This strategy is anticipated to provide appropriate compensatory mitigation for impacts to Mojave spineflower. Avoidance and Minimization Measures (AMM) included in Section 4.7 below have been provided to reduce potential significant impacts to such species to a level below significance.

4.1.2 SPECIAL-STATUS WILDLIFE SPECIES

Burrowing Owl and Other Raptors

Construction-related disturbance may have an adverse impact on burrowing owl, if determined present, especially during the breeding season when individuals may be attempting to incubate eggs or raise young within or adjacent to the project site. The permanent and temporary loss of these species and/or their habitat would be potentially significant.

Additional raptor species, including Swainson's hawk, ferruginous hawk (*Buteo regalis*; WL), northern harrier (*Circus hudonius*; SSC), and merlin (*Falco columbarius*; WL) were identified during the literature review to be known from the vicinity of the project and surrounding Antelope Valley. These species were not observed during any field surveys and have only low potential to forage across the site; they are not known to nest in the project region. Direct impacts to these species are not anticipated; however, indirect impacts such as those described in Section 4.1 above could result in significant impacts. AMM included in Section 4.7 below have been provided to reduce potential significant impacts to burrowing owl and other special-status raptors.

Nesting Birds

The proposed project has the potential to impact active bird nests if vegetation is removed during the nesting season. Impacts to nesting birds are prohibited by the MBTA and CFGC. AMM included in Section 4.7 below have been provided to reduce potential significant impacts to nesting birds to less than significant with implementation of pre-construction nesting bird surveys and implementation of no disturbance buffers and nest monitoring.

Desert Tortoise

Desert tortoises were determined to have a low potential to occur within the project site. Although native desert vegetation occurring on-site provides potentially suitable habitat for this species, individuals or sign of this species were not observed during the general biological resource site survey conducted in November 2022 or incidentally observed during focused rare plant and burrowing owl surveys conducted during spring and summer 2023. As a result, impacts to this species are not anticipated and compensatory mitigation for impacts to this species or its habitat are not expected.

Mohave Ground Squirrel

Individuals or sign of this species were not observed during the general biological resource site survey conducted in November 2022 or incidentally observed during focused rare plant and burrowing owl surveys conducted during spring and summer 2023. As a result, impacts to this species are not anticipated and compensatory mitigation for impacts to this species or its habitat are not expected.

Crotch Bumble Bee

Although observations of this species are documented in iNaturalist (2023) from the project vicinity, no bumble bees or nests of bumble bees were observed on-site during a survey conducted in 2023. Further the nearest area with sufficient foraging opportunities for the species occurs at Piute Ponds, located approximately four miles northeast of the project site. As a result, this species is not expected to occur on-site and no impacts to Crotch bumble bee are anticipated.

Desert Kit Fox

While desert kit fox is not a special-status species[5], burrows suitable for denning/nursing by the species were observed on-site. A few observations of the species are documented in iNaturalist (2023) from the Antelope Valley, with one observation noted approximately five miles from the project site in 2018. While a potentially suitable burrow/den for this species was found on-site, no individuals or sign of the species were observed during field surveys; however, impacts to desert kit fox denning and nursing during

[5] Desert kit fox is not listed by the USFWS or CDFW under any special-status designation. It is considered a "fur-bearing mammal," protected from take under the California Fish and Game Commission's 2017–2018 Mammal Hunting Regulations (Subdivision 2, Chapter 5). Additionally, impacts during project construction to denning/nursing sites of the species would be considered significant under CEQA.

construction would be considered significant under CEQA. No indications of the site currently serving as a significant denning/nursing location for the species were observed; however, the species could utilize the project site for such activities prior to construction.

4.2 IMPACTS TO SENSITIVE VEGETATION COMMUNITIES

The native *Atriplex confertifolia* Shrubland community documented on-site is not listed as a California Sensitive Natural Community by CDFW (CDFW 2023f). Further the on-site community has been disturbed by anthropogenic activities associated with a homeless encampment along the western perimeter of the project site, which has resulted in disturbances to approximately the western third of the site, where off-road vehicle and illegal dumping activities have disturbed the vegetative community. The on-site habitat also includes a significant understory of non-native annual weedy species, further reflecting the disturbed nature of the natural vegetation community occurring on-site. However, with the presence of special-status plant species, compensatory mitigation for the loss of these species is required. Mitigation for the loss of on-site habitat is anticipated to be achieved via coordination with a regional, agency-approved conservation agency/land trust to identify and acquire off-site lands to hold under restrictive deed in perpetuity. This strategy is anticipated to provide appropriate compensatory mitigation for the loss of the on-site habitat that supports special-status species. An AMM has been included in Section 4.7 below to compensate for the loss of on-site habitat.

4.3 IMPACTS TO JURISDICTIONAL AQUATIC FEATURES

As presented in Section 3.5 of this report, the project site does not contain any State or federally protected aquatic features based on the lack of aquatic evidence as described in Section 3.5 above. Therefore, no impacts to jurisdictional features are expected to occur due to project related activities and permits from the USACE, RWQCB, and CDFW are not anticipated.

4.4 IMPACTS TO WILDLIFE MOVEMENT AND NURSERY SITES

The proposed project will generally impact the movement of wildlife through the project site to further areas of undeveloped land to the north, east, and west of the project site. However, similar habitat to that occurring on the project-site occurs in the surrounding area and the proposed project will still allow wildlife to move around the project site. Although the AMM included in Section 4.7 below are not directly intended to reduce any potential disruption to wildlife movement, the have been provided to reduce potential impacts to sensitive biological resources, indirectly supporting wildlife movement.

No evidence of the project site serving as a significant nursery site was detected during the field surveys. The project site is generally composed of one relatively common native vegetation community, although disturbed by an understory consisting of primarily non-native herbaceous plants species; and no trees and only a few large shrubs, and no surface waters occur on-site. Mammal burrows were observed, although no recent sign of use or occupation where observed; it is possible that significant rain events during the 2022-2023 wet season obscured sign of mammal use. Mammal activity during the November 2022 survey and

during burrowing owl surveys was very minimal, with only observations of a few mammal species (refer to Appendix B). Larger burrows suitable for coyote denning were observed on-site, as well as the previously noted burrows potentially suitable for burrowing owl, as well as desert kit fox. While indications of the site serving as a significant denning or nursery site were not observed during field surveys, with the presence of suitable burrows for fossorial species, the project site provides suitable mammal denning opportunities, although likely only supporting a localized population. AMM have been provided below in Section 4.7 to avoid and mitigate for the potential loss of the project site's value as a nursery site for local wildlife populations.

4.5 IMPACTS TO LOCAL POLICIES AND ORDINANCES

The proposed project will not conflict with any local policies or ordinances protecting biological resources. In addition, the project site is not located within or adjacent to a designated Los Angeles County Significant Ecological Area (SEA) and thus would have no impacts on the SEA Program. Therefore, the project would have no impact on any local policies or ordinances protecting biological resources.

4.6 IMPACTS TO HABITAT CONSERVATION PLANS

The project site is not within or directly adjacent to areas contained within any conservation plans. Therefore, the project would have no impact on an adopted conservation plan.

4.7 AVOIDANCE AND MINIMIZATION MEASURES

The following project-specific Avoidance and Minimization Measures (AMM) are provided to reduce potential direct and indirect impacts to biological resources.

To avoid and/or minimize impacts to special-status species and their habitats, the following AMM typical to projects where native vegetation would be removed and special-status species may be present shall be implemented:

BIO-1: Prior to the issuance of a grading permit and fourteen (14) days prior to the initiation of any project activities, the resume of a proposed qualified biologist shall be submitted to County Planning for review and approval. That person shall serve as the lead biological monitor and ensure that impacts to all biological resources are minimized or avoided, and shall conduct (or supervise) pre-grading field surveys for species that may be avoided, affected, or eliminated as a result of grading or any other site preparation activities. The lead biological monitor shall ensure that all surveys are conducted by qualified personnel (e.g., avian biologists for bird surveys, herpetologists for reptile surveys, etc.), the resumes of which shall be submitted to County Planning for review and approval, and that they possess all necessary permits and memoranda of understanding with the appropriate agencies for the handling of potentially-occurring special-status species. The lead biological monitor shall also ensure that daily monitoring reports (e.g., survey results, protective actions, results of protective actions,

adaptive measures, etc.) are prepared, and shall make these monitoring reports available to County Planning and CDFW at their request.

A qualified biologist shall present a Worker Environmental Awareness Program (WEAP) to all construction crews and contractors prior to starting any work on the project site. The WEAP shall be submitted to County Planning for review and approval no less than fourteen (14) days prior to the initiation of any project activities. The WEAP training would include a review of the special-status species and other sensitive resources that could exist in the project area, the locations of sensitive biological resources as well as their legal status and protections, and measures to be implemented for avoidance of these sensitive resources. A record of all personnel trained shall be maintained and submitted to County Planning upon their request.

Project limits shall be clearly delineated with fencing or other boundary markers prior to the start of construction. During construction, construction workers shall strictly limit their activities, vehicles, equipment, and construction materials to the designated construction limits and staging areas.

The biological monitor shall be present during vegetation and ground disturbance activities to inspect and enforce mitigation requirements and to relocate any species that may come into harm's way to an appropriate offsite location of similar habitat. Upon completion of vegetation and earth disturbance activities, the biological monitor shall be available to conduct as needed spot checks during construction and respond to requests from project personnel as they arise to remove wildlife, answer any questions, and generally provide as-needed support to confirm project measures are implemented. The biological monitor shall be authorized to stop specific grading or construction activities if violations of mitigation measures or any local, state, or federal laws are suspected. The biological monitor shall submit weekly reports of the monitoring activities to County Planning and CDFW. Reports shall include a description of the construction activities monitored, any compliance issues observed, how they were resolved, any avoidance and minimization measures implemented, and lists of wildlife and plant species observed within the project area. If ongoing biological monitoring of construction activities reveals the presence of any special-status wildlife within an active work area, then work shall be temporarily halted until the animals leave on their own volition or can be collected and relocated to areas outside of the designated work zones. Work areas shall be surveyed for special-status species during construction activities. Any special-status species occurring within the work area shall be collected and relocated to areas outside of the designated work zones (unless such relocation would require an Incidental Take Permit for take of a listed species, in which case the appropriate trustee agencies (CDFW or USFWS) will be consulted first).

During construction, all equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities shall occur in designated areas within the project limits. Equipment

shall be checked daily for leaks prior to operation and repaired as necessary, and secondary containment shall be implemented during equipment and vehicle staging.

During construction, the project limits shall be kept as clean of debris and trash as possible to avoid attracting predators of sensitive wildlife. Food-related trash items shall be kept in sealed containers and removed daily from the construction work zone.

To avoid entrapment, injury, and mortality of special-status and common wildlife species during construction, the following AMM related to managing trenches and holes shall be implemented:

BIO-2 The contractor shall cover or backfill all trenches, holes, and open water sources (e.g., water buffalos, water tanks, and slurry dumpsters) the same calendar day they are opened, where practicable. These areas shall be covered to prevent wildlife from becoming trapped or drowning.

If trenches or holes cannot be closed the same day they are made, covers shall be firmly secured at ground level in such a way that small wildlife cannot slip beneath. At sites that require the presence of a biological monitor, trench covers shall be approved by the monitor. If covers cannot be provided, escape ramps shall be placed in all trenches and holes.

Open trenches shall be inspected regularly throughout the day and prior to filling to remove any trapped wildlife (e.g., small mammals, reptiles, amphibians) and to check for the presence of protected wildlife species at Project sites that require the presence of a biological monitor.

If a state or federal listed wildlife species is present in the trench, the on-site Biological Monitor shall contact CDFW or USFWS immediately, ensure the protected species is not in immediate danger, and wait for instruction by CDFW or USFWS.

Covered trenches and holes at sites where biological monitors are present are to be inspected by the monitor at the end of the work day and prior to initiating construction activities the next day.

In locating trenches or holes, disturbance to natural vegetation, including plant root systems shall be minimized.

As presented in this report, special-status plant species were recorded on-site in 2023 and it is anticipated that all on-site habitat would be removed during construction. To determine the special-status plant species present and their distribution on-site, updated rare plant surveys shall be conducted prior to construction in accordance with the following AMM:

BIO-3: To ensure proper compensatory mitigation for impacts to special-status plant species, prior to construction, and during the appropriate blooming periods for special-status plant species with the potential to occur within the project site, a qualified botanist approved by County Planning

shall have conducted focused rare plant surveys across the entire project site following 2018 CDFW and/or 2001 CNPS guidelines to determine presence or absence of special-status plant species. Resumes of botanists conducting the survey shall be submitted to County Planning as part of the documentation regarding the surveys. The surveys shall be floristic in nature (i.e., identifying all plant species to the taxonomic level necessary to determine rarity) and include site visits covering early, mid, and late-blooming season species. Documentation of surveys and findings shall be submitted to County Planning and the CDFW for review within fourteen (14) days of completion of surveys.

For the loss of Mojave spineflower and alkali mariposa-lily known to occur on-site, the project proponent shall coordinate with a regional conservation agency or land trust to identify off-site lands that may be acquired and held in a restrictive deed for perpetuity to compensate for the loss of 15.16 acres of on-site habitat occupied by special-status plant species at a ratio of at least 0.5:1. It is expected that the acquired lands would be located in the Antelope Valley region of Los Angeles County and would support populations of each special-status plant species approximately equal in number to those recorded within the project site. During selection of the mitigation lands, consideration of the mitigation site's suitability to support burrowing owl, desert kit fox, and nesting birds should be taken into consideration. Acquisition of mitigation lands would be fully funded to support management and maintenance of the property by the conservation agency. The project proponent shall be fully responsible to implement this measure to the satisfaction of County Planning. Although not expected, if State- and/or Federally-listed plant species are present and avoidance is infeasible, consultation with the CDFW and/or USFWS would be required prior to initiating any on-site project activities.

The project site contains suitable nesting and foraging habitat for burrowing owls. To avoid and/or minimize potential impacts to this species, the following AMM is provided:

BIO-4: A burrowing owl clearance survey shall be conducted no more than 14 days prior to any vegetation removal or ground disturbing activities to avoid impacts to burrowing owls and/or occupied burrows. The pre-construction clearance survey shall be conducted by qualified biologists approved by County Planning and in accordance with the methods outlined in the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012). The resumes of qualified biologists shall be submitted to County Planning no less than fourteen (14) days prior to the clearance survey. Documentation of surveys and findings shall be submitted to County Planning and the CDFW for review within fourteen (14) days of completion of the clearance survey. If no burrowing owls or occupied burrows are detected, project activities may begin, and no additional avoidance and minimization measures shall be required.

Regardless of pre-construction survey results, to account for the presence of owls if a burrow becomes occupied after construction has commenced or is detected during pre-construction surveys, a burrowing owl avoidance and minimization plan in accordance with the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012) shall be prepared and submitted to County

Planning and CDFW for approval no less than thirty (30) days prior to the initiation of any project activities. The plan would detail implementation of "no-disturbance" buffers and burrow exclusion activities in the event an occupied burrow is detected.

Habitats and vegetation within and surrounding the project site have the potential to support breeding and nesting birds that are protected pursuant to the MBTA and CFGC. To avoid and/or minimize potential impacts to nesting birds, the following AMM is provided:

BIO-5: Proposed project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates) should occur outside of the avian breeding season which generally runs from February 1 – August 31 (as early as January 1 for some raptors) to avoid take of birds or their eggs. Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill (California Fish and Game Code Section 86), and includes take of eggs or young resulting from disturbances which cause abandonment of active nests. Depending on the avian species present, a qualified biologist may determine that a change in the breeding season dates is warranted.

If avoidance of the avian breeding season is not feasible, qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys beginning thirty (30) days prior to the initiation of project activities, to detect protected native birds occurring on-site and, as access to adjacent areas allows, other suitable habitats within 500 feet of the project site. The resumes for biologists conducting pre-construction surveys shall be submitted to County Planning for review and approval no less than fourteen (14) days before surveys are initiated. The surveys shall continue on a weekly basis with the last survey being conducted no more than three (3) days prior to the initiation of project activities. The results of each weekly survey shall be submitted to County Planning no more than seven (7) days after completion of the survey.

If a protected native bird is found, the project proponent may delay all project activities within 300 feet of on- and off-site suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist may continue the surveys in order to locate any nests. If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests) or as determined by a qualified biological monitor, must be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, or construction fencing shall be used to demarcate the inside boundary of the buffer of 300 feet (or 500 feet) between the project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. The project proponent shall include the results of the recommended protective measures described above in weekly pre-construction survey reports to document compliance with applicable State and federal laws pertaining to the protection of native birds.

If the biological monitor determines that a narrower buffer between the project activities and observed active nests is warranted, he/she shall submit a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the project activities and the nest and foraging areas) to County Planning and, upon request, the CDFW. Based on the submitted information, County Planning (and the CDFW, if the CDFW requests) will determine whether to allow a narrower buffer.

The biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain within the project footprint (i.e., outside the demarcated buffer) and that the flagging/stakes/fencing is being maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor shall send weekly monitoring reports to County Planning during the grubbing and clearing of vegetation, and shall notify County Planning immediately if project activities damage active avian nests.

The project site contains burrows suitable for denning/nursing by desert kit fox. To avoid and/or minimize construction level impacts to denning/nursing activities by this species, the following AMM is provided:

BIO-6: At least thirty (30) days prior to project ground disturbance activities, a Desert Kit Fox Management Plan shall be prepared and submitted to County Planning and the CDFW for review and approval. The plan shall (1) incorporate pre-approval survey data of the desert kit fox population; (2) identify preconstruction survey methods for desert kit fox; and (3) describe preconstruction and construction-phase biological monitoring and passive relocation methods, or outline any identified CDFW permit and Memorandum of Understanding requirements for active relocation of the species, if either are necessary.

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Appendix A Site Photographs



Photograph 1: Southeast-facing view from northwest corner of the project site.



Photograph 2: North-facing view from near the southwest corner of the project site.



Photograph 3: South-facing view from the approximate center of the project site.



Photograph 4: West-facing view across the project site.



Photograph 5: Dumped material along southern boundary of project site.



Photograph 6: East-facing view in the southeast portion of the project site.



Photograph 7: South-facing view of a potential coyote den the near eastern border of the project.



Photograph 8: West-facing view from the northeast corner of the project site, with West Avenue F at right.

Appendix B Plant and Wildlife Species Observed List

Table B-1 Plant Species Observed

Scientific Name*	**Common Name**	**Cal-IPC Rating****	**Special-Status Rank*****
Amsinckia sp.	fiddleneck		
Ambrosia dumosa	white bursage		
Atriplex canescens	fourwing saltbush		
Atriplex confertifolia	shadscale		
Atriplex lentiformis	big saltbush		
Atriplex polycarpa	allscale saltbush		
*Atriplex prostrata**	fat-hen		
*Bromus madritensis**	Spanish brome	High	
*Bromus tectorum**	cheatgrass	High	
Calochortus striatus	alkali mariposa lily		1B.2
Centromadia pungens ssp. *pungens*	common tarweed		
Chorizanthe spinosa	Mojave spineflower		4.2
Chylismia claviformis	clavate fruited primrose		
Cryptantha sp.	cryptantha		
*Descurainia sophia**	flix weed	Limited	
Distichlis spicata	salt grass		
Ericameria nauseosa	rubber rabbitbrush		
Eriogonum microtheca	slender buckwheat		
*Erodium cicutarium**	coastal heron’s bill	Limited	
Forestiera pubescens	desert olive		
Frankenia salina	alkali heath		
*Hordeum murinum**	wall barley	Moderate	
*Hirschfeldia incana**	shortpod mustard		
Lepidium fremontii	desert pepperweed		

Table B-1 Plant Species Observed

Scientific Name*	**Common Name**	**Cal-IPC Rating****	**Special-Status Rank*****
*Lepidium perfoliatum**	clasping pepperweed		
Lycium andersonii	Anderson thornbush		
Malacothrix coulteri	snake's-head		
Matricaria discoidea	pineapple weed		
Mentzelia albicaulis	whitestem blazingstar		
Pectocarya penicillata	northern pectocarya		
Phacelia fremontii	Fremont's phacelia		
Schismus barbatus *	common Mediterranean grass	Limited	
Tamarix sp.*	salt cedar	High	
Tetradymia axillaris	catclaw horsebrush		
Uropappus lindleyi	silver puffs		

* Non-native species

** **California Invasive Plant Council (Cal-IPC) Ratings**

High These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.

Moderate These species have substantial and apparent—but generally not severe—ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.

Limited These species are invasive, but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes

result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

*** **Special-Status Rank**

California Native Plant Society (CNPS) California Rare Plant Rank

1B Plants rare, threatened, or endangered in California and elsewhere.

2B Plants rare, threatened, or endangered in California but more common elsewhere.

4 Plants of limited distribution – Watch List.

Threat Ranks

.1 Seriously threatened in California (over 80% of occurrences threatened/high degree any immediacy of threat).

.2 Moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat).

.3 Not very threatened in California (less than 20% of occurrences threated / low degree and immediacy of threat or no current threats known).

Table B-2 Wildlife Species Observed

*Scientific Name**	**Common Name**	**Special-Status Rank*****
BIRDS		
Artemisiospiza belli	Bell's sparrow	
Buteo jamaicensis	red-tailed hawk	
Callipepla californica	California quail	
Cathartes aura	turkey vulture	
Corvus brachyrhynchos	American crow	
Corvus corax	common raven	
Eremophila alpestris	horned lark	
Haemorhous mexicanus	house finch	
Melospiza melodia	song sparrow	
Lanius ludovicianus	loggerhead shrike	SSC
Mimus polyglottos	northern mockingbird	
Sayornis saya	Say's Phoebe	
Setophaga coronata	yellow-rumped warbler	
Spinus psaltria	lesser goldfinch	
Sturnella neglecta	western meadowlark	
Zenaida macroura	mourning dove	
Zonotrichia leucophrys	white-crowned sparrow	
MAMMALS		
Canis latrans	coyote	
Lepus californicus	black-tailed jackrabbit	
Otospermophilus beecheyi	California ground squirrel	
Sylvilagus audubonii	desert cottontail	

Table B-2 Wildlife Species Observed

Scientific Name*	**Common Name**	**Special-Status Rank*****
REPTILES		
Aspidoscelis tigris tigris	great basin whiptail	
Scleroporus occidentalis	western fence lizard	
Uta stansburiana elegans	western side-blotched lizard	
INSECTS		
Apis sp.	European honey bee	
Pepsis thisbe	tarantuala hawk	
Veromessor pergandei	black harvester ant	

*** **Special-Status Rank**

California Department of Fish and Wildlife

SSC Species of Special Concern – any species, subspecies, or distinct population of fish, amphibian, reptile, bird, or mammal native to California that currently satisfies one or more of the following criteria:

- is extirpated from California or, in the case of birds, in its primary seasonal or breeding role;
- is listed as Federally-, but not State-, threatened or endangered; meets the State definition of threatened or endangered but has not formally been listed.
- is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for State threatened or endangered status; or
- has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for State threatened or endangered status.

Appendix C Potentially Occurring Special-Status Biological Resources

Table C-1: Special-Status Plant Species and Vegetation Communities

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Astragalus preussii* var. *laxiflorus Lancaster milk-vetch	1B.1 G4T2 S1	Perennial herb. Occurs in chenopod scrub in California only near Lancaster and Edwards Air Force Base, where extremely rare. Found at approximate elevation of 2,295 feet amsl. Blooming period is March through May.	No	**Low:** Chenopod scrub preferred by this species occurs within the project site; however, the only occurrence record identified during the review of the CNDDB (Occurrence Number 1) for this species was recorded in 1902 approximately 2.5 miles southeast of the project site.
Calochortus striatus alkali mariposa-lily	1B.2 G3 S2S3	Perennial bulbiferous herb. Occurs in alkaline and mesic microhabitat in chaparral, chenopod scrub, Mojavean desert scrub, and meadows and seeps. Found at elevations ranging from 230 to 5,235 feet amsl. Blooming period is April through June.	No	**High:** Mojavean desert scrub preferred by this species is present within the project site. Additionally, the species has been observed within a few hundred feet to the east on an adjacent parcel (Rincon 2022).
Calystegia peirsonii Peirson's morning-glory	4.2 G4 S4	Perennial rhizomatous herb. Habitats include chaparral, chenopod scrub, cismontane woodland, coastal scrub, lower montane coniferous forest, and valley and foothill grassland. Found at elevations ranging from 98 to 4,921 feet. Blooming period is from April to June.	No	**Not Expected:** Chaparral, chenopod and coastal scrub, cismontane woodland, and lower montane coniferous forest preferred by this species are not present within the project site.
Canbya candida white pygmy-poppy	4.2 G3G4 S3S4	Annual herb. Occurs on gravelly, sandy, granitic soils in Joshua tree woodland, Mojavean desert scrub, and pinyon and juniper woodland. Found at elevations ranging from 2,297 to 5,249 feet amsl. Blooming period is March through June.	No	**Not Expected:** Although there is Mojavean desert scrub habitats within the project site, there are no occurrence records for this species within 5.0 miles of the project site.
Castilleja plagiotoma Mojave paintbrush	4.3 G4 S4	Perennial herb (hemiparasitic). Grows in Great Basin scrub (alluvial), Joshua tree woodland, lower montane coniferous forest, and pinyon and juniper woodland habitats. Found at elevations ranging from 984 to 8,202 feet. Blooming period is from April to June.	No	**Not Expected:** Great Basin scrub, Joshua tree woodland, lower montane coniferous forest and pinyon juniper woodlands preferred by this species are not present within the project site.
Chorizanthe parryi* var. *parryi Parry's spineflower	1B.1 G3T2 S2	Annual herb. Occurs on sandy and/or rocky soils in chaparral, coastal sage scrub, and sandy openings within alluvial washes and margins. Found at elevations ranging from 951 to 3,773 feet amsl. Blooming period is April through June.	No	**Not Expected:** Chaparral, coastal sage scrub, and sandy openings within alluvial washes and margins preferred by this species are not present within the project site. Additionally, the only occurrence record (Occurrence Number 38) for this species within 5.0 miles of the project site was recorded in 1896.
Chorizanthe spinosa Mojave spineflower	4.2 G4 S4	Annual herb. Found on sometimes alkaline soils within Joshua tree woodland, playas, Mojavean desert scrub, and chenopod scrub habitats. Found at elevations ranging from 20 to 4,265 feet. Blooming period is March through July.	Yes	**Present:** The species was observed within the western portion of the project site during surveys in November 2022.

Table C-1: Special-Status Plant Species and Vegetation Communities

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Eriastrum rosamondense Rosamond eriastrum	1B.1 G1? S1?	Annual herb. Occurs in Chenopod scrub and vernal pool habitats. Found at elevations ranging from 2,200 to 2,345 feet amsl. Blooming period is in May.	No	**High:** Chenopod scrub habitat preferred by this species occurs in the project site and there are two records in the CNDDB of this species occurring within 2 miles of the project site, and dated from approximately 18 and 30 years ago. Approximately 5 additional CNDDB records occurring from within 5 miles of the project site, with the most recent from 12 years ago.
Eriophyllum mohavense Barstow woolly sunflower	1B.2 G2 S2	Annual herb. Occurs in chenopod scrub, playas, and Mojavean desert scrub habitats. Found at elevations ranging from 1,640 to 3,150 feet amsl. Blooming period is March through May.	No	**Not Expected:** Although Mojavean desert scrub habitat preferred by this species is present within the project site, there are no occurrence records for this species within 5.0 miles of the project site.
Goodmania luteola golden goodmania	4.2 G3 S3	Annual herb. Occurs in Mojavean desert scrub, meadows and seeps, playas, and valley and foothill grasslands. Found at elevations ranging from 65 to 7,220 feet amsl. Blooming period is April through August.	No	**High:** Mojavean desert scrub habitat preferred by this species is present within the project site and there are several Calflora records from within 2 miles of the site and from the past 25 years.
Loeflingia squarrosa* var. *artemisiarum sagebrush loeflingia	2B.2 G5T3 S2	Annual herb. Occurs in sandy desert dunes, Great Basin scrub, and Sonoran desert scrub. Found at elevations ranging from 2,295 to 5,300 feet amsl. Blooming period is April through May.	No	**Not Expected: S**andy desert dunes, Great Basin scrub, and Sonoran desert scrub habitats preferred by this species are not present within the project site.
Monardella exilis Mojave monardella	4.2 G3? S3	Annual herb. Occurs in sandy soils within desert dunes, Mojavean desert scrub, Great Basin scrub, chenopod scrub, pinyon and juniper woodland, Joshua tree woodland, and lower montane habitats. Found at elevations ranging from 1970 feet to 7940 feet amsl. Blooms April-September.	No	**Not Expected:** Habitats preferred by this species are nor present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
Muilla coronata crowned muilla	4.2 G3 S3	Perennial bulbiferous herb. Occurs in Joshua tree woodland, pinyon and juniper woodland, Mojavean desert scrub, and chenopod scrub. Known elevations range from 2,200 to 6,430 feet amsl. Blooming period is March through April (May).	No	**Not Expected:** Habitats preferred by this species are nor present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
Puccinellia simplex California alkali grass	1B.2 G2 S2	Annual herb. Occurs in alkaline soils, flats, lake margins, or vernally mesic soils within chenopod scrub, meadows and seeps, valley and foothill grassland, and vernal pool habitats. Found at elevations ranging from 5 to 3,050 feet amsl. Blooming period is March through May.	No	**Not Expected:** The habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.

California Native Plant Society (CNPS) California Rare Plant Rank

1B Plants rare, threatened, or endangered in California and elsewhere.

2B Plants rare, threatened, or endangered in California but more common elsewhere.

4 Plants of limited distribution – Watch List.

Threat Ranks

.1 Seriously threatened in California (over 80% of occurrences threatened/high degree any immediacy of threat).

.2 Moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat).

.3 Not very threatened in California (less than 20% of occurrences threated / low degree and immediacy of threat or no current threats known).

NatureServe Conservation Status Rank

The Global Rank (G#) reflects the overall condition and imperilment of a species throughout its global range. The Infraspecific Taxon Rank (T#) reflects the global situation of just the subspecies or variety. The State Rank (S#) reflects the condition and imperilment of an element throughout its range within California. (G#Q) reflects that the element is very rare but there are taxonomic questions associated with it; the calculated G rank is qualified by adding a Q after the G#). Adding a ? to a rank expresses uncertainty about the rank.

G1/T1 Critically Imperiled – At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

G2/T2 Imperiled— At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

G3/T3 Vulnerable— At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

G4/T4 Apparently Secure— Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5 Secure – Common; widespread and abundant.

GNR Unranked – Global rank not yet assessed.

S1 Critically Imperiled – Critically imperiled in the state because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.

S2 Imperiled – Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or State.

S3 Vulnerable – Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.

S4 Apparently Secure – Uncommon but not rare; some cause for long-term concern due to declines or other factors.

SNR Unranked – State conservation status not yet assessed.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	**Special-Status Rank***	**Habitat Preferences and Distribution Affinities**	**Species Observed On-site**	**Potential to Occur**
Agelaius tricolor tricolored blackbird	ST SSC G1G2 S1S2	Range is limited to the coastal areas of the Pacific coast of North America, from Northern California to upper Baja California. Can be found in a wide variety of habitat including annual grasslands, wet and dry vernal pools and other seasonal wetlands, agricultural fields, cattle feedlots, and dairies. Occasionally forage in riparian scrub habitats along marsh borders. Basic habitat requirements for breeding include open accessible water, protected nesting substrate freshwater marsh dominated by cattails (*Typha* spp.), willows (*Salix* spp.), and bulrushes (*Schoenoplectus* spp.), and either flooded or thorny/spiny vegetation and suitable foraging space providing adequate insect prey.	No	**Not Expected:** This species is not expected to occur due to limited access to open water and suitable nesting substrate.
Anniella pulchra northern California legless lizard	SSC G3 S3	Typical habitat consists of sandy or loose loamy soils under sparse vegetation in chaparral, coastal dunes, and coastal scrub. Prefers soils with high moisture content.	No	**Moderate:** Desert scrub habitat potentially suitable for this species occurs in the project site. A record from approximately 4.5 miles southwest of the project site from approximately 35 years ago was identified by the CNDDB, with additional, but older records occurring within 5 miles of the project site. Further, there are recent records from the project vicinity documented in iNaturalist (2023).
Asio flammeus short-eared owl	SSC G5 S3	Found in swamp lands, both fresh and salt, lowland meadows, and irrigated alfalfa fields. They nest on dry ground in depression concealed in vegetation. The species needs tule patches or tall grasses for nesting/daytime seclusion.	No	**Low (Foraging):** On-site habitat is marginal for foraging and this species may pass through the site looking for prey, although it is probably more likely to occur around agricultural fields wetland and riparian areas nearby. However, there are no occurrence records for this species within 5.0 miles of the project site. In addition, there is no suitable nesting habitat on-site.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	**Special-Status Rank***	**Habitat Preferences and Distribution Affinities**	**Species Observed On-site**	**Potential to Occur**
Athene cunicularia burrowing owl	SSC G4 S3	Yearlong resident of California. Primarily a grassland species, but it persists and even thrives in some landscapes highly altered by human activity. Occurs in open, annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. The overriding characteristics of suitable habitat appear to be burrows for roosting and nesting and relatively short vegetation with only sparse shrubs and taller vegetation.	Yes	**Present:** An unverified observation of this species was made in December 2022 during surveys unrelated to biological resources. Further, suitable desert habitats preferred by this species and potentially suitable burrows for this species are present within the the project site. However, no individuals or recent sign of the species were detected during protocol surveys conducted in 2023. There are nine (9) occurrence records for burrowing owl within a 5-mile radius of the project site and several more outside of the 5-mile range. The closest extant occurrences (Occurrence Number 1067 and 1068) were recorded in 2004, approximately 1.5-miles east of the project site. Additionally, other occurrences (Occurrence Number 1062 and 1063) were recorded in 2004, approximately 1.5-miles to the northeast of the project site.
Bombus crotchii crotch bumble bee	SCE G2 S1S2	Found from coastal California east to the Sierra-Cascade crest and south into Mexico. Primarily occurs in California, including the Mediterranean region, Pacific coast, western desert, great valley, and adjacent foothills through most of southwestern California. Has also been recorded in Baja California, Baja California Sur, and in southwest Nevada. Inhabits open grassland and scrub habitats. Primarily nests underground. Food plant genera include *Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia,* and *Eriogonum.*	No	**Not Expected:** Although marginal habitat that includes this species' food plant genera are present within the project site and this species has been documented in iNaturalist from the project vicinity within the past few years, a survey conducted in 2023 (Dudek 2023) indicates the species is unlikely to occur on-site. However, the nearest documented extant occurrence (Occurrence Number 130) for this species in the CNDDB was documented in 1971 approximately 3 miles to the southwest of the project site.
Buteo regalis ferruginous hawk	WL G4 S3S4	Occurs in open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats. Preys on mostly lagomorphs, ground squirrels, and mice.	No	**Low (Foraging):** The project site provides marginal foraging habitat for this winter species. Additionally, the project site generally lacks perching opportunities, and the species does not breed in California.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Buteo swainsoni Swainson's hawk	ST G5 S3	Summer migrant in southern California. Typical habitat is open desert, grassland, or cropland containing scattered, large trees or small groves. Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah in the Central Valley. Forages in adjacent grassland or suitable grain or alfalfa fields or livestock pastures.	No	**Low (Foraging):** On-site habitat is marginal for foraging and this species may forage across the project site, although it is more likely to occur around agricultural fields. Additionally, the species does not breed in California. There is one known occurrence (Occurrence Number 2773) approximately 2 miles east-southeast of the project site.
Charadrius montanus mountain plover	SSC G3 S2S3	Found in short grasslands, freshly plowed fields, newly sprouting grain fields, and sometimes sod farms. Prefers grazed areas and areas with burrowing rodents with short vegetation, bare ground, and flat topography.	No	**Not Expected:** Suitable foraging habitats preferred by this species are not present within the project site. This species does not nest in California.
Charadrius nivosus nivosus western snowy plover	FT SSC G3T3 S3	Occurs on sandy beaches, salt pond levees and along the shores of large alkali lakes. Breeding generally occurs above the high tide line on coastal beaches, sand spits, dune-backed beaches, sparsely vegetated dunes, beaches at creek and river mouths, and salt pans at lagoons and estuaries. Nests typically occur in flat, open areas with sandy or saline substrates; vegetation and driftwood are usually sparse or absent.	No	**Not Expected:** Suitable foraging and nesting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
Circus hudsonius northern harrier	SSC G5 S3	Yearlong resident of California. Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded area. In general, it prefers saltwater marshes, wet meadows, sloughs, and bogs for nesting and foraging. Nests on the ground in shrubby vegetation or patches of dense vegetation, usually at the marsh edge.	No	**Low (Foraging):** On-site habitat is marginal for foraging and this species may forage across the site, although it is more likely to occur around agricultural fields and open grasslands. However, there are no occurrence records for this species within 5.0 miles of the project site. In addition, there is no suitable nesting habitat on-site.
Corynorhinus townsendii Townsend's big-eared bat	SSC G4 S2	An uncommon species throughout California, it is known to be found in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. The species is extremely sensitive to human disturbance.	No	**Not Expected:** Suitable foraging and roosting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
***Danaus plexippus plexippus* pop. 1** monarch – California overwintering population	FE G4T1T2Q S2	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts are located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	No	**Not Expected:** Suitable foraging and roosting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Falco columbarius merlin	WL G5 S3S4	Winter resident of southern California. Nest in forested openings, edges, and along rivers across northern North America. Found in open forests, grasslands, and especially coastal areas with flocks of small songbirds or shorebirds. This species does not breed in California.	No	**Low (foraging):** There are numerous records of this species occurring around the project site in eBird (eBird 2023). However, the project site generally lacks perching opportunities, and this species only occurs in the region during the winter and does not breed in California.
Gopherus agassizii desert tortoise	FT ST G3 S2S3	Can be found in a wide variety of habitats, such as alluvial fans, desert washes, canyons, and saltbush plains; most tortoises in the Mojave Desert are usually associated with creosote bush scrub on alluvial fans and bajadas. Wildflowers, grasses, and in some cases, cacti make up the bulk of their diet. Some of the more common forbs consumed by the tortoise include desert dandelion (*Malacothrix glabrata*), primrose (*Camissonia* spp. and *Oenothera* spp.) desert plantain (*Plantago ovata*), milkvetches (*Astragalus* spp.), gilia (*Gilia* spp.), desert marigold (*Baileya multiradiata*), Mojave lupine (*Lupinus odoratus*), phacelia (*Phacelia* spp.), desert wishbone-bush (*Mirabilis laevis*), lotus (*Lotus* spp.), forget-me-knots (*Cryptantha* spp.), goldfields (*Lasthenia californica*), California coreopsis (*Leptosyne californica*), white-margin sandmat (*Euphorbia albomarginata*), and the introduced red stemmed filaree (*Erodium cicutarium*).	No	**Low:** There is marginal suitable habitat on-site. However, the closest known extant population (Occurrence Number 1) is over 10-miles west and northwest near Edwards Air Force Base. Additionally, the project site is at the southwestern edge of the species geographic range and is not far removed from developed areas to the south.
Gymnogyps californianus California condor	FP FE SE G1 S2	Current distribution of California condor is considered to be all of the Los Padres National Forest and western half of the Angeles National Forest (USDA Forest Service 2000), with some occasionally found in the Sequoia National Forest. Nest sites are typically located in chaparral, conifer forest, or oak woodland habitats. Nest sites are in cliff caves in the mountains. Some have nested in large cavities within sequoias *(Sequoiadendron giganteum*).	No	**Not Expected:** Suitable foraging and roosting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
Haliaeetus leucocephalis bald eagle	SE FP G5 S3	Locally common yearlong resident of southern California. Typically prefer areas near large water bodies such as sea coasts, coastal estuaries and inland lakes and rivers, in many areas, these birds are found within two miles of a water source. Most populations, specifically those in northern regions, migrate to southern, milder climates annually. Generally, these birds nest in the canopy of tall, coniferous trees, surrounded by smaller trees. They have been reported nesting on the ground, on cliffs, on cellular phone towers, on electrical poles and in artificial nesting towers.	No	**Not Expected:** Suitable foraging and roosting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Lanius ludovicianus loggerhead shrike	SSC G4 S4	Yearlong resident of California. Prefers open habitats with bare ground, scattered shrubs, and areas with low or sparse herbaceous cover including open-canopied valley foothill hardwood, riparian, pinyon-juniper desert riparian, creosote bush scrub, and Joshua tree woodland. Requires suitable perches including trees, posts, fences, utility lines, or other perches. Nests in branches up to 14 feet above the ground frequently in a shrub with thorns or with tangled branching habitats.	Yes	**Present:** One individual of this species was observed within the project site during the general survey conducted in November 2022.
Phrynosoma blainvillii coast horned lizard	SSC G3G4 S4	Occurs in a wide variety of vegetation types including coastal sage scrub, annual grassland, chaparral, oak woodland, riparian woodland and coniferous forest. Its elevational range extends up to 4,000 feet in the Sierra Nevada foothills and up to 6,000 feet in the mountains of southern California. In inland areas, this species is restricted to areas with pockets of open microhabitat, created by disturbance (e.g., fire, floods, unimproved roads, grazing lands, and fire breaks). The key elements of such habitats are loose, fine soils with a high sand fraction; an abundance of native ants or other insects; and open areas with limited overstory for basking and low, but relatively dense shrubs for refuge.	No	**Not Expected:** Loose, fine sandy soils preferred by this species are not present within the project site. The project site primarily consists of compacted surface soils which likely precludes this species from occurring. Further, the known occurrence record (Occurrence Number 147) within 5.0 miles of the project site was recorded in 1964. However, the soil is compacted and hard due to tilling and continual abatement disturbances and provides no vegetative cover.
Plegadis chihi white-faced ibis	WL G5 S3S4	Locally rare resident/migrant in southern California. Prefers to feed in fresh emergent wetland, shallow lacustrine waters, muddy ground of wet meadows, and irrigated or flooded pastures and croplands. Nests in dense, fresh emergent wetland.	No	**Not Expected:** Suitable foraging and nesting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.
Vireo bellii pusillus least Bell's vireo	FE SE G5T2 S2	Summer resident in southern California. Breeding habitat generally consists of dense, low, shrubby vegetation in riparian areas, and mesquite brushlands, often near water in arid regions. Early successional cottonwood-willow riparian groves are preferred for nesting. The most critical structural component of nesting habitat in California is a dense shrub layer that is 2 to 10 feet (0.6 to 3.0 meters) above ground. The presence of water, including ponded surface water or moist soil conditions, may also be a key component for nesting habitat.	No	**Not Expected:** Suitable foraging and nesting habitats preferred by this species are not present within the project site. Additionally, there are no occurrence records for this species within 5.0 miles of the project site.

Table C-2: Special-Status Wildlife Species

Scientific Name Common Name	Special-Status Rank*	Habitat Preferences and Distribution Affinities	Species Observed On-site	Potential to Occur
Xerospermophilus mohavensis Mohave ground squirrel	ST G2G3 S2S3	Restricted to the Mojave Desert in creosote bush scrub (most common), desert saltbush scrub, desert sink scrub, desert greasewood scrub, shadscale scrub, Joshua tree woodland, and annual grasslands. Prefers deep, sandy to gravelly soils on flat to moderately sloping terrain; species tends to avoid rocky areas and is not known to occupy areas of desert pavement. May consume leaves, forbs, shrubs, and grasses of several species and genera, including creosote (*Larrea tridentata*), winter fat (*Krascheninnikovia lanata*), spiny hop sage (*Grayia spinosa*), freckled milk vetch (*Astragalus lentiginosus*), white mallow (*Eremalche exilis*), wooly marigold (*Baileya pleniradiata*), lilac sunbonnet (*Langloisia setosissima*), Mojave monardella (*Monardella exilis*), saltbush, gilia, golden linanthus (*Linanthus aureus*), and Mediterranean grass (*Schismus arabicus*), as well as seeds of box thorn (*Lycium* spp.).	No	**Not Expected:** There is marginal suitable habitat on-site. Although there is 1 occurrence record for this species within 5-miles of the project site and 2 outside of 5-miles, this species has not been trapped in Los Angeles County outside of Edwards Air Force Base in over 30 years (Leitner 2015).

* **U.S. Fish and Wildlife Service (USFWS)**

FE Endangered – any species which is in danger of extinction throughout all or a significant portion of its range.

FT Threatened – any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

FC Candidate – any species which has been designated as a candidate eligible for considering to be listed under the Federal Endangered Species Act.

California Department of Fish and Wildlife (CDFW)

SE Endangered – any native species or subspecies of bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease.

ST Threatened – any native species or subspecies of bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required under the California Endangered Species Act.

SCE The classification provided to a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed as being under review by the Department of Fish and Wildlife for addition to the list of endangered species, or a species for which the commission has published a notice of proposed regulation to add the species to the list of threatened species.

FP Fully Protected – any native species or subspecies of bird, mammal, fish, amphibian, or reptile that were determined by the State of California to be rare or face possible extinction.

SSC Species of Special Concern – any species, subspecies, or distinct population of fish, amphibian, reptile, bird, or mammal native to California that currently satisfies one or more of the following criteria:

- is extirpated from California or, in the case of birds, in its primary seasonal or breeding role;
- is listed as Federally-, but not State-, threatened or endangered; meets the State definition of threatened or endangered but has not formally been listed.
- is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for State threatened or endangered status; or
- has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for State threatened or endangered status.

WL Watch List - taxa that were previously designated as “Species of Special Concern” but no longer merit that status, or which

do not yet meet SSC criteria, but for which there is concern and a need for additional information to clarify status.

NatureServe Conservation Status Rank

The Global Rank (G#) reflects the overall condition and imperilment of a species throughout its global range. The Infraspecific Taxon Rank (T#) reflects the global situation of just the subspecies or variety. The State Rank (S#) reflects the condition and imperilment of an element throughout its range within California. (G#Q) reflects that the element is very rare but there are taxonomic questions associated with it; the calculated G rank is qualified by adding a Q after the G#). Adding a ? to a rank expresses uncertainty about the rank.

G1/T1	Critically Imperiled – At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2/T2	Imperiled— At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3/T3	Vulnerable— At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
G4/T4	Apparently Secure— Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5	Secure – Common; widespread and abundant.
GNR	Unranked – Global rank not yet assessed.
S1	Critically Imperiled – Critically imperiled in the state because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the State.
S2	Imperiled – Imperiled in the State because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or State.
S3	Vulnerable – Vulnerable in the State due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4	Apparently Secure – Uncommon but not rare; some cause for long-term concern due to declines or other factors.
SNR	Unranked – State conservation status not yet assessed.

Appendix D Rare Plant Survey Report

August 8, 2023 JN 192691

NORTHPOINT DEVELOPMENT
Attn: *Jack Lac*
3315 N. Oak Trafficway
Kansas City, MO 64116

SUBJECT: Results of Rare Plant Surveys for the Antelope Valley Logistics Center - West Project, Los Angeles County, California

Dear Mr. Lac:

Michael Baker International (Michael Baker) is pleased to submit this report to Northpoint Development documenting the results of rare plant surveys conducted for the Antelope Valley Logistics Center - West Project (project) located in unincorporated Los Angeles County, California. Michael Baker biologists conducted rare plant surveys during the 2023 blooming season to document the presence or absence of special-status[1] plant species that were determined to have a potential to occur within the project site, also referred to as the survey area.

Project Location

The project site is located in unincorporated Los Angeles County, north of the City of Lancaster. It is generally located north of West Avenue G, east of Sierra Highway, south of West Avenue F, and west of State Route 14 (refer to Figure1, *Regional and Project Vicinity*). The project site is depicted in Section 33 of Township 8 North, Range 12 West, on the U.S. Geological Survey's (USGS) *Lancaster West*, *California* 7.5-minute quadrangle. The site encompasses approximately 119 acres and is bounded by undeveloped land on all sides (refer to Figure 2, *Project Vicinity*, in Attachment A).

Project Description

The proposed project would include construction of two speculative industrial short-term storage warehouse buildings. Each new building would consist of approximately 1,004,000 square-foot building footprint, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces. The project proposes to enhance the local economy and municipal revenue, and furnish local employment

[1] As used in this report, "special-status" refers to plant species that are federal or State-listed, proposed, or candidates; plant species that have been designated a California Rare Plant Rank by the California Native Plant Society; and State/locally rare plant species.

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opportunities for residents, consistent with the goals of the Town & County Antelope Valley Area Plan.

To provide access to the project site, Avenue F would be partially improved by the project proponent along the northly property boundary in addition to partial improvements of 20th Street West along the westerly property boundary and Avenue F-8 along the southernly boundary and full improvements of a new proposed public road on the east side of the property (refer to Figure 3b, *Project Site and Survey Area*). Additional ancillary improvements such as landscaping and utility work would also be required.

Methodology

Literature Review

Prior to field surveys, Michael Baker conducted a literature review and records search for special-status plant species documented within 5 miles of the survey area. Previously recorded occurrences of special-status plant species within a 5-mile radius in the USGS *Lancaster East, Lancaster West, Rosamond Lake, and Rosamond, California* 7.5-minute quadrangles were identified through a query of the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB; CDFW 2023a) and the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California (CIRP; CNPS 2023a). In addition, a Species List was generated utilizing the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation project planning tool (IPaC) (USFWS 2023).

The current conservation status of plant species was verified through lists and resources provided by the CDFW, specifically the *Special Vascular Plants, Bryophytes, and Lichens List* (CDFW 2023b) and the *State and Federally Listed Endangered, Threatened, and Rare Plants of California* (CDFW 2023c). In addition, Michael Baker reviewed previously prepared reports, survey results, and literature, as available, detailing the biological resources previously observed on or within the vicinity of the survey area to gain an understanding of existing site conditions, confirm previous species observations, and note the extent of any disturbances that have occurred within the survey area that would otherwise limit the distribution of special-status biological resources. Standard field guides and texts were reviewed for specific habitat requirements of special-status species, as well as the following resources:

- *A Manual of California Vegetation, Online Edition* (CNPS, 2023b)
- *California Sensitive Natural Communities* (CDFW 2023d)
- *Custom Soil Resource Report for Antelope Valley Area, California* (United States Department of Agriculture [USDA] 2023)
- Google Earth Pro Historical Aerial Imagery from 2003 to 2023 (Google, Inc. 2023)
- *Biological Resources Assessment for an Industrial Warehouse Facility in Antelope Valley, Los Angeles County, California* (Rincon Consultants, Inc [Rincon] 2022)
- Calflora: Information on California plants for education, research and conservation (Calflora 2023)

In total, 15 special-status plant species were identified during reviews of the CNDDB, CIRP, Calflora and IPaC, and were the focus of rare plant surveys. The potentials for special-status species to occur within the survey area were determined based on known occurrence records and the following:

- **Present**: Species was observed or detected within the survey area during the field survey.

- **High**: Occurrence records (within 20 years) indicate that the species has been known to occur on or within 1 mile of the survey area and the site is within the normal expected range of this species. Intact, suitable habitat preferred by this species occurs within the survey area and/or there is viable landscape connectivity to a local known extant population(s) or sighting(s).
- **Moderate**: Occurrence records (within 20 years) indicate that the species has been known to occur within 1 mile of the survey area and the site is within the normal expected range of this species. There is suitable habitat within the survey area, but the site is ecologically isolated from any local known extant populations or sightings.
- **Low**: Occurrence records (within 20 years) indicate that the species has been known to occur within 5 miles of the survey area, but the site is outside of the normal expected range of the species and/or there is poor quality or marginal habitat within the survey area.
- **Not Expected**: There are no occurrence records of the species within 5 miles of the survey area, there is no suitable habitat within the survey area, and/or the survey area is outside of the normal expected range for the species.

All special-status species identified are summarized in Table 1 below.

Table 1: Potentially Occurring Special-Status Plant Species

Scientific Name Common Name	**Federal/ State/CRPR**	**Habitat Preferences and Distribution Affinities**	**Potential to Occur**
Astragalus preussii* var. *laxiflorus Lancaster milk-vetch	None/None/1B.1	Perennial herb. Habitats include chenopod scrub. Found at 2295 feet amsl. Blooming period is March through May.	**Low:** While potentially suitable habitat for this species is present in the project site, only one occurrence record was documented 2.18 miles away from the project site in 1902 (121 years ago).
Calochortus striatus Alkali-mariposa lily	None/None/1B.2	Perennial bulbiferous herb. Habitats include chaparral, chenopod scrub, meadows and seeps, and Mojavean desert scrub. Found at elevations ranging from 230 to 5,235 feet amsl. Blooming period is April through June.	**Present:** This species was detected in the project site during 2023 rare plant surveys.
Calystegia peirsonii Peirson's morning-glory	None/None/4.2	Perennial rhizomatic herb. Habitats include chaparral, chenopod scrub, cismontane woodland, coastal scrub, lower montane coniferous forest, and valley and foothill grassland. Found at elevations ranging from 100 to 4,920 feet amsl. Blooming period is April through June.	**Not expected:** There are no known records of this species within five miles of the project site.

Scientific Name Common Name	Federal/ State/CRPR	Habitat Preferences and Distribution Affinities	Potential to Occur
Canbya candida white pygmy-poppy	None/None/4.2	Annual herb. Habitats include Joshua tree "woodland", Mojavean desert scrub, and pinyon and juniper woodland. Found at elevations ranging from 1,970 to 4,790 feet amsl. Blooming period is March through June.	**Not expected:** One occurrence record was documented 2.18 miles away from the project site with no survey date. The occurrence was last updated in 1995 (28 years ago).
Castilleja plagiotoma Mojave paintbrush	None/None/4.3	Perennial herb (hemiparasitic). Habitats include Great Basin scrub (alluvial), Joshua tree "woodland", lower montane coniferous forest, and pinyon and juniper woodland. Found at elevations from 985 to 8,205 feet amsl. Blooming period is from April through June.	**Not expected:** There are no known records of this species within five miles of the project site.
Chorizanthe parryi* var. *parryi Parry's spineflower	None/None/1B.1	Annual herb. Habitats include chaparral, cismontane woodland, coastal scrub, valley and foothill grassland. Found at elevations ranging from 900 to 4,005 feet amsl. Blooming period is April through June.	**Not expected:** One occurrence record was documented 2.18 miles away from the project site in 1896 (127 years ago).
Chorizanthe spinosa Mojave spineflower	None/None/4.2	Annual herb. Habitats include chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, and playas. Found at elevations ranging from 20 to 4,265 feet amsl. Blooming period is March through July.	**Present:** This species was detected in the survey area during the 2023 rare plant surveys.
Eriastrum rosamondense Rosamond eriastrum	None/None/1B.1	Annual herb. Habitats include chenopod scrub (openings) and vernal pools (edges). Found at elevations ranging from 2,295 to 3,855. Blooming period is April through May.	**High:** CNDDB and Calflora **records of** this species have been made from within 2 miles of the project site in the past 12 years and the project contains chenopod scurb habitat preferred by this species.
Eriophyllum mohavense Barstow woolly sunflower	None/None/1B.2	Annual herb. Habitats include chenopod scrub, Mojavean desert scrub, and playas. Found at elevations ranging from 1,640 to 3,150 feet amsl. Blooming period is March through May.	**Not expected:** There are no known records of this species within five miles of the project site.

Scientific Name Common Name	Federal/ State/CRPR	Habitat Preferences and Distribution Affinities	Potential to Occur
Goodmania luteola Golden goodmania	None/None/4.2	Annual herb. Habitats include meadows and seeps, mojavean desert scrub, playas, and valley and foothill grassland. Found at elevations ranging from 65 to 7,220 feet amsl. Blooming period is April through August.	**High:** Calflora observations for this species were made in 2016 (7 years ago) 2 miles away from the project site and the site contains desert scrub habitat preferred by this species.
Loeflingia squarrosa* var. *artemisiarum Sagebrush loeflingia	None/None/2B.2	Annual herb. Habitats include desert dunes, Great Basin scrub, and Sonoran Desert scrub. Found at elevations ranging from 2,295 to 5,300 feet amsl. Blooming period is April through May.	**Not expected:** One occurrence record was documented within 1 mile of the project site in with no survey date. The occurrence was last updated in 1996 (27 years ago).
Monardella exilis Mojave monardella	None/None/4.2	Annual herb. Habitats include chenopod scrub, desert dunes, Great Basin scrub, Joshua tree "woodland", lower montane coniferous forest, Mojavean desert scrub, and pinyon and juniper woodland. Found at elevations ranging from 1,970 to 6,725 feet amsl. Blooming period is April through September.	**Not expected:** There are no known records of this species within five miles of the project site.
Muilla coronata Crowned muilla	None/None/4.2	Perennial bulbiferous herb. Habitats include chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, and pinyon and juniper woodland. Found at elevations ranging from 2,200 to 6,430 feet amsl. Blooming period is March through April.	**Not expected:** There are no known records of this species within five miles of the project site.
Puccinellia simplex California alkali grass	None/None/1B.2	Annual herb. Habitats include chenopod scrub, meadows and seeps, valley and foothill grassland, and vernal pools. Found at elevations ranging from 5 to 3,050 feet amsl. Blooming period is March through May.	**Not expected:** There are no known records of this species within five miles of the project site.
Yucca brevifolia Western Joshua tree	None/CC/None	Tree. Habitats include Joshua tree woodland. Found at elevations ranging from 1,312 to 7,545 feet amsl. Blooming period is March through May.	**Low:** One calflora observation for this species was made in 2019 (4 years ago) 4.5 miles away from the project site.

Scientific Name Common Name	Federal/ State/CRPR	Habitat Preferences and Distribution Affinities	Potential to Occur

Source: CDFW 2023a; CNPS 2023b; USFWS 2023a; Calflora 2023.
Status Legend
State
CC: Candidate for state listing.
CRPR (California Rare Plant Rank)
List 1B: Plants rare, threatened, or endangered in California and elsewhere.
List 2B: Plants rare, threatened, or endangered in California but common elsewhere.
List 4: Plants of limited distribution – Watch List.
Threat Rank:
.1 Seriously threatened in California — Over 80% of occurrences threatened / high degree and immediacy of threat.
.2 Moderately threatened in California — 20-80% of occurrences threatened / moderate degree and immediacy of threat.
.3 Not very threatened in California — Less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known.

Field Surveys

Michael Baker biologists conducted the 2023 rare plant surveys during the peak blooming periods for plant species occurring in the Antelope Valley region. All surveys were conducted in accordance with accepted survey protocols and guidelines (CDFW 2018; CNPS 2001) using systematic field techniques across all habitats within the survey area to ensure thorough coverage of the entire project site. Special-status species, as detected, were mapped using GPS devices. Small populations (generally less than 50 individuals with negligible acreage) were quantified using clicker counters and GPS point data was recorded. Polygons were mapped for larger populations. One or multiple survey plots were taken within each polygon. Special-status species were quantified within each survey plot and counts were extrapolated for the overall polygon. Refer to Table 1 below for a summary of the survey dates, timing, surveyors, and weather conditions.

Table 1: Survey Dates, Timing, Surveyors, and Weather Conditions

Date	Time (start / finish)	Surveyors*	Weather Conditions	
			Temperature (°F) (start / finish)	Wind Speed (mph) (start / finish)
May 1, 2023	0830 / 1230	TM, OE, MS	56 sunny / 64 sunny	16 - 23
May 23, 2023	0626 / 1049	TM, SM	66 sunny / 85 sunny	8 - 11
June 16, 2023	0900 / 1030	TM, AN, MS	60 cloudy / 63 cloudy	11 - 13

* TM=Trina Ming, OE = Oscar Escobar, MS = Marisol Sanchez, SM = Sammy Martinez, AN = April Nakagawa

The surveys were floristic in nature, indicating that all plants observed were identified to the lowest taxonomic level necessary to determine rarity or listing status. Plant nomenclature used in this report follows the *Jepson eFlora* (Jepson Flora Project 2023) and scientific names are provided immediately following common names of plant species (first reference only). Vegetation communities were mapped and classified to the alliance level in accordance with *A Manual of California Vegetation, Online Edition* (CNPS 2023b). Geographic Information Systems (GIS) ArcGIS Pro software was then used to digitize the mapped vegetation communities and display these data onto an aerial photograph.

Higher than average amounts of rainfall were recorded in the region during the 2022/2023 wet season. The average seasonal rainfall at William J. Fox Airfield, approximately two miles west of the project site, is

6.68 inches; the 2022-2023 season total was 7.47 inches (Los Angeles Almanac 2023a). Rainfall occurring during the months of the survey (May and June 2023) totaled 0.12 and 0.00 inches, respectively (Los Angeles Almanac 2023b). Such conditions lead to exceptional plant growth during the 2023 spring months and likely lead an above-average number of rare plants to germinate than would be expected during a typical blooming season.

Existing Conditions

The project site is vacant and void of any structures. Homeless encampments and illegal dumping occur within the western third of the project site in the vicinity of 20th Street West, and occasional off-road vehicle tracks are present throughout the project site. The site is generally flat and lies at an elevation of approximately 2,305 to 2,311 feet above mean sea level, with a gentle downward slope towards the north-east. Refer to Attachment B for representative photographs of the survey area taken during the field surveys.

According to the *Custom Soil Resource Report for Antelope Valley Area, California* (USDA 2023), the survey area is underlain by one soil unit: Pond-oban complex (Px). Based on a review of Google Earth Pro aerial imagery from 2003 to 2023 (Google, Inc. 2023) and results from the field surveys, it was determined that the survey area consists of and is surrounded by undeveloped open land.

Survey Results

One (1) natural vegetation community, disturbed *Atriplex confertifolia* Shrubland Alliance (*Atriplex confertifolia – Atriplex polycarpa* Association), was mapped within the survey area. In addition, the project site contains one (1) land cover type classified as disturbed. These vegetation communities and land cover types are identified in Table 2 below and depicted on Figure 3, *Vegetation Communities and Land Cover Types*, in Attachment A.

Table 2: Vegetation Community within the Survey Area

Vegetation Community/Land Cover Type	Acreage[2]
Disturbed Shadcale Scrub (*Atriplex confertifolia* Shrubland Alliance)	116.86
Disturbed habitat	1.69
TOTAL	**118.55**

Special-Status Vegetation Communities

No special-status vegetation communities, as designated by CDFW (2023d), are present within the survey area. Disturbed shadscale scrub habitat and disturbed habitat consisting of bare ground or a sparse cover of non-native weedy species and an occasional individual native scrub are present on-site.

Special-Status Plant Species

A total of 30 plant species were observed within the survey area during the 2023 rare plant surveys, each identified to the lowest taxonomic level necessary to determine rarity or listing status. Of those, 70 percent

[2] Total may not equal sum due to rounding.

(21 species) are native species. Refer to Attachment C for a complete list of plant species observed during the 2023 rare plant surveys.

Two special-status plant species were detected during the 2023 rare plant surveys, including alkali mariposa lily (*Calochortus striatus,* California Rare Plant Rank [CRPR] 1B.2) and Mojave spineflower (*Chorizanthe spinosa,* CRPR 4.2). Two species were determined to have a high potential to occur, including Rosamond erisatrum (*Erisatrum rosamondense,* CRPR 1B.1) and golden goodmania (*Goodmania luteola,* CRPR 4.2). Both of these species have CNDDB and/or Calflora records from within 2 miles of the project site and from within the past 20 years. Western Joshua tree (*Yucca brevifolia*, a candidate for State-listing) was determined to have a low potential to occur due to the presence of this species in the Antelope Valley. Surveyors remained especially alert for the presence of species with a potential to occur during focused rare plant surveys. No plant species listed as threatened, endangered, or as a candidate species under the federal Endangered Species Act or the California Endangered Species Act were observed within the survey area. Table 3 below provides the results of the count and acreage quantities determined for each special-status species present on-site.

Table 3: Special-Status Plant Survey Results

Scientific Name	Common Name	Count	Acreage[3]
Calochortus striatus	alkali mariposa lily	16	N/A
Chorizanthe spinosa	Mojave spineflower	4,179,468	15.16

Potential Impacts

Based on the survey results and project description, implementation of the project would result in direct impacts to alkali mariposa lily (CRPR 1B.2) and Mojave spineflower (CRPR 4.2) (refer to Figure 4, *Survey Results* in Attachment A). At this time, it is anticipated that the entire project site would be disturbed, resulting in the removal of all individual special-status plant species.

Conclusions and Recommendations

The project has the potential to impact up to 16 individual alkali mariposa lily and up to 4,179,468 individual Mojave spineflower covering 15.16 acres. Impacts to alkali mariposa lily, a species with a CRPR of 1B.2, would be considered significant under CEQA and as such would require mitigation to reduce impacts to below a level of significance. However, only a total of 16 individual alkali mariposa lily, covering a negligible area, were recorded within the survey area. While such impacts on their own may be considered de minimis, with other special-status species present on-site, mitigation for impacts to alkali mariposa-lily may be achieved in conjunction with compensatory mitigation implemented for impacts to other special-status species mapped on-site (i.e. Mojave spineflower).

Mojave spineflower is a special-status species with a CRPR of 4.2; species with a CRPR of 3 or 4 generally do not require evaluation under CEQA when small numbers or areas of such species are impacted. However, given the quantity of Mojave spineflower present on-site, an evaluation of this CRPR 4 species under CEQA may be warranted and mitigation for impacts to the species ultimately required. On or off-site preservation

[3] As noted in the *Field Surveys* portion of this report, areas containing small numbers of rare plant individuals (generally less than 50 individuals with a negligible acreage) were mapped using points rather than polygons and therefore are accounted for in the count section of the table.

of habitat occupied by the special-status plant species detected on-site, via an in-lieu fee program administered by an agency-approved mitigation bank is anticipated and would provide appropriate compensatory mitigation for impacts to Mojave spineflower.

Please feel free to contact me at (949) 472-3495 or at trina.ming@mbakerintl.com with any questions you may have regarding the results and/or recommendations provided in this report.

Sincerely,



Trina Ming
Biologist
Natural Resources

Attachments:

A. *Project Figures*
B. *Site Photographs*
C. *Plant Species Observed List*
D. *References*

Attachment A

Project Figures



8/7/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

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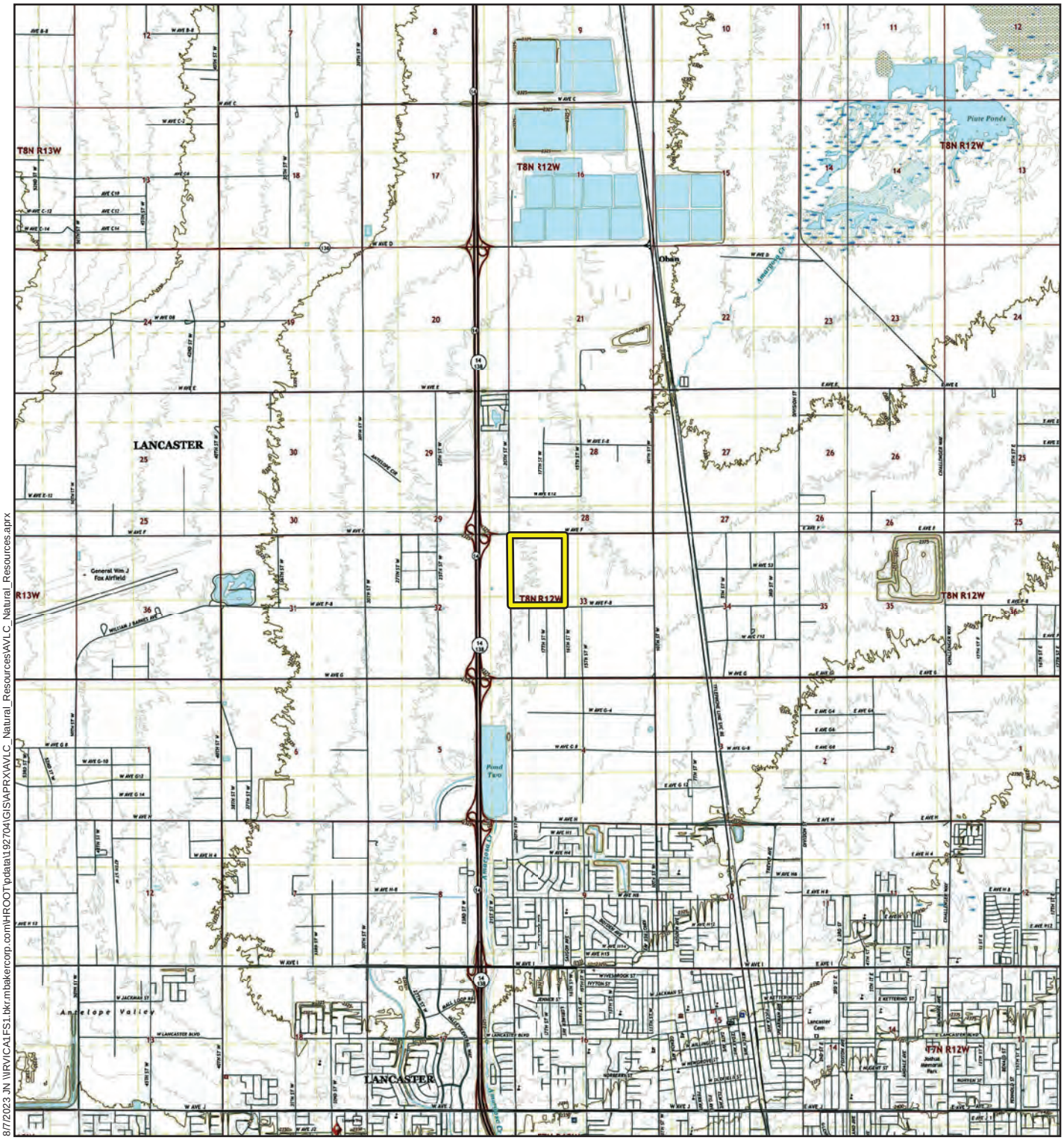
0 2.5 5 Miles

Source: ArcGIS Online, 2018

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
RARE PLANT SURVEY REPORT

Regional Vicinity

Figure 1



8/7/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

Project Site (118.55 acres)

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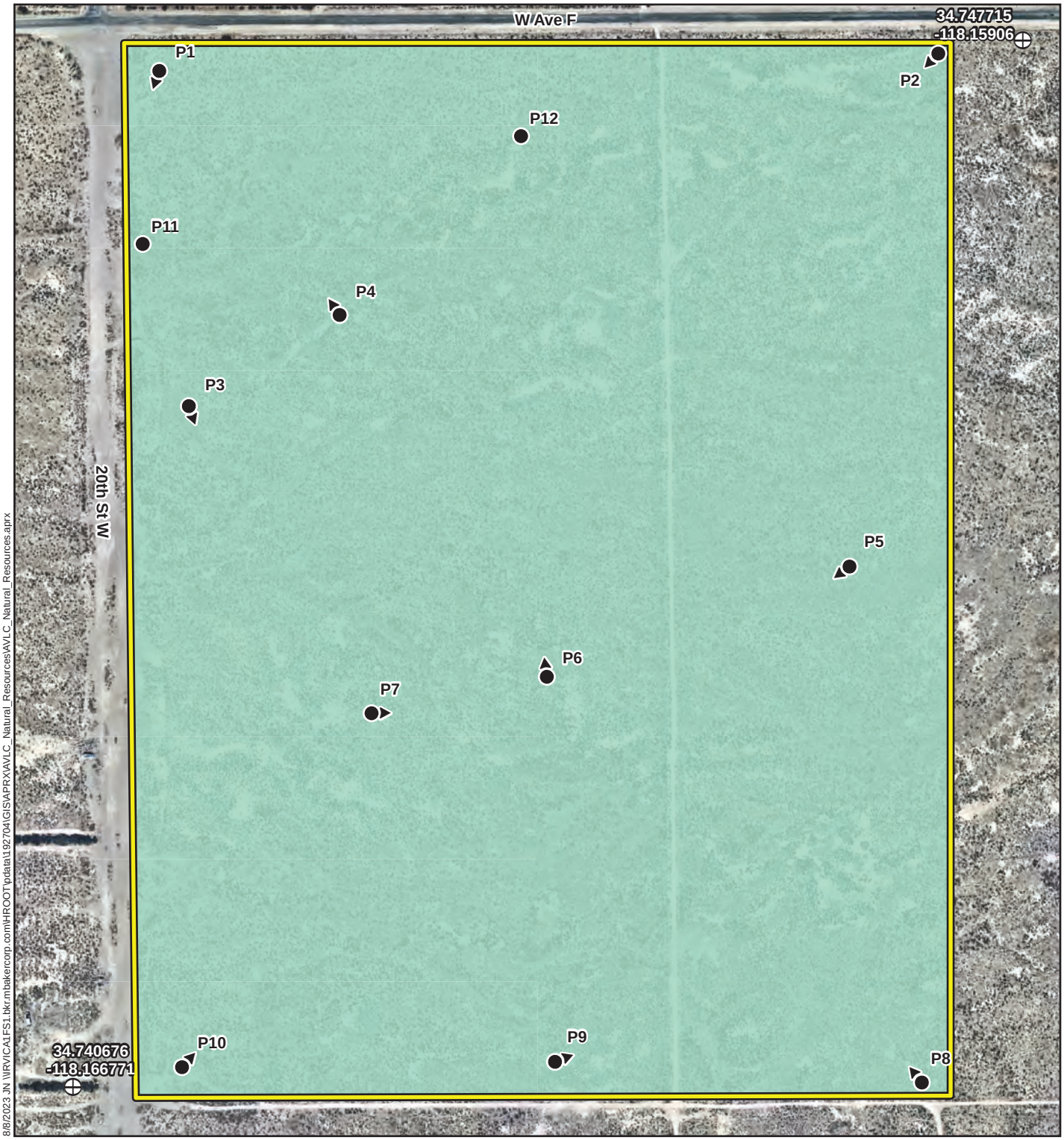
0 0.5 1 Miles

Source: USGS 7.5-Minute topographic quadrangle maps: *Lancaster East, Lancaster West, Rosamond (2022), and Rosamond Lake (2021)*

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
RARE PLANT SURVEY REPORT

Project Vicinity

Figure 2



8/8/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Reference Point
- Disturbed Shadscale Scrub (*Atriplex confertiflora* Shrubland Alliance, 118.55 acres)
- Photograph Point and Direction

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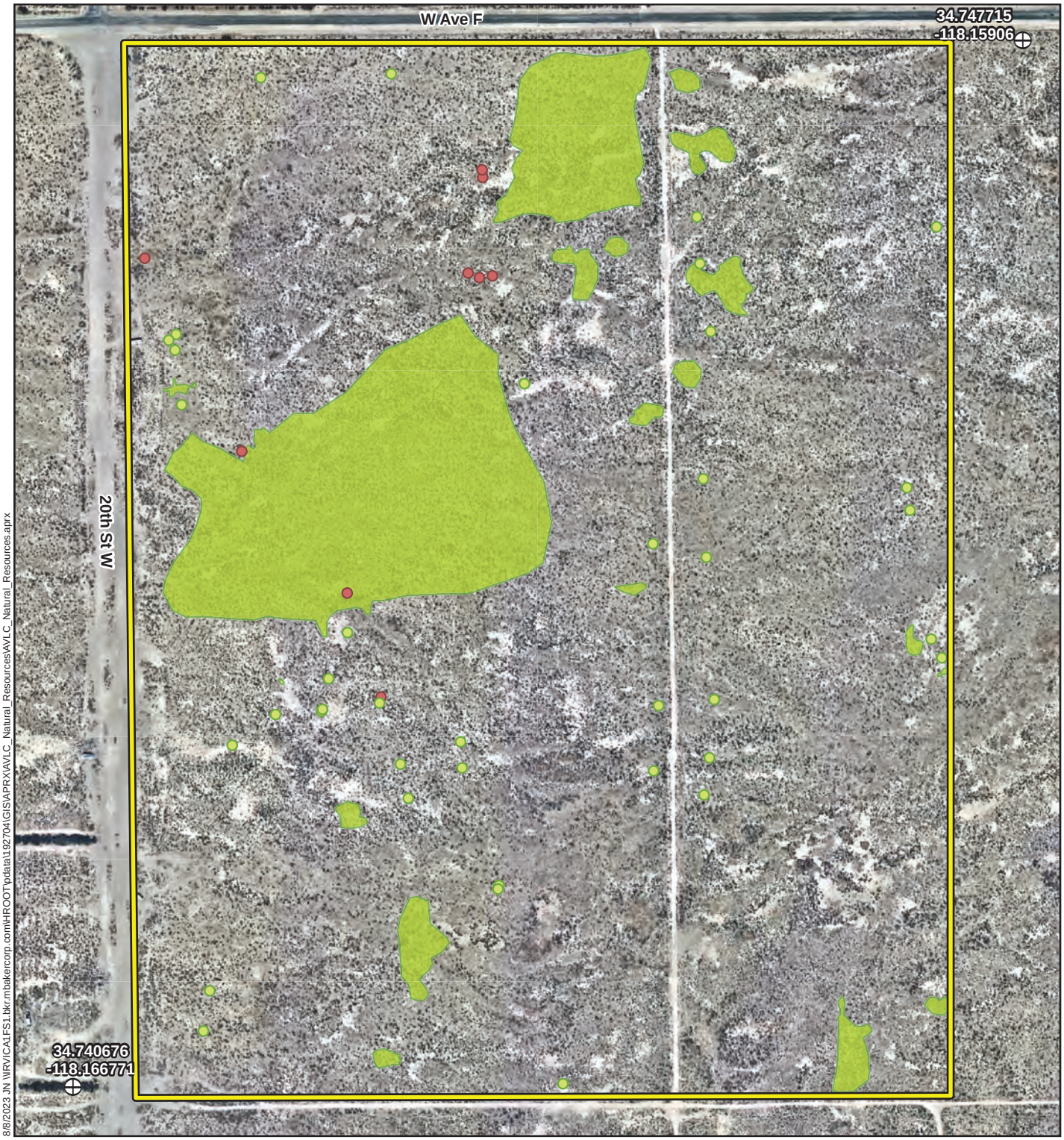
0 175 350 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
RARE PLANT SURVEY REPORT

Vegetation Communities and Other Land Uses

Figure 3



8/8/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Reference Point
- Alkali Mariposa Lily (*Calochortus striatus*)
- Mojave Spineflower (*Chorizanthe spinosa*)
- Mojave Spineflower (15.16 acres)

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0 175 350 Feet

Source: Esri/Maxar (10/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
RARE PLANT SURVEY REPORT

Survey Results

Figure 4

Attachment B

Site Photographs



Photo 1: Standing at the northwestern portion of the survey area facing south.

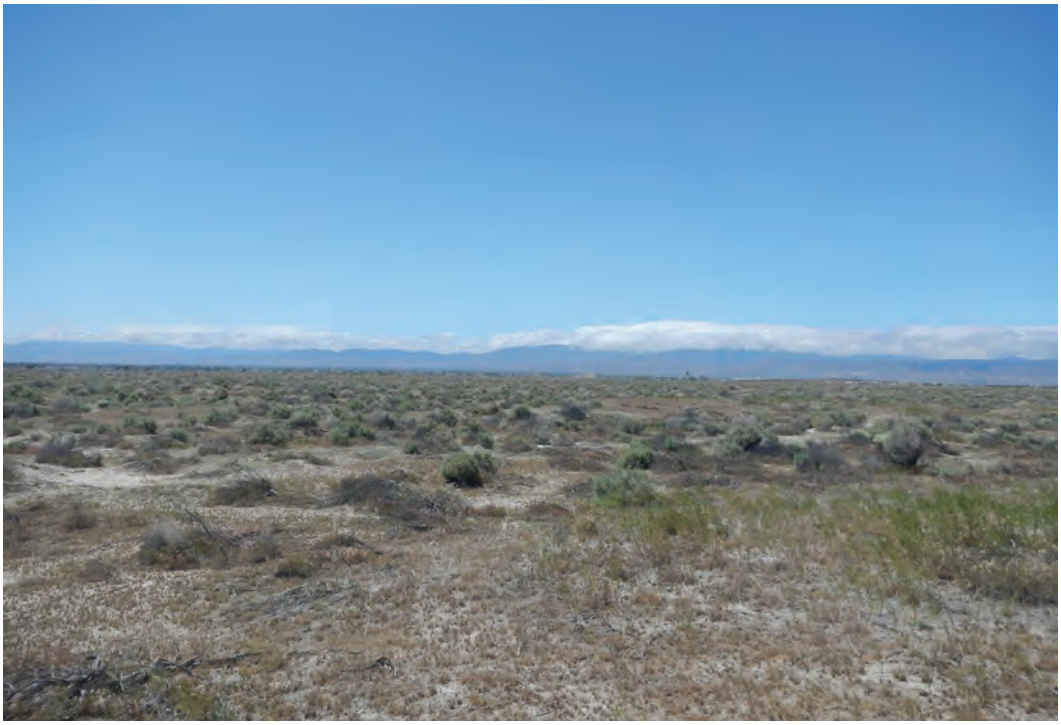


Photo 2: Standing at the northeastern portion of the survey area facing southwest.



Photo 3: Standing at the northwestern portion of the survey area, south of Photo 1, facing southeast.



Photo 4: Standing at the northwestern portion of the survey area facing north.



Photo 5: Standing within the central eastern portion of the survey area facing southwest.



Photo 6: Standing at the central portion of survey area facing north.



Photo 7: Standing at the central western portion of the survey area facing east.



Photo 8: Standing at the southeastern section of the site facing north.



Photo 9: Standing at the central southern portion of the site facing northeast.



Photo 10: Standing at the southwestern portion of the site facing northeast.



Photo 11: Close up photograph of alkali mariposa lily taken prior to blooming. This species was later identified following blooming.



Photo 12: Close up photograph of Mojave spineflower.



Additional photo 1: Close up photograph of a blooming alkali mariposa lily taken on the adjoining property.



Additional photo 2: Close up photograph of blooming Mojave spineflower taken on the adjoining property.

Attachment C

Plant Species Observed List

Table D-1: Plant Species Observed List

Scientific Name*	**Common Name**	**Cal-IPC Rating****	**CRPR*****
Amsinckia sp.	fiddleneck		
*Atriplex prostrata**	fat-hen		
Atriplex confertifolia	shadscale		
Atriplex lentiformis	big saltbush		
Atriplex polycarpa	allscale saltbush		
*Bromus madritensis**	Spanish brome	High	
Bromus sp.*	brome		
Calochortus striatus	alkali mariposa lily		1B.2
Centromadia pungens ssp. *pungens*	common spikeweed		
Chorizanthe spinosa	Mojave spineflower		4.2
Chylismia claviformis	clavate fruited primrose		
Cryptantha sp.	cryptantha		
*Descurainia sophia**	flix weed	Limited	
Eriogonum sp.	buckwheat		
*Erodium cicutarium**	coastal heron's bill	Limited	
Forestiera pubescens	desert olive		
Frankenia salina	alkali heath		
*Hordeum murinum**	wall barley	Moderate	
Lepidium fremontii	desert pepperweed		
*Lepidium perfoliatum**	clasping pepperweed		
Lycium andersonii	Anderson thornbush		
Malacothrix coulteri	snake's-head		
Matricaria discoidea	pineapple weed		
Mentzelia albicaulis	whitestem blazingstar		
Pectocarya penicillata	northern pectocarya		
Phacelia fremontii	Fremont's phacelia		
*Schismus barbatus**	common mediterranean grass	Limited	
Tamarix sp.*	salt cedar	High	
Tetradymia axillaris	catclaw horsebrush		
Uropappus lindleyi	silver puffs		

* Non-native species

** **California Invasive Plant Council (Cal-IPC) Ratings**

High — These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.

Moderate — These species have substantial and apparent—but generally not severe—ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.

Limited — These species are invasive, but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate

rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

*** **California Rare Plant Rank**

1B Plants rare throughout their range with the majority endemic to California

Threat Ranks

.2 Moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat).

4 Plants of limited distribution – Watch List.

Threat Ranks

.2 Moderately threatened in California (20 to 80 percent of occurrences threatened/moderate degree and immediacy of threat).

Attachment D

References

California Department of Fish and Wildlife (CDFW). 2018. *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities*. Dated March 20, 2018.

CDFW. 2023a. RareFind 5, California Natural Diversity Data Base, California. Data base report on threatened, endangered, rare or otherwise sensitive species and communities for the USGS *Lancaster East, Lancaster West, Rosamond Lake, and Rosamond, California* 7.5-minute quadrangles.

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END OF DOCUMENT

Appendix E Burrowing Owl Survey Report

Michael Baker INTERNATIONAL

We Make a Difference

November 16, 2023 JN 192691

NORTPOINT DEVELOPMENT
Attn: *Jack Lac*
3315 North Oak Trafficway
Kansas City, MO 64116

SUBJECT: Results of Focused Burrowing Owl (*Athene cunicularia*) Habitat Assessment for the Proposed Antelope Valley Logistics Center - West Project – Unincorporated Los Angeles County, California

Dear Mr. Lac:

This report has been prepared to document the results of a focused burrowing owl (*Athene cunicularia*; BUOW) habitat assessment and burrow surveys that were conducted by Michael Baker International (Michael Baker) during the 2023 breeding season for the proposed Antelope Valley Logistics Center – West (project or project site) located in unincorporated Los Angeles County, California. Based on the results of Michael Baker's initial review of the California Natural Diversity Database (CDFW 2023), there are multiple records of BUOW in the project vicinity. As such, focused BUOW surveys were conducted during the 2023 breeding season (February 1 through August 31) to document the presence/absence of BUOW within the project site and suitable habitat within 500 feet (survey area) in accordance with the *Staff Report on Burrowing Owl Mitigation* (*Staff Report*) (California Department of Fish and Game [CDFG] 2012). The focused BUOW habitat assessment/burrow survey was conducted on March 8 and March 28, 2023, during the species breeding season to document any suitable habitat within the project site.

Project Location

The project site is generally located north of West Avenue G, east of Sierra Highway, south of West Avenue F, and west of State Route 14 in an unincorporated area of Los Angeles County, California (refer to Figures 1 and 2, *Regional Vicinity* and *Site Vicinity*). The project site is depicted in Section 33 of Township 8 North, Range 12 West, on the U.S. Geological Survey's (USGS) *Lancaster West, California* 7.5-minute quadrangle. The site encompasses approximately 119 acres

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(refer to Figures 3a and 3b, *Project Site and Survey Area*).

Project Description

The proposed project would include construction of two speculative industrial short-term storage warehouse buildings. Each new building would consist of approximately 1,004,000 square-foot building footprint, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces; refer to Exhibits 2-3, Conceptual Site Plan. The project proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town & County Antelope Valley Area Plan.

To provide access to the project site, Avenue F would be partially improved by the project proponent along the northly property boundary in addition to partial improvements of 20th Street West along the westerly property boundary and Avenue F-8 along the southernly boundary and full improvements of a new proposed public road on the east side of the property (refer to Figure 3b, *Project Site and Survey Area*). Additional ancillary improvements such as landscaping and utility work would also be required.

Species Background

Burrowing Owl

The BUOW is a grassland specialist distributed throughout western North America, where it is known to occupy a wide variety of arid and semi-arid open areas within shrub, desert, and grassland environments. The California Department of Fish and Wildlife (CDFW) currently lists the BUOW as a California Species of Special Concern. BUOWs require large open, sparsely vegetated areas, on rolling or level terrain with an abundance of fossorial mammal burrows (> 4 inches in diameter). In addition, BUOWs require open vegetation allowing open line-of-sight of the surrounding habitat to forage as well as watch for predators. BUOWs are dependent upon the presence of burrowing mammals (e.g., California ground squirrel [*Otospermophilus beecheyi*], coyote [*Canis latrans*], American badger [*Taxidea taxus*]) whose burrows are used for roosting and nesting (Haug and Didiuk 1993). The presence or absence of fossorial mammal burrows is often a major factor that limits the presence or absence of BUOW. Where mammal burrows are scarce, BUOWs have been observed digging their own burrows in soft, friable soil and have been observed utilizing man-made cavities such as buried and non-functioning drainpipes, standpipes, and dry culverts. Additionally, BUOWs may burrow beneath rocks and debris or large, heavy objects such as abandoned cars, concrete blocks, or concrete pads. Large, hard objects at burrow entrances stabilize the entrance from collapse and may inhibit excavation by predators.

Adult BUOWs are small owls (approximately 7.5 to 9.8 inches) with long legs and short tails that are speckled brown and white, with yellow eyes and yellow bill. A bold white throat and eyebrows are also typical distinguishing features for BUOWs. Juvenile BUOWs are usually less mottled than adults, with buffy-yellow underparts. BUOWs have crepuscular (dawn and dusk) hunting habits but are often observed perched in or near the burrow entrance during the day. One burrow is typically selected for use as the main

nest burrow, however, BUOWs also utilize satellite burrows that are often located within the immediate vicinity of the main nest burrow. BUOWs prey upon invertebrates and small vertebrates through the low growing vegetation which allows for foraging visibility (Thomsen 1971). They typically forage in short grass, mowed, or overgrazed pasture, golf courses and airports (Thomsen 1971). Based on the *Staff Report on Burrowing Owl Mitigation* (CDFG 2012), the BUOW breeding season in California extends from February 1 through August 31. BUOWs in California may migrate southerly, but often remain in their breeding area during the non-breeding months. The BUOW was once abundant and widely distributed within southern California, but it has declined precipitously in counties such as Los Angeles, Orange, San Diego, Riverside, and San Bernardino.

Regulatory Framework

Migratory Bird Treaty Act

The BUOW is a resident and migratory bird species protected by international treaty under the Migratory Bird Treaty Act (MBTA) of 1918. The MBTA reflects agreements made between the U.S., England, Mexico, the former Soviet Union, and Japan to protect all of North America's migratory bird populations. The MBTA protects migratory bird nests from possession, sale, purchase, barter, transport, import and export, and collection. The other prohibitions (i.e., capture, pursue, hunt, and kill) of the MBTA are inapplicable to nests. The regulatory definition of take, as defined in Title 50 Code of Federal Regulations (C.F.R.) Part 10.12, means to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to hunt, shoot, wound, kill, trap, capture, or collect. Only the verb "collect" applies to nests. It is illegal to collect, possess, and by any means transfer possession of any migratory bird nest. The MBTA prohibits the destruction of a nest when it contains birds or eggs, and no possession shall occur during the destruction (U.S. Fish and Wildlife Service [USFWS] 2017). Certain exceptions to this prohibition are included in Title 50 C.F.R. Section 21.

California Fish and Game Code

Pursuant to Section 3513 of the California Fish and Game Code (CFGC), the California Department of Fish and Wildlife (CDFW) enforces the MBTA consistent with rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA. Additionally, BUOW is protected under Sections 3503, 3503.3, 3511, and 3513 of the CFGC which prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle (March 1 through August 15, annually). Section 3503.5 of the CFGC protects birds in the orders Falconiformes or Strigiformes (Birds of Prey, such as hawks and owls, including BUOWs) which makes it unlawful to take, posses, or destroy their nest or eggs. Further, the *Staff Report* offers long-term assurances for conservation of this species in exchange for biologically appropriate levels of incidental take and/or habitat loss as defined in the approved plan.

Methodology

The entire project site was identified as providing potentially suitable habitat and foraging opportunities for BUOW. As such, a focused habitat assessment/burrow survey and focused BUOW surveys were conducted by Michael Baker biologists John Parent, Anna Jullie, Art Popp, and Ryan Winkleman on five (5) separate

days during the 2023 breeding season in accordance with the *Staff Report* (CDFG 2012). The focused habitat assessment/burrow survey was conducted concurrently with the first focused BUOW survey on March 8, 2023, though survey efforts were stopped due do the deterioration of weather conditions and was resumed on March 28 during favorable weather conditions. Subsequent BUOW surveys were conducted on March 28, May 9, June 5, and July 6, 2023. Surveys were not conducted during rain, high winds, dense fog, or high temperatures. Please refer to Table 1 below for a summary of the survey dates, times, surveyors, and weather conditions for each of the surveys.

Table 1: Survey Dates, Timing, Surveyors, and Weather Conditions

Date	Time (start / finish)	Surveyors*	Weather Conditions	
			Temperature (°F) (start / finish)	Wind Speed (mph)
March 8, 2023	0700 / 1000	AJ, JP, RW	45 clear / 52 clear	10 – 12
March 28, 2023	0600 / 1000	AJ, JP, AP	46 clear / 58 clear	10 – 12
May 9, 2023	0600 / 1000	JP, AJ	53 clear / 80 mostly clear	3 – 12
June 5, 2023	0600 / 0930	JP, AJ	53 mostly clear / 78 few clouds	0 – 2
July 6, 2023	0600 / 1000	JP, AJ	70 clear / 86 clear	2 – 10
*AJ = Anna Jullie, JP = John Parent, AP = Art Popp, RY = Ryan Winkleman				

The entire project site was surveyed for suitable, occupied, and remnant burrows consisting of natural and man-made structures capable of providing suitable roosting/nesting opportunities. During the focused habitat assessment/burrow survey conducted on March 8 and March 28, 2023, a systematic search for suitable burrows (> 4 inches in diameter) within all portions of the project site was conducted, including accessible areas within the 500-foot buffer lying directly east of the project site. Survey transects were spaced out at approximately 3- to 6-meter (10 to 20 feet) intervals to ensure 100% visual coverage of the entire project site. Remaining areas within the 500-foot buffer around the project site were surveyed indirectly, as access to directly survey these areas was not provided. Additionally, surveys of native desert scrub habitat adjacent to the alignment of proposed off-site improvements were also indirectly surveyed from 20th Street West. In accordance with the *Staff Report*, surveys were not conducted during rain, high winds (> 12 miles per hour), dense fog, or temperatures over 90 degrees Fahrenheit. Biologists were generally on-site between the hours of 0600 and 1000 to complete surveys across this project site.

Binoculars were used to scan areas that were inaccessible due to the lack of right-of-entry to observe and identify distant birds; identify any suitable, occupied, and remnant burrows consisting of natural and man-made substrates; and identify any activity around suitable habitat for BUOW. Methods to detect the presence of BUOWs included direct observation, aural detection, and signs of presence (i.e., pellets, whitewash, feathers, tracks, and prey remains). If detected, the location of any suitable habitat, potential burrows, sign (i.e., pellets, whitewash, feathers, or prey remains), and BUOWs observed within the survey

area are recorded and mapped using a hand-held Global Positioning System (GPS) unit.

Existing Conditions

The project site is vacant and void of any structures. Homeless encampments and illegal dumping occur within the western third of the project site in the vicinity of 20th Street West, and occasional off-road vehicle tracks are present throughout the project site. The site is generally flat and lies at an elevation of approximately 2,305 to 2.311 feet above mean sea level, with a gentle downward slope towards the north-east. Refer to Attachment B for representative photographs of the survey area taken during the field surveys.

According to the *Custom Soil Resource Report for Antelope Valley Area, California* (USDA 2023), the survey area is underlain by one soil unit: Pond-oban complex (Px). Based on a review of Google Earth Pro aerial imagery from 2003 to 2023 (Google, Inc. 2023) and results from the field surveys, it was determined that the survey area consists of and is surrounded by undeveloped open land.

The entire project site consists of one natural vegetation community, classified as disturbed shadscale scrub (*Atriplex confertifolia* Shrubland Alliance). This vegetation community is dominated by shadscale (*Atriplex confertifolia*) intermixed with low quantities of other native species including allscale saltbush (*Atriplex polycarpa*), Mojave red sage (*Neokochia californica*), catclaw horsebrush (*Tetradymia axillaris*), wild-rye (*Elymus* sp.), and alkali mariposa lily (*Calochortus striatus*). The understory consisted of a mixture of native spotted wild buckwheat (*Eriogonum* maculatum) and nonnative Spanish brome (*Bromus madritensis*), coastal heron's bill (*Erodium cicutarium*) and common mediterranean grass (*Schismus barbatus*).

Based on a review of the California Natural Diversity Database RareFind 5 there are twenty-nine (29) occurrence records for burrowing owl within the USGS *Lancaster West, Lancaster East, Roasamond Lake,* and *Rosamond California* 7.5-minute quadrangle. The closest extant CNDDB occurrence (Occurrence Number 1888) was recorded in 2013, approximately 3.70 miles southwest of the project site (CDFW 2023a). Additionally, an incidental observation of one individual BUOW was made during surveys conducted in December 2022 unrelated to biological resources.

Survey Results

No individual BUOW were observed within the project site or survey area, and although numerous potentially suitable burrows were observed within the survey area (refer to Figure 4 *Survey Results*), only one burrow with potential BUOW sign was observed during the course of all focused BUOW surveys conducted in 2023. The sign observed included several old and degraded pellets of a suitable size and shape consistent with pellets from a BUOW. No other BUOW sign was observed throughout the survey area.

Several bird species were observed during the surveys, most commonly, common raven (*Corvus corax*), horned lark (*Eremophila alpestris*), mourning dove (*Zenaida macroura*), and American crow (*Corvus brachyrhynchos*). One special-status bird species, Bell's sparrow (*Artemisiospiza belli belli*; CDFW Watch List) was observed on-site. Several species of reptiles were also observed, most commonly Great Basin whiptail (*Aspidoscelis tigris tigris*) and western side-blotched lizard (*Uta stansburiana elegans*), as well as two mammal species; black-tailed jackrabbit (*Lepus californicus*) and desert cottontail (*Sylvilagus audubonii*). California ground squirrel, whose burrows are often utilized by BUOW, were not detected until the last survey effort on July 6, 2023. The wildlife species observed during all BUOW surveys are provided in Attachment C.

Conclusions and Recommendations

While burrows potentially suitable for BUOW were found on-site, based on results of the 2023 focused surveys, no BUOW are currently nesting on-site. No individual BUOW or recent sign of the species were detected. An incidental observation of BUOW was made on-site during a site survey conducted in December 2022 that was unrelated to biological resources.

Although BUOW is currently considered absent from the project site, with known records of BUOW in the project region, potential exists for BUOW to occur on-site prior to implementation of the proposed project. Therefore, a pre-construction clearance survey would be required to reconfirm the absence of BUOWs and maintain compliance with the MBTA and CFGC. In accordance with the *Staff Report*, a "take avoidance survey" would need to be conducted by a qualified biologist following methods described in Appendix D of the *Staff Report* no more than 14 days prior to initiating any ground disturbing activities to avoid direct take of BUOWs, including those that may occupy burrows just prior to construction. Once the survey is completed, the qualified biologist should prepare and submit a final report documenting the results of the clearance survey to CDFW for review and file. A BUOW avoidance and minimization plan should also be prepared and submitted to CDFW for approval prior to the initiation of any project activities, regardless of pre-construction survey results, to account for the presence of owls if a burrow becomes occupied after construction has commenced.

Please do not hesitate to contact me at (714) 394-5646 or john.parent@mbakerintl.com should you have any questions or require further information.

Sincerely,



John Parent
Wildlife Biologist

Attachments:

A. *Project Figures*

B. *Site Photographs*

C. *Wildlife Species Observed List*

D. *References*

Attachment A

Project Figures



8/2/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
FOCUSED BURROWING OWL SURVEY

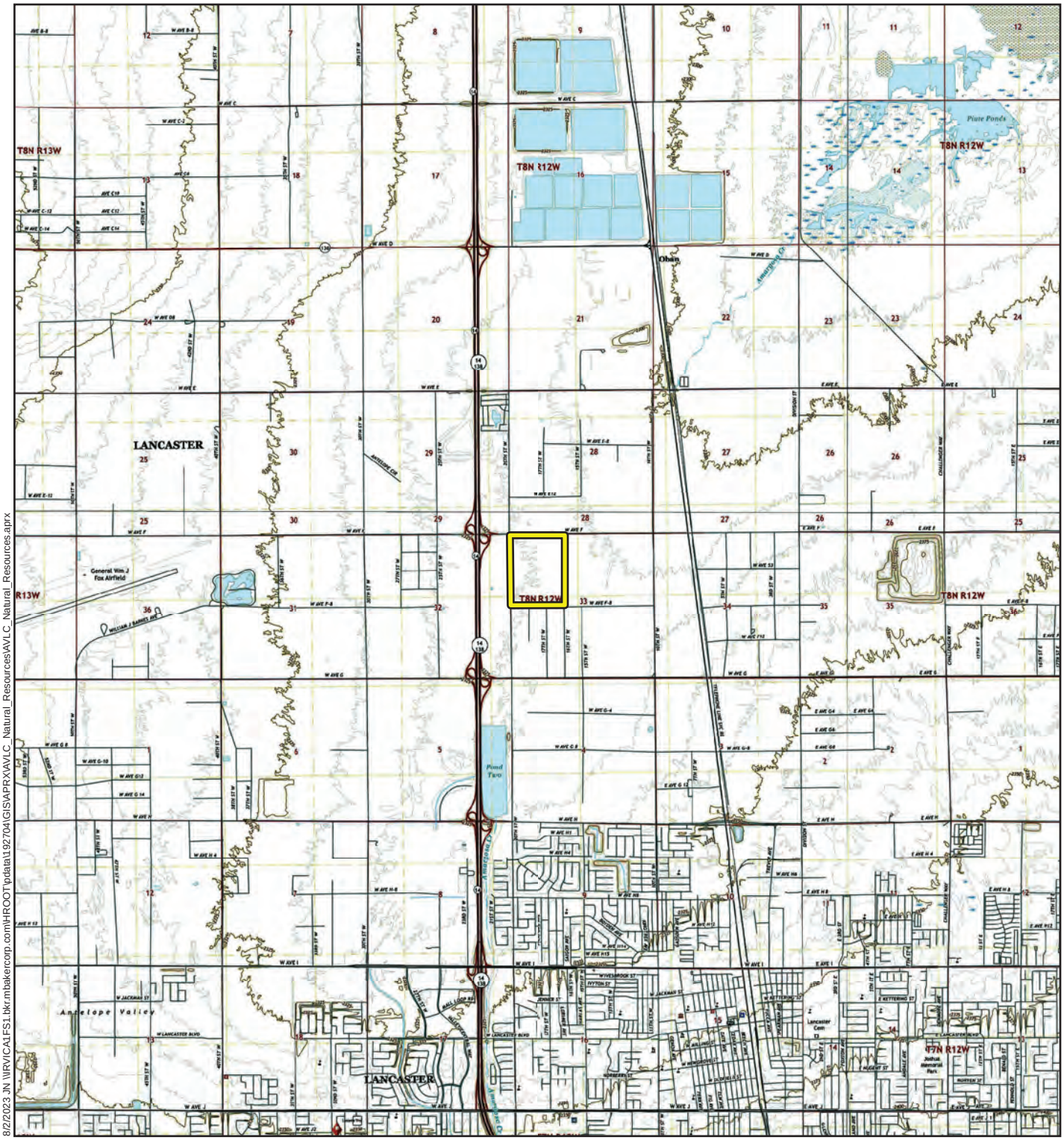
Regional Vicinity

Figure 1

Michael Baker INTERNATIONAL

0 2.5 5 Miles

Source: ArcGIS Online, 2018



8/2/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

Project Site (118.55 acres)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
FOCUSED BURROWING OWL SURVEY

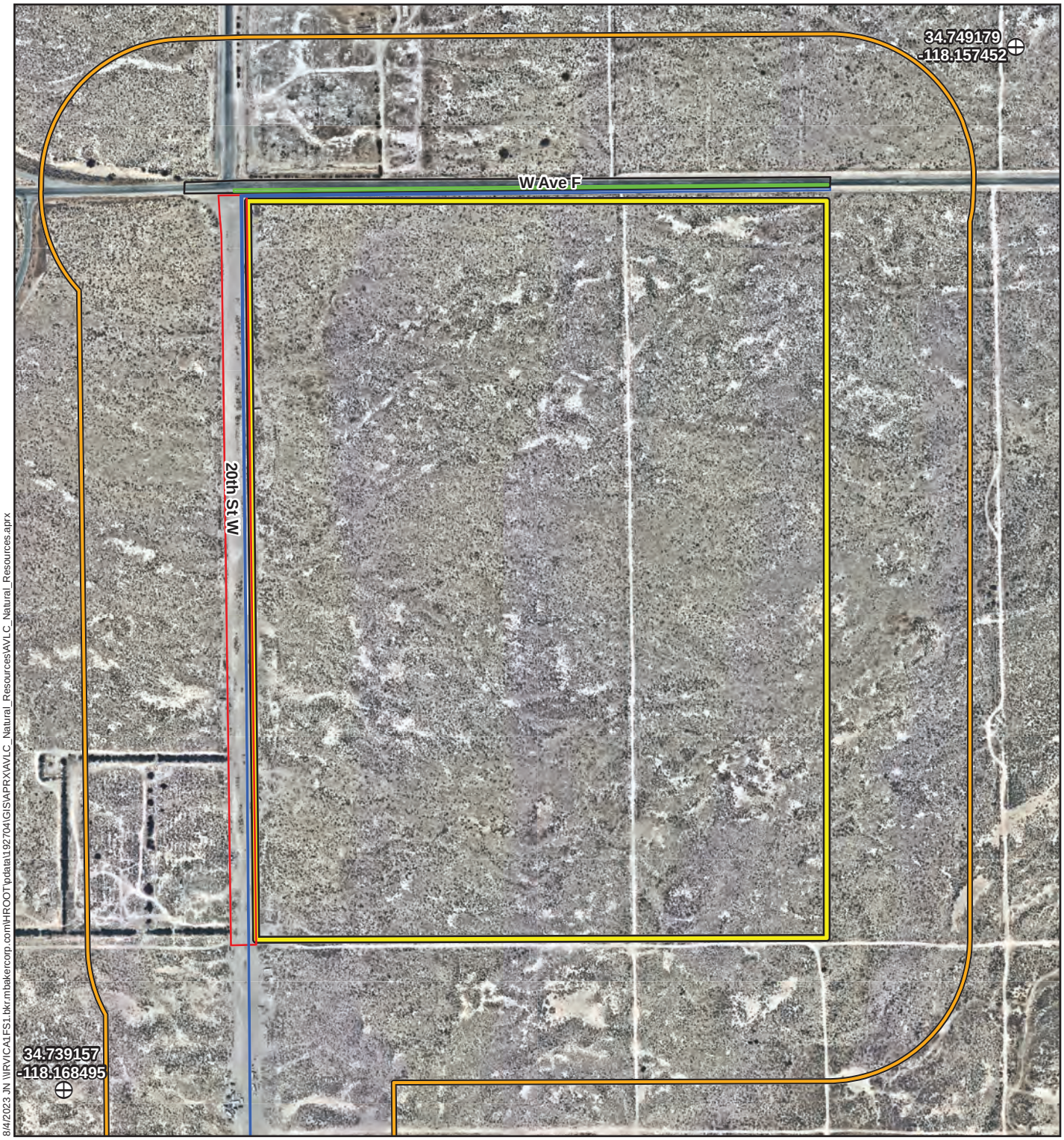
Site Vicinity

Michael Baker INTERNATIONAL

0 0.5 1 Miles

Source: USGS 7.5-Minute topographic quadrangle maps: *Lancaster East, Lancaster West, Rosamond (2022), and Rosamond Lake (2021)*

Figure 2



8/4/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Survey Area (500-foot Buffer)
- Reference Point

Off-Site Improvements

- 20th Street Road Improvements
- Ave F Improvements - Turn Lanes/Possible Widening
- Sewer Extension - AVLC West
- Water - AVLC West

Michael Baker INTERNATIONAL

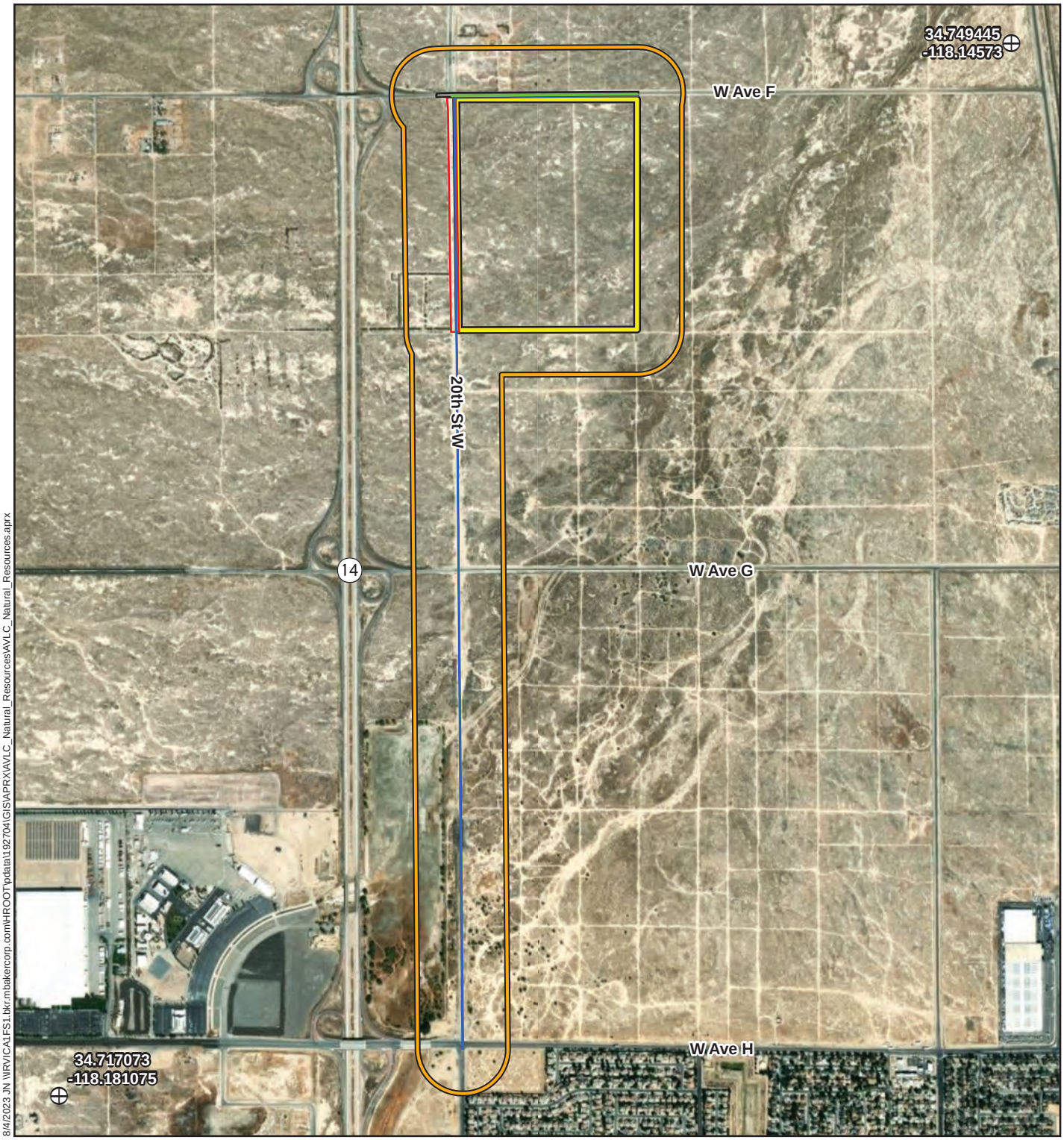
0 250 500 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
FOCUSED BURROWING OWL SURVEY

Project Site and Survey Area

Figure 3A



8/4/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Survey Area (500-foot Buffer)
- Reference Point

Off-Site Improvements

- 20th Street Road Improvements
- Ave F Improvements - Turn Lanes/Possible Widening
- Sewer Extension - AVLC West
- Water - AVLC West

Michael Baker INTERNATIONAL

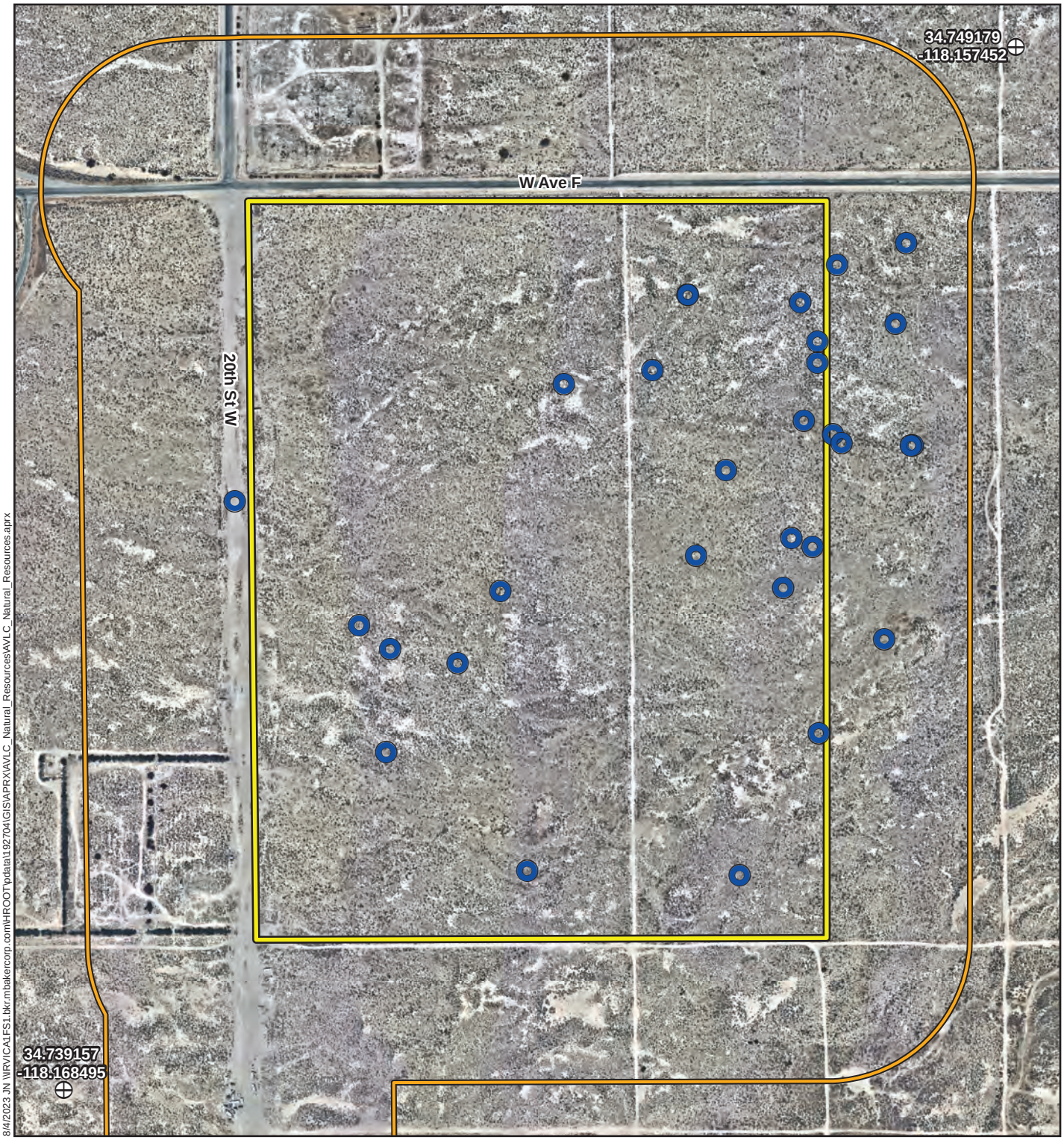
0 800 1,600 Feet

Source: Esri/Vivid/Maxar (10/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
FOCUSED BURROWING OWL SURVEY

Project Site and Survey Area

Figure 3B



8/4/2023 JN \\RVICA1FS1.bkr.mbakercorp.com\HROOT\pdata\192704\GIS\APRX\AVLC_Natural_Resources\AVLC_Natural_Resources.aprx

Legend

- Project Site (118.55 acres)
- Survey Area (500-foot Buffer)
- Reference Point
- Suitable Burrows

Michael Baker INTERNATIONAL

0 250 500 Feet

Source: Nearmap (09/2021)

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC - WEST) PROJECT
FOCUSED BURROWING OWL SURVEY

Survey Results

Figure 4

Attachment B

Site Photographs



Photograph 1: South-facing view from the northeast corner of the project site.



Photograph 2: South-facing view from northwest corner of project site.



Photograph 3: North-facing view from the approximate center of the site along the dirt road that bisects the project site north-south.



Photograph 4: Fossorial mammal burrow within the project site that is potentially suitable for BUOW.



Photograph 5: Fossorial mammal burrow within the project site that is potentially suitable for BUOW.



Photograph 6: Old BUOW pellet found in proximity to a potentially suitable fossorial mammal burrow. No other or recent sign observed.



Photograph 7: North-facing view of the alignment of off-site improvements along 20th Street West.



Photograph 8: Northeast-facing view of the off-site improvements survey area along Avenue F.

Attachment C

Wildlife Species Observed List

Wildlife Species Observed List

Scientific Name	**Common Name**	**Status***
Birds		
Artemisiospiza belli belli	Bell's sparrow	Watch List
Buteo jamaicensis	red-tailed hawk	
Callipepla californica	California quail	-
Cathartes aura	turkey vulture	
Corvus brachyrhynchos	American crow	-
Corvus corax	common raven	-
Eremophila alpestris	horned lark	-
Haemorhous mexicanus	house finch	
Melospiza melodia	song sparrow	-
Mimus polyglottos	northern mockingbird	
Spinus psaltria	lesser goldfinch	
Sturnella neglecta	western meadowlark	
Zenaida macroura	mourning dove	-
Zonotrichia leucophrys	white-crowned sparrow	
Mammals		
Canis latrans	coyote	-
Lepus californicus	black-tailed jackrabbit	
Otospermophilus beecheyi	California ground squirrel	
Sylvilagus audubonii	desert cottontail	-
Reptiles		
Aspidoscelis tigris tigris	great basin whiptail	-
Scleroporus occidentalis	western fence lizard	-
Uta stansburiana elegans	western side-blotched lizard	-

Attachment D

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[END OF DOCUMENT]

APPENDIX C
Cultural and Paleontological Resources Reports

Michael Baker
INTERNATIONAL

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Los Angeles, California 90017
Contact: Marc Beherec, PhD, RPA | marc.beherec@mbakerintl.com

PHASE 1 CULTURAL RESOURCES ASSESSMENT

Antelope Valley Logistics Center West Project
Los Angeles County, California

Prepared for:
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, MO 64150

Prepared by:
Marc A. Beherec, PhD, RPA
Marcel Young, BA
Maximilian van Rensselaer, BA, RA
Alexandra Navarro, BA

February 2023

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Appendix B Historical Society Consultation
Appendix C Map: Archaeological Resources within the APE (Confidential)
Appendix D DPR 523 Series Forms (Confidential)

1 MANAGEMENT SUMMARY

NorthPoint Development proposes the construction of the Antelope Valley Logistics Center West Project (proposed project). The proposed project would include construction of two distribution warehouses on approximately 121 acres. The project is subject to compliance with the California Environmental Quality Act (CEQA); the County of Los Angeles is the CEQA lead agency. Since the project will affect waters of the United States, the County must meet the requirements of Sections 401 and 404 of the Clean Water Act and Section 106 of the National Historic Preservation Act (NHPA), which requires that every federal agency account for the effects of its undertakings on historic properties. Since the US Army Corps of Engineers (USACE) is a federal agency and since the project is an "undertaking" as defined by 36 Code of Federal Regulations (CFR) 800.16(y), and the undertaking has the potential to cause effects on historic properties (36 CFR 800.3[a]), it is necessary to identify, evaluate, and mitigate effects to cultural resources within the area of potential effects (APE). This Phase 1 Cultural Resources Assessment is produced compliant with CEQA and USACE Section 106 Standards.

In support of the proposed project, Michael Baker International conducted background and archival research; South Coastal Central Information Center (SCCIC) records search; Native American Heritage Commission (NAHC) Sacred Lands File search; historical society consultation; archaeological field survey; buried site sensitivity analysis; National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) evaluation of five resources; and impacts and effects analysis. These efforts were completed to determine whether the proposed project could result in significant impacts to historical and archaeological resources as defined by CEQA Section 15064.5(a) or adverse effects to historic properties as defined by 36 CFR 800.16(l)(1).

Based on the results of the study, six historic-period archaeological sites were identified and evaluated as ineligible for the NRHP and CRHR, and therefore are not historic properties as defined by 36 CFR 800.16(l)(1) or historical resources as defined by CEQA Section 15064.5(a), nor do they meet the definition of a "unique archeological resource" as defined in Public Resources Code (PRC) Section 21083.2. As such, no further work is recommended for these resources. A finding of no historic properties affected with conditions under Section 106 and less than significant impact with mitigation incorporated under CEQA is appropriate for the project. Refer to recommended mitigation measures CUL-1 through CUL-6 in Chapter 8.

TABLE MS-1: CULTURAL RESOURCES WITHIN THE APE

Resource Name	Description	NRHP/CRHR Evaluation Recommendation	Historic Property/ Historical Resource
P-19-003004 / CA-LAN-3004	Refuse scatter	Ineligible	No
AVLC-001H	Refuse scatter	Ineligible	No
AVLC-002H	Refuse scatter	Ineligible	No
AVLC-003H	Refuse scatter	Ineligible	No
AVLC-004H	Refuse scatter	Ineligible	No
AVLC-005H	Refuse scatter	Ineligible	No

2 INTRODUCTION

2.1 PROJECT LOCATION

The Antelope Valley is located in the northern portion of Los Angeles County, in the geographic subregion of the western tip of the Mojave Desert, and is situated between the Tehachapi, Sierra Pelona, and the San Gabriel Mountains (**Figure 1**). On a regional basis, the area and its sphere of influence (SOI) are accessible via State Route 14 (SR-14) and State Route 138 (SR-138). Cities surrounding the area include the City of Lancaster to the south, City of Rosamond to the north, and unincorporated Los Angeles County to the east and west.

The proposed project site is specifically located in Antelope Valley unincorporated Los Angeles County area, within the eastern portion of the Town and Country Antelope Valley Area Plan. It is situated immediately east of SR-14, south of Avenue F, and adjacent to 20th Street West (**Figure 2**). The project is located within Township 8 North, Range 12 West, Section 33, and Township 7 North, Range 12, Section 4, as depicted in the *Lancaster West* 1:24,000 United States Geological Survey (USGS) quadrangle.

The proposed project site is an approximately 121-acre property located at the southeast corner of West Avenue H and 20th Street West, north of West Avenue F-8 (where the proposed distribution center would be constructed) and adjacent roadways. The project site consists of one parcel, assigned Assessor's Parcel Number (APN) 3118-015-001. The site is fenced, vacant, and undeveloped and has not had any development to date. The site is generally flat, with a gentle downward slope toward the northeast. The site is void of any improved structures.

2.2 PROJECT CHARACTERISTICS

The proposed project would include construction of two speculative industrial short-term storage warehouse buildings on approximately 121 acres. Each new building would have a footprint of approximately 1,004,000 square foot, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces. The project proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town and County Antelope Valley Area Plan.

To provide access to the project site, Avenue F would be partially improved along the southerly property boundary in addition to partial improvements of 20th Street West along the westerly property boundary, and Avenue F-8 along the northerly boundary and full improvements of a new proposed public road on the east side of the property. Additional ancillary improvements such as landscaping and utility work would also be required.

Primary components of the proposed project are discussed in further detail below.

Proposed Warehouse Building

As noted above, each industrial short-term warehouse building would consist of approximately 1,004,000 square feet, which includes approximately 40,000 square feet of office space. These two buildings would

occupy the majority of the project site with an approximate floor area ratio (FAR) of 38 percent. Each building would have a maximum height of 49 feet. Each building would be constructed with tilt-up concrete wall panels and painted with variations of earth tone colors with either a hybrid wood and steel roof structure or a full steel metal deck roofing system. Each warehouse building would also include a total of 82 truck loading docks on the northern and southern sides of the building.

Proposed Warehouse Operations

Each proposed warehouse building is being designed and built on a speculative basis with the intended function as a short-term storage warehouse, operating up to 24 hours a day, seven days a week, and employing up to approximately 1,000 people (total of 2,000). The facility would receive products from vendors and other warehouses. Products would be stored in different storage types (mainly traditional pallet racking systems and shelving), providing the capability to fulfill customer orders and sort them to downstream transportation connections. These functions do not require ground-disturbing activities.

Roadway Improvements

There will be widening of existing and construction of new roads adjacent to the site.

- **Avenue F:** The project includes half street improvements along the south side of existing Avenue F, from the intersection of 20th Street West to a new public road, a total of approximately 2,200 linear feet. Avenue F is currently an approximately 20-foot-wide asphalt surface with drainage ditches on both sides. The improvements will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the south side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **20th Street West:** The project also includes half street construction of the east side of 20th Street West extending from the intersection of Avenue F south to Avenue F-8, approximately 2,650 linear feet. This corridor is currently a dirt surface. The improvements will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the east side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **Avenue F-8:** The project also includes half street construction of the north side of Avenue F-8 extending from 20th Street to the east to a new public road, approximately 2,200 linear feet. The corridor is currently a dirt surface. The improvements will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the east side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **New Proposed Public Road (along the east property boundary):** The project also includes full street construction of a new north–south road from Avenue F to Avenue F-8. There is not an existing road in this location. The improvements will provide the ultimate width for the road consisting of two lanes of traffic with curb and gutter and sidewalk on both sides of the road and full right-of-way dedication.

On-Site Circulation

Project access would be provided along all sides of the development with construction of the public roads. Access to the individual buildings will be via private roads that connect to the public roads.

Parking

Trailer parking would be provided to the north and south of each warehouse building. Employee and visitor passenger vehicle parking would be provided on the west and east sides of each warehouse building. To accommodate the parking needs associated with the warehouse and office uses for each building, 222 trailer parking stalls and 861 passenger car parking stalls (including Americans with Disabilities Act [ADA] stalls) are proposed. Bicycle parking and storage is also proposed on-site with a total of 51 spots for each building. Bicycle racks will be distributed evenly at all employee entrances to the building. The proposed parking would require grading and paving of these portions of the project area.

Utilities

On-site utilities would include electric, water, and sewer. The project proposes to connect to the existing public water main at the intersection of Avenue H and 20th Street West and extend the water main north along 20th Street West to the site. The proposed domestic water connection for each building will occur along 20th Street West. The domestic water line would extend east and branch off north and south to each building, and connect at the center of each building. Additionally, a fire water line will extend around the perimeter of each building per Los Angeles County Fire Department regulations.

A 48-inch and 78-inch sanitary sewer main exists within existing easements along 20th Street West. A sanitary sewer lateral will connect each building to the sanitary sewer main.

Electric will be extended from the existing overhead distribution lines running along 10th Street West.

Landscaping

Landscaping consists of trees, shrubs, ground cover, mulch, and decomposed granite. Foundation plantings are indicated adjacent to building entrances. Trees are indicated throughout the site. Islands provide a landscaped area of 2 percent of parking lots.

Drainage

On-site surface water would be collected at the proposed storm drains located throughout the site and conveyed through the new stormwater pipes to the proposed stormwater detention basins located in the northern and southern portions of the site. The project site also has a floodplain volume mitigation pond at its southern portion to detain the water during potential flood events.

Maximum Depths of Excavation

Depth of excavation for the project will vary across the project site. Maximum depth of the ground leveling overexcavation is anticipated to reach approximately 19 feet below the present ground surface.

2.3 AREA OF POTENTIAL EFFECTS

The APE for an undertaking is defined by 36 CFR 800.16(d) as "the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist."

The APE for the proposed project is identified as the three-dimensional locale where undisturbed archaeological deposits may be disturbed by the project. This includes the western approximately three-quarters of APN 3118-015-001. The APE also includes public road right-of-ways planned for improvement, including 20th Street West extending from the intersection of Avenue F south to Avenue F-8; Avenue F, from the intersection of 20th Street West to a new public road; and Avenue F-8 extending from 20th Street to the east to a new public road. The vertical APE is 20 feet below the ground surface to encompass the maximum depth of excavation anticipated for the project. The APE is depicted in **Figure 3**.



Figure 1. Regional Vicinity

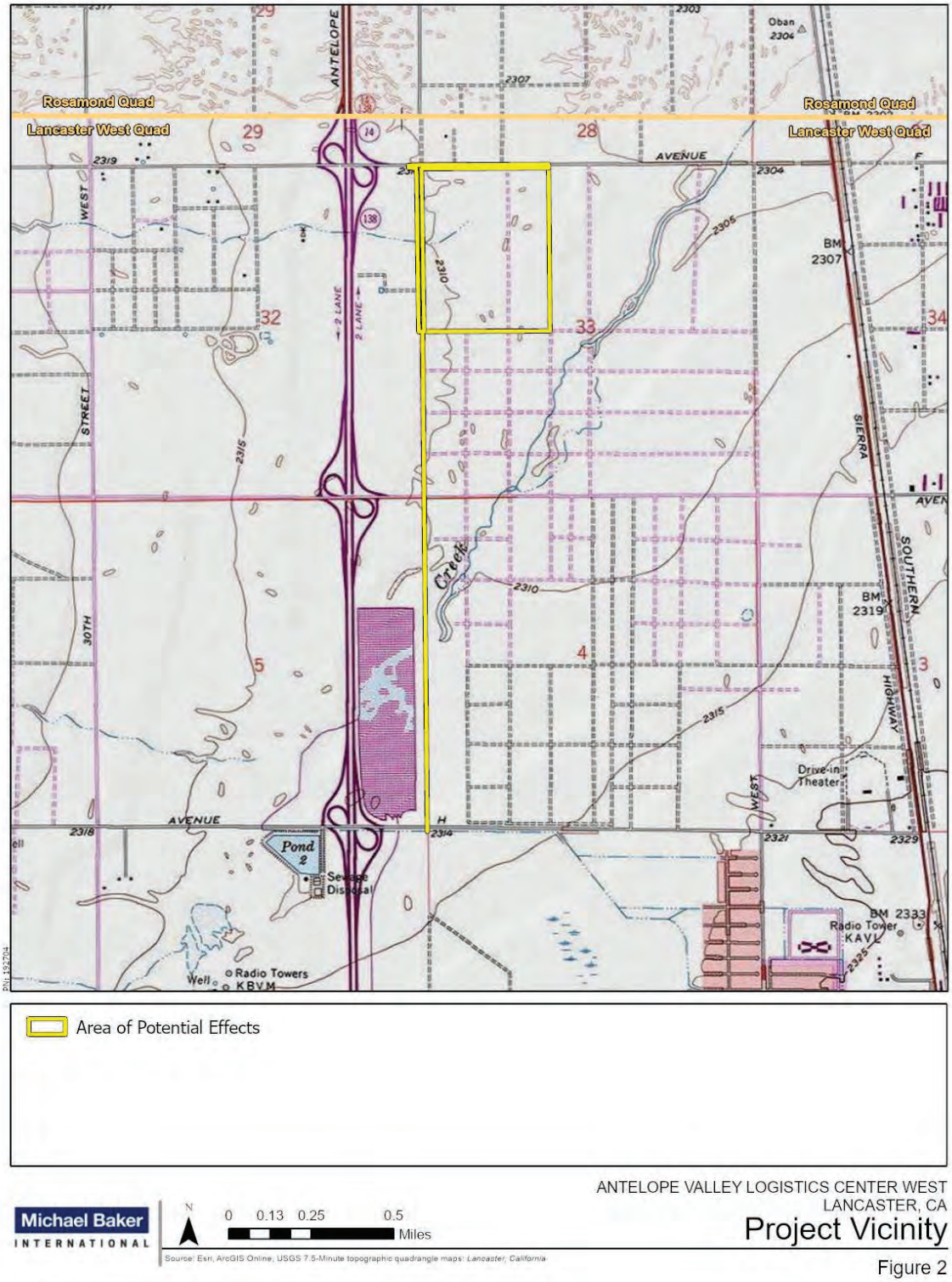


Figure 2. Project Vicinity



Figure 3. Area of Potential Effects

3 REGULATORY FRAMEWORK

3.1 CLEAN WATER ACT

Section 404 of the Clean Water Act (CWA) establishes a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects, infrastructure development, and mining projects. Section 404 requires a permit to be obtained before dredged or fill material may be discharged into waters of the United States.

The proposed project requires filling and/or redirection of ephemeral drainages. As a result, a Section 404 permit must be obtained from the USACE prior to construction. Because the project falls within the jurisdiction of a federal agency and requires a federally issued permit, the project is considered a federal undertaking.

3.2 NATIONAL HISTORIC PRESERVATION ACT

The project requires federal permitting, license, or approval; therefore, the project meets the definition of an undertaking in 36 CFR Section 800.16(y). Section 106 of the NHPA requires federal agencies to take into account the effects of their undertakings on historic properties, and afford the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings (36 CFR Section 800.1). A historic property is defined as any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the NRHP. Properties of traditional religious and cultural importance to Native Americans are considered under Section 106 (36 CFR Sections 800.3-800.10) and Section 101 (d)(6) of the NHPA.

National Register of Historic Places

The NRHP is the official register of districts, sites, buildings, structures, and objects determined to be worth special protections due to their historic or artistic significance. The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:

A. that are associated with events that have made a significant contribution to the broad patterns of our history; or

B. that are associated with the lives of persons significant in our past; or

C. that embody the distinctive characteristics of a type, period, or method of construction 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; or

D. that have yielded, or may be likely to yield, information important in prehistory or history.

All resources or properties nominated for listing in the NRHP must retain integrity, which is the authenticity of a historic resource's physical identity evidenced by the survival of characteristics that

existed during the resource's period of significance. Resources, therefore, must retain enough of their historic character or appearance to be recognizable as historic resources and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. It must also be judged with reference to the particular criteria under which a resource is proposed for nomination.

3.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA applies to all discretionary projects undertaken or subject to approval by the state's public agencies (CCR Title 14[3] Section 15002[i]). CEQA conditions that it is the policy of the state of California to "take all action necessary to provide the people of this state with historic environmental qualities and preserve for future generations examples of the major periods of California history" (PRC Section 21001[b], [c]). Under the provisions of CEQA, "a project with an effect that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (CCR Title 14[3] Section 15064.5[b]).

CEQA Guidelines Section 15064.5(a) defines a "historical resource" as a resource that meets one or more of the following criteria:

- Listed in, or eligible for listing in, the CRHR.
- Listed in a local register of historical resources (as defined in PRC Section 5020.1[k]).
- Identified as significant in a historical resource survey meeting PRC Section 5024.1(g) requirements.
- Determined to be a historical resource by a project's lead agency (CCR Title 14[3] Section 15064.5[a]).

A historical resource consists of "any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California. … Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing in the California Register of Historical Resources" (CCR Title 14[3] Section 15064.5[a][3]).

The CEQA planning process requires considering historical resources and unique archaeological resources (CCR Title 14[3] Section 15064.5; PRC Section 21083.2). If feasible, adverse effects to the significance of historical resources must be avoided or mitigated (CCR Title 14[3] Section 15064.5[b][4]). The significance of a historical resource is impaired when a project demolishes or materially alters adversely those physical characteristics of a historical resource that convey its historical significance and justify its eligibility for the CRHR. If there is a substantial adverse change in the significance of a historical resource, the preparation of an environmental impact report may be required (CCR Title 14[3] Section 15065[a]).

If the cultural resource in question is an archaeological site, CEQA (CCR Title 14[3] Section 15064.5[c][1]) requires that the lead agency first determine if the site is a historical resource as defined in CCR Title 14(3) Section 15064.5(a). If the site qualifies as a historical resource, potential adverse impacts must be considered in the same manner as a historical resource (OHP 2001a). If the archaeological site does not qualify as a historical resource but does qualify as a unique archaeological site, then the archaeological

site is treated in accordance with PRC Section 21083.2 (CCR Title 14[3] Section 15069.5[c][3]). In practice, most archaeological sites that meet the definition of a unique archaeological resource will also meet the definition of a historical resource. CEQA defines a "unique archaeological resource" as an archaeological artifact, object, or site about which it can be demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one or more of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
- Has a special and particular quality, such as being the oldest of its type or the best available example of its type.
- Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC Section 21083.2[g]).

If an impact to a historical or archaeological resource is significant, CEQA requires feasible mitigation measures to minimize the impact (CCR Title 14[3] Section 15126.4[a][1]). Mitigation must lessen or eliminate the physical impact that the project will have on the resource. Generally, drawings, photographs, and/or displays do not mitigate the physical impact on the environment caused by the demolition or the destruction of a historical resource. However, CEQA (PRC Section 21002.1[b]) requires that all feasible mitigation be undertaken even if it does not mitigate impacts to a less than significant level (OHP 2001a:9).

California Register of Historical Resources

The CRHR is a guide to cultural resources that must be considered when a government agency undertakes a discretionary action subject to CEQA. The CRHR helps government agencies identify and evaluate California's historical resources (OHP 2001b:1) and indicates which properties are to be protected, to the extent prudent and feasible, from substantial adverse change (PRC Section 5024.1[a]). Any resource listed in, or eligible for listing in, the CRHR is to be considered during the CEQA process (OHP 2001a:7).

A cultural resource is evaluated under four criteria to determine its historical significance. A resource must be significant in accordance with one or more of the following criteria:

- Criterion 1: Is associated with events that have made a significant contribution to the broad pattern of California's history and cultural heritage.
- Criterion 2: Is associated with the lives of persons important in 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.

Age

In addition to meeting one or more of the above criteria, the CRHR requires that sufficient time must have passed to allow a "scholarly perspective on the events or individuals associated with the resource." Fifty

years is used as a general estimate of the time needed to understand the historical importance of a resource (OHP 2006:3). The OHP recommends documenting, and taking into consideration in the planning process, any cultural resource that is 45 years or older (OHP 1995:2).

Period of Significance

The period of significance for a property is "the length of time when a property was associated with important events, activities, persons, or attained the characteristics which qualify it for National Register listing" (NPS 1997:42). The period of significance begins with the date of the earliest important land use or activity that is reflected by historic characteristics tangible today. The period closes with the date when events having historical importance ended. The period of significance for an archaeological property is "the broad span of time about which the site or district is likely to provide information" (NPS 1997:42). Archaeological properties may have more than one period of significance.

Integrity

The CRHR also requires a resource to possess integrity, which is defined as "the authenticity of a historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association" (OHP 2006:2).

Archaeologists use the term "integrity" to describe the level of preservation or quality of information contained within a district, site, or excavated assemblage. Integrity is relative to the specific significance that the resource conveys. Although it is possible to correlate the seven aspects of integrity with standard archaeological site characteristics, those aspects are often unclear for evaluating the ability of an archaeological resource to convey significance under Criterion 4. The integrity of archaeological resources is judged according to the site's ability to yield scientific and cultural information that can be used to address important research questions (NPS 1997:44–49).

3.4 CALIFORNIA PUBLIC RESOURCES CODE SECTION 5097.5

PRC Section 5097.5 prohibits excavation or removal of any "vertebrate paleontological site … or any other archaeological, paleontological or historical feature, situated on public lands, except with express permission of the public agency having jurisdiction over such lands." Public lands are defined to include lands owned by or under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof. Section 5097.5 states that any unauthorized disturbance or removal of archaeological, historical, or paleontological materials or sites located on public lands is a misdemeanor.

3.5 CALIFORNIA HEALTH AND SAFETY CODE SECTION 7050.5

California Health and Safety Code Section 7050.5 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 whether or not 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. The NAHC will identify a Native American most likely descendant to inspect the site and provide recommendations for the proper treatment of the remains and associated grave goods.

4 PROJECT SETTING

4.1 GEOLOGICAL SETTING

Eleven geomorphic provinces divide California, each defined by unique geologic and geomorphic characteristics. The project is in the western point of the Mojave Desert geomorphic province, an area marked by mountain ranges and hills of varying orientation separated by broad alluvial basins, whereas the eastern portion of the province contains horst and graben terrain that continues east as the Basin and Range province of adjacent states (DeCourten 2010). The San Andreas and Garlock faults, and adjacent mountain ranges, e.g., the Tehachapi Mountains, define the western border of the Mojave Desert province. This province is bordered to the north by the Sierra Nevada and Basin and Range geomorphic provinces, west by the Transverse Ranges province, south by the Colorado Desert province, and to the east by the Colorado River (CGS 2002).

The western Mojave Desert contains sedimentary (lake and river sourced) and volcanic rocks, ranging from Cenozoic to Quaternary deposition (Dibblee 1967; DeCourten 2010). The Mojave block is a tectonic region in the western Mojave Desert defined by the nearby San Andreas and Garlock faults, with several accessory faults trending northwest that were active throughout the Quaternary period (Dibblee 1967).

The geology of the Lancaster area was mapped by Ponti and Burke (1980) and Dibblee and Minch (2008) at a scale of 1:62,500 and by Lancaster (2011) at a scale of 1:24,000. The geologic unit underlying the APE is mapped as Quaternary alluvium (Qa) (Lancaster 2011). Quaternary alluvium consists of unconsolidated and undissected alluvial gravel, sand, and clay of valley areas (Dibblee and Minch 2008; Lancaster 2011). These deposits date to the Holocene epoch (present to 11,700 years ago).

The soil throughout the APE has been mapped as Pond-Oban complex (NRCS 2022). The Pond series consists of deep, moderately well-drained, fine-loamy, mixed soils that occur on nearly level to undulating alluvial fans formed from alluvium from granitic rock (NRCS 2022; USDA 2003). The Oban series consists of moderately deep, moderately well-drained, fine soils that occur on nearly level valley troughs and basins at elevation between 2,300 to 2,500 feet (NRCS 2022; USDA 2015). Like the Pond series, the Oban series formed in alluvium derived from granitic rock sources (USDA 2015).

The APE is within the Western Mojave Basins ecoregion, which includes alluvial fans and plains resulting from the drainage of nearby valleys and mountain ranges. This ecoregion receives little summer rainfall, and the vegetation is dominated by creosote bush and white bursage. Soil temperatures in this region are thermic and soil moisture is aridic (Griffith et al. 2016).

4.2 ENVIRONMENTAL SETTING

The APE is located in the western Antelope Valley. Surrounded by the Tehachapi, Sierra Pelona, and San Gabriel Mountains, the Antelope Valley is the western tip of the Mojave Desert. The APE is located on a relatively flat alluvial plain, overlain in places with aeolian deposits (i.e., sediment transported by wind, such as dunes). Summers are hot, arid, and clear, and winters are cold and partly cloudy. The average annual rainfall is just 7.7 inches.

At an altitude of approximately 2,359 feet above mean sea level, Lancaster is located in C. Hart Merriam's Lower Sonoran Life Zone. This low elevation, hot desert life zone is dominated by plants that can survive the arid environment, including creosote bush, desert shrubs, Joshua trees, and other succulents. Animals found in the Antelope Valley include the pronghorn antelope, which gives the valley its name, jackrabbits, pocket gophers, and various reptiles.

In the Pleistocene and early Holocene, the climate of the Western Mojave was wetter and more hospitable. What is today a desert floor was occupied by rivers, lakes, and swamps. The APE is located nearly adjacent to the hypothesized high shoreline of Lake Thompson at the end of the Pleistocene epoch. At its height in the Pleistocene, Lake Thompson covered approximately 950 square kilometers within the Antelope Valley, and included within its area what are now Rogers Lake and Rosamond Lake. During its maximum extent, Lake Thompson would have inundated the APE (Dibblee and Minch 2008; Orme and Yuretich 2004; Sutton 1988).

Today, the natural surface water in the APE is limited to seasonal creeks, streams, and washes. One important creek, Amargosa Creek, runs northeast–southwest east of the APE. At its closest, the creek is located approximately 0.16 miles east of the APE. Historical General Land Office (GLO) maps indicate that a few springs once peppered the desert floor, but the closest mapped springs are approximately 1.5 miles south of the APE (GLO 1856a, 1856b).

4.3 CULTURAL SETTING

Unless otherwise noted, this section has been adapted from "Cultural Resources Assessment, Baldy Mesa Solar Project, Adelanto, San Bernardino County, California" (BCR Consulting 2019). Both the Baldy Mesa Solar Project and the AVLC-West proposed project are located in the western Mojave Desert, and the two project locations share a similar prehistoric and historic background.

The prehistoric cultural setting of the Mojave Desert has been organized into many chronological frameworks. Mojave chronologies have relied upon temporally diagnostic artifacts, such as projectile points, or upon the presence/absence of other temporal indicators, such as ground stone. Five prehistoric periods are proposed for the western Mojave area.

Paleoindian (12,000 to 10,000 before present [BP]) and Lake Mojave (10,000 to 7,000 BP) Periods. Climatic warming characterizes the transition from the Paleoindian period to the Lake Mojave period. This transition also marked the end of the Pleistocene epoch and ushered in the Holocene. The Paleoindian period has been loosely defined by isolated fluted (such as Clovis) projectile points, dated by their association with similar artifacts discovered in situ in the Great Plains. Some fluted bifaces have been found in association with fossil remains of Rancholabrean mammals near China Lake in the northern Mojave Desert, and dated to ca. 13,300–10,800 BP. The Lake Mojave period has been associated with cultural adaptations to moist conditions, and resource allocation pointing to more lacustrine (lake) environments. Artifacts that characterize this period include stemmed points, flake and core scrapers, choppers, hammerstones, and crescentics. Projectile points associated with the period include the Silver Lake and Lake Mojave styles. Lake Mojave sites commonly occur on shorelines of Pleistocene lakes and streams, where geological surfaces of that epoch have been identified.

Pinto Period (7,000 to 4,000 BP). The Pinto period has been largely characterized by desiccation of the Mojave. As formerly rich lacustrine environments began to disappear, the artifact record reveals more sporadic occupation of the Mojave, indicating occupants' recession into the cooler, moister fringes. Pinto period sites are rare, characterized by surface manifestations that usually lack significant in situ remains. Artifacts from this period include Pinto projectile points and a flake industry similar to the Lake Mojave tool complex, though use of Pinto projectile points as an index artifact for the period has been disputed. Milling stones have also occasionally been associated with sites of this period.

Gypsum Period (4,000 to 1,500 BP). A temporary return to moister conditions during the Gypsum period is postulated to have encouraged technological diversification afforded by the relative abundance of resources. Lacustrine environments reappear and begin to be exploited during this era. Concurrently, a more diverse artifact assemblage reflects intensified reliance on plant resources. The new artifacts include milling stones, mortars, pestles, and a proliferation of Humboldt Concave Base, Gypsum Cave, Elko Eared, and Elko Corner-notched dart points. Other artifacts include leaf-shaped projectile points, rectangular-based knives, drills, large scraper planes, choppers, hammer stones, shaft straighteners, incised stone pendants, and drilled slate tubes. The bow and arrow appears around 2,000 BP, evidenced by the presence of a smaller type of projectile point, the Rose Spring point.

Saratoga Springs Period (1,500 to 800 BP). During the Saratoga Springs period, regional cultural diversifications of Gypsum period developments are evident within the Mojave. Basketmaker III (Anasazi) pottery appears during this period, and has been associated with turquoise mining in the eastern Mojave Desert. Influences from Patayan/Yuman assemblages are apparent in the southern Mojave, including the appearance of buff and brown wares often associated with Cottonwood and Desert Side-notched projectile points. Obsidian becomes more commonly used throughout the Mojave and characteristic artifacts of the period include milling stones, mortars, pestles, ceramics, and ornamental and ritual objects. More structured settlement patterns are evidenced by the presence of large villages, and three types of identifiable archaeological sites (major habitation, temporary camps, and processing stations) emerge. Diversity of resource exploitation continues to expand, indicating a much more generalized, somewhat less mobile subsistence strategy.

Shoshonean Period (800 BP to Contact). The Shoshonean period is the first to benefit from contact-era ethnography, as well as being subject to its inherent biases. Interviews of living informants allowed anthropologists to match artifact assemblages and particular traditions with linguistic groups and plot them geographically. During the Shoshonean period, continued diversification of site assemblages and reduced Anasazi influence both coincide with the expansion of Numic (Uto-Aztecan language family) speakers across the Great Basin, Takic (Uto-Aztecan language family) speakers into southern California, and the Hopi across the southwest. Hunting and gathering continued to diversify, and the diagnostic arrow points include Desert Side-notched and Cottonwood Triangular varieties. Ceramics continue to proliferate, though are more common in the southern Mojave during this period. Trade routes become well established across the Mojave, particularly the Mojave Trail, which transports goods and news across the desert via the Mojave River. Trade in the western Mojave is more closely related to coastal groups.

4.4 ETHNOGRAPHY

The Uto-Aztecan "Serrano" people occupied the western Mojave Desert periphery. The term "Serrano" is generally applied to four groups, each with distinct territories: the Kitanemuk, Tataviam, Vanyume, and Serrano. Only one group, in the San Bernardino Mountains and west-central Mojave Desert, ethnically claims the term Serrano. The exact boundaries of Serrano territory are poorly known, but the Smithsonian's *Handbook of North American Indians* notes, "Most researchers place Serrano groups in the San Bernardino Mountains east of Cajon Pass, at the base and north of these mountains in the desert near Victorville, eastward as far as Twentynine Palms, and south to and in the Yucaipa Valley" (Bean and Smith 1978:570). Their territory continued east onto the desert floor of the Mojave. Like many neighboring tribes, the Serrano and Cahuilla were Takic (Uto-Aztecan language family) speakers. Serrano traded with their neighbors and actively participated in a shell bead exchange economy with the Cahuilla, Luiseño, and Gabrielino. Both the Serrano and Cahuilla utilized the western Mojave region seasonally.

Evidence for longer-term/permanent Serrano settlement in the western Mojave most notably includes the Serrano-named village of Guapiabit in Summit Valley. Access to water determined where the Serrano built their settlements/villages. Most of the villages were located within the Upper Sonoran life zone (scrub oak [*Quercus sp.*] and sagebrush [*Salvia sp.*]) or forest transition zone (Ponderosa pine [*Pinus ponderosa*]). By contrast, the APE is located in the Lower Sonoran life zone, more than 1,000 feet in elevation below the lower limits of the Upper Sonoran life zone. Occasionally, villages were located in the desert, adjacent to permanent water sources such as springs (Bean and Smith 1978).

Structures for families were usually circular domes, constructed of willow frames and tule thatching. Individual family homes were used primarily for sleeping and storage. Families conducted many of their daily routines outside of their house or under a ramada. A ramada consisted of a thatched roof supported by vertical poles in the ground, which provided a shaded work area. Other village structures included a ceremonial house, granaries, and sweathouses. Subsistence strategies focused on hunting and gathering, occasionally supplemented by fishing. Food preparation varied and included a variety of cooking techniques. These ranged from baking in earth ovens to parching. Food processing utilities included scrapers, bowls, baskets, mortars, and metates. A lineage leader, or kika, administered laws and ceremonies from a large ceremonial house centrally located in most villages. The size of lineages is a matter of some dispute, but most probably numbered between 70 and 120 individuals. Serrano people were organized into clans affiliated with one of two exogamous moieties. Clans were led by a hereditary chief who occupied the village "big house" where ceremonies took place and shamans were initiated (Bean and Smith 1978; Benedict 1924; Strong 1929).

4.5 HISTORY

Historic-era California is generally divided into three periods: the Spanish or Mission period (1769 to 1821), the Mexican or Rancho period (1821 to 1848), and the American period (1848 to present).

Spanish Period (1769–1821)

The Spanish period is characterized by exploration and settlement of the area by Europeans. In 1772, Pedro Fages became the first known European explorer to enter the Antelope Valley when he traveled

through the Cajon Pass and into the Mojave Desert to pursue deserting soldiers. Fages most likely followed the Mojave Trail, a Native American trail predating European exploration of the area, which followed the Mojave River from Soda Lake to the San Bernardino Mountains, and then down the Cajon Pass into the coastal region. The earliest known contact of native inhabitants in Serrano territory came in 1776 when Francisco Garces visited Native American villages along the upper Mojave River. Garces later traveled the Mojave Trail again when he visited Mission San Gabriel (Barton, Terry, and Scott 2019:16).

It was the goal of these European colonists to integrate California into the Spanish Empire. This goal envisioned physical and cultural domination of the local Native American groups. Simultaneously, the intruders introduced diseases such as smallpox to which California's Native American population was unaccustomed. Foreign control, which the Native Americans often resisted, over Native American lands resulted in a decline to Native American culture, life, and health.

As the Spanish developed commerce between their outposts in Santa Fe and Los Angeles, they further developed a series of trails following the Mojave River, known collectively as the Old Spanish Trail. The trail was utilized for trading goods from Santa Fe and Mexican horses from Los Angeles. After an attack on Mission San Gabriel in 1810 by local Mojave Native Americans, the Spanish used this new trail to raid the deserts, leading to a significant decrease in the native population in the region (Barton, Terry, and Scott 2019:16).

Mexican Period (1821–1848)

The Mexican period is marked by the inland settlement on large land grants (ranchos) and by the opening of Alta California to American explorers. One such explorer from New York, Jedediah Strong Smith, crossed the Mojave River in 1826, calling it the "Inconstant River" because of its sporadic and partially underground flow. Later, in 1844, General Fremont recorded the Mojave River as the "Mohave River" while in search of the Old Spanish Trail. The route would later be utilized and improved by the Mormon Battalion as they were stationed there between 1847 and 1848 to guard the Cajon Pass during the Mexican-American War. The Mormons used the route to return to Salt Lake City following the war in 1848 (Barton, Terry, and Scott 2019:16-17).

American Period (1848–Present)

The American period is distinguished by the influx of American and European settlers into the area. In 1848, gold was discovered at Sutter's Mill near Coloma on the south fork of the American River, thereby kicking off the California Gold Rush and spurring a mass migration into the state from all over the country.

Lancaster (1876–Present)

In 1876, the Southern Pacific Railroad (SPRR) completed a new track passing through the western Antelope Valley, connecting Los Angeles and Bakersfield. Approximately 3,000 workers, half of them Chinese, labored on the track. Soon thereafter, the SPRR constructed a siding, roundhouse for locomotive repairs, and shacks for railroad workers. The siding and small railroad settlement was named Lancaster (Gurba 2005). This was the future city's first non-indigenous settlement.

In 1883, an artesian well was drilled at Lancaster, meeting the settlement's most important need. That same year, developer Moses Langley Wicks built a lumberyard in Lancaster, the first commercial structure

there. In 1884, Wicks purchased 60 sections (38,400 acres) from the SPRR, marked out lots and streets, and began development of a town (Gurba 2005).

With access to distant markets via a new transcontinental railroad, combined with a climate that provided enough rainfall for dry farming, many homesteaders established farms in the area during the 1880s, cultivating alfalfa, barley, wheat, and tree fruits. The profitability of farming decreased substantially, however, between 1894 and 1904 due to a severe drought that decimated the region's economy and forced many farmers to abandon their homesteads (Los Angeles County Library 2022).

The decade-long drought also hurt cattle ranches in the Lancaster area. Cattles ranches had been established in the Antelope Valley as early as the 1840s. With the discovery of gold in California and the rising demand for beef, cattle ranching became increasingly important to the local economy. However, during the second decade of the twentieth century, land disputes between ranchers and farmers led to the fencing of land by farmers and alfalfa growers to protect their crops from damage by livestock. This restriction, combined with a population increase in the Antelope Valley, contributed to a substantial decline in the local cattle industry during the 1920s (Los Angeles County Library 2022).

For farmers, however, the first half of the twentieth century was a productive period overall. With advancements in irrigation methods and electrical water pumps, farmers could access underground water with relative ease. The new, modern pumps provided a more reliable source of water than the free-flowing artesian wells and contributed to a resurgence in local farming beginning in 1905. In addition to reestablishing crops and orchards that had previously thrived, farmers were able to utilize these modern irrigation methods to cultivate crops, particularly alfalfa, on a large, commercial scale. By 1920, alfalfa had emerged as the Antelope Valley's major crop, with up to 100,000 tons produced annually by the early 1930s. Other important agricultural products included pears, grapes, and poultry. After World War II, the economy of the Antelope Valley shifted largely from agriculture to the defense and aerospace industries. The area around the subject property, however, still retains its rural, agricultural character (Thompson 1929; Gardiner 2002).

5 CULTURAL RESOURCES IDENTIFICATION EFFORTS

This section includes the methods and results of the SCCIC records search, literature review, interested parties consultation, archaeological field survey, sensitivity analysis, and NRHP and CRHR evaluations.

5.1 SCCIC RECORDS SEARCH

On November 9, 2022, Michael Baker International archaeologist Marc Beherec, PhD, RPA, completed a records search at the SCCIC. The SCCIC, of the California Historical Resources Information System, California State University, Fullerton, an affiliate of the California Office of Historic Preservation (OHP), is the official state repository of cultural resource records and reports for Los Angeles County. The records search included the APE and a half-mile buffer. As part of the records search, the following federal and state of California inventories were reviewed:

- NRHP (NPS 2020).
- Archaeological Resources Directory for Los Angeles County (OHP 2022a). The directory includes the OHP determinations of eligibility for archaeological resources in Los Angeles County.
- Built Environment Resource Directory for Los Angeles County (OHP 2022b). The directory includes resources reviewed for eligibility for the NRHP and the California Historical Landmarks programs through federal and state environmental compliance laws, and resources nominated under federal and state registration programs, including the NRHP, CRHR, California Historical Landmarks, and California Points of Historical Interest.
- California Historical Resources (OHP 2022c).

Results

Previous Studies

A total of nine previous studies have been conducted within the APE's half-mile buffer (**Table**). Of those nine, one overlaps the APE. One hundred percent of the APE has been subject to a previous study. However, the study consisted of only historical research and field reconnaissance, and the APE has not been previously subjected to intensive pedestrian survey.

TABLE 1. PREVIOUS STUDIES WITHIN APE AND SEARCH AREA

Report Number	Author	Title/Description	Date	Within APE?
LA-02054	Love, Bruce and William H. De Witt	Cultural Resources Evaluation for Lancaster EIR Group 13 Lancaster, Los Angeles County	1990	No
LA-02140	Alexander, Molly B.	An Archaeological Investigation of a 448+/- Acre" Parcel in the City of Lancaster, Los Angeles County	1989	No
LA-05322	Norwood, Richard H.	Phase I Cultural Resource Investigation for a 60 Acre Property 20th Street West and West Avenue G, Lancaster, Los Angeles County, California	2000	No
LA-07963	Hudlow, Scott M.	A Phase I Cultural Resource Survey for APN 3118-006-024, Property at Avenue H and 20th Street West, City of Lancaster, California	2006	No

TABLE 1, CONTINUED

Report Number	Author	Title/Description	Date	Within APE?
LA-07991	Tang, Bai "Tom", Michael Hogan, and Josh Smallwood	Cultural Resources Technical Report City of Lancaster General Plan Update	2006	Yes
LA-08180	Chandler, Evelyn N., Cary D. Cotterman, Roger D. Mason, and Valerie M. Van Hemelryck	Archaeological Survey for the Proposed Installation of the Trunk "f" Sewer and Rosamond Outfall Relief Trunk Sewer Located Between Lancaster and Rosamond, Los Angeles County, California	2001	No
LA-11455	Orfila, Rebecca	Archaeological Survey for the Southern California Edison Company: Thirty-nine (39) deteriorated power poles near Lancaster, Los Angeles County, California	2011	No
LA-12378	Bonner, Wayne	Cultural Resources Records Search and Site Visit Results for AT&T Mobility, LLC Candidate IM0016, 2551 West Avenue H, Lancaster, Los Angeles County, California	2013	No
LA-13163	Brunzell, David	Cultural Resources Assessment of the Avenue H Project, Lancaster, Los Angeles County, California (BCR Consulting Project No. TRF1405)	2014	No

Documented Resources

A total of three resources are located within the APE's half-mile buffer (**Table**). Of these three, one is located within the APE. All three are historic-period resources. The resource located within the APE has been recommended ineligible for inclusion in the CRHR or NRHP. The other two resources have not been evaluated for inclusion on the CRHR or NRHP. The resources are described below.

TABLE 2. RESOURCES PREVIOUSLY RECORDED IN THE APE AND SEARCH AREA

Primary Number	Permanent Trinomial	Description	Age	CRHR/NRHP Evaluation	Distance from APE
19-003044	CA-LAN-3044	Historic refuse deposit consisting of cans, glass bottle fragments, domestic ceramics, automotive parts and oil cans, and miscellaneous hardware	1920s-1950s	Recommended ineligible	Within
19-004751	CA-LAN-4751H	Historic refuse deposit consisting of nine cans	1940s	Unevaluated	0.4 miles southwest
19-101396	None	Fence line with five wooden posts and barbed wire	Historic period	Unevaluated	0.5 miles south

P-19-003044 / CA-LAN-3044

This resource consists of a historic refuse deposit consisting of four artifact concentrations and a surrounding sparse scatter of artifacts recorded in October 2001 (Chandler et al. 2001; Cotterman and Van Hemelryck 2001). The assemblage primarily consists of food cans, beverage bottle fragments, and condiment jar fragments, but also includes a smaller number of domestic ceramics, automotive parts and oil cans, and miscellaneous hardware. Diagnostic artifacts were observed ranging from the late 1920s to the 1950s. This site may represent a dumping episode associated with a historic-period homestead located 0.2 miles north. This resource was evaluated and recommended ineligible for inclusion in the NRHP and CRHR (Chandler et al. 2001; Cotterman and Van Hemelryck 2001). This resource is located within the western portion of the APE.

5.2 LITERATURE REVIEW

Michael Baker International reviewed publications, maps, and websites for archaeological, ethnographic, historical, and environmental information about the APE and its vicinity. Literature reviewed here includes:

- *Township 7 North Range 12 West, San Bernardino Meridian Plat map* (GLO 1856a)
- *Township 8 North Range 12 West, San Bernardino Meridian Plat map* (GLO 1856b)
- *73. Part of Southern California* (Wheeler 1883)
- "Perris' Miners' Map of Southern California" (Perris 1896)
- *Elizabeth Lake, Calif,*. 1:96,000 scale topographic quadrangle (USGS 1915a)
- *Elizabeth Lake, Calif.*, 1:125,000 scale topographic quadrangle (USGS 1915b)
- *Elizabeth Lake, Calif.*, 1:250,000 scale topographic quadrangle (USGS 1917)
- *Oban, Calif.*, 1:24,000 scale topographic quadrangle (USGS 1930)
- *Oban, Calif.*, 1:24,000 scale topographic quadrangle (USGS 1933)
- *Los Angeles, Calif.*, 1:250,000 scale topographic quadrangle (USGS 1949)
- *Los Angeles, Calif.*, 1:250,000 scale topographic quadrangle (USGS 1955)
- *Lancaster West, Calif.*, 1:24,000 scale topographic quadrangle (USGS 1958)
- *Los Angeles, Calif.*, 1:250,000 scale topographic quadrangle (USGS 1966)
- *Los Angeles, Calif.*, 1:250,000 scale topographic quadrangle (USGS 1975)
- *Lancaster West, Calif.*, 1:24,000 scale topographic quadrangle (USGS 2012)
- *A Guide to Historic Places in Los Angeles County* (Grenier, Nunis, and Poole 1978)
- *Historic Spots in California* (Hoover et al. 2002)
- "Aboriginal Society in Southern California" (Strong 1929)
- "A Brief Sketch of Serrano Culture" (Benedict 1924)
- "Serrano" (Bean and Smith 1978)
- "Handbook of the Indians of California" (Kroeber 1925)
- *An Introduction to the Archaeology of the Western Mojave Desert* (Sutton 1988)
- "The Desert Serrano of the Mojave River" (Sutton and Earle 2017)

Results

The ethnogeography of the western Antelope Valley is little documented. The project site does not appear in comprehensive maps of Native American sites in Southern California such as Kroeber's (1925) or even in maps focused on the Serrano and Desert Serrano (Benedict 1924:367; Strong 1929:7; Sutton and Earle 2017:22). The consulted sources identified no hamlets, villages, or named locations within or near the APE.

Middle nineteenth century GLO maps depict a completely unsettled area, devoid not only of buildings but also of roads and trails. No human-made features are visible in these maps (GLO 1856a, 1856b). By the late nineteenth century, Lancaster had been founded along the SPRR line south of the APE. The APE itself remained undeveloped (Perris 1896; Wheeler 1883).

Development of the vicinity surrounding the APE began in earnest in the early twentieth century. The APE is exhibited in the 1915 and 1917 USGS topographic maps. These maps show the project vicinity as a very sparsely settled area. Roads appear to follow section lines. Houses are scattered across the landscape, and the APE is undeveloped (USGS 1915a, 1915b, 1917).

The APE and project vicinity remained minimally developed into the early 1930s. In a 1930 USGS map, 20th Street West appears as a dirt road, and an east–west road extends along the section line north of the APE and is labeled "Welds Road"; in 1933, the same road is labeled "West Avenue F." A well is developed in Section 28, north of the APE, by 1930, and a house stands there by 1933 (USGS 1930, 1933). By 1948, aerial imagery indicates that farms or homesteads existed both north and east of the APE, but the APE remains undeveloped to this day (USGS 1958; NETR 2022).

5.3 INTERESTED PARTIES CONSULTATION

Native American Coordination

On November 10, 2022, Michael Baker International sent an email describing the proposed project to the NAHC in Sacramento asking the commission to review its Sacred Lands File for any Native American cultural resources that might be impacted by the proposed project. The NAHC responded with a letter sent via email dated December 8, 2022. The letter stated, "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 negative." The response and contact list is located in **Appendix A** for the USACE's use in consultation.

Separately, the County of Los Angeles is conducting Assembly Bill 52 consultation with those tribes who have informed the County in writing of their interest in consulting on projects in the County's jurisdiction. No Native American contact was completed by Michael Baker International. The results of the consultation will be documented separately.

Historical Society Consultation

On December 22, 2022, Michael Baker International sent a letter describing the project, with maps depicting the APE, to the West Antelope Valley Historical Society based in Lancaster. The letter requested any information about, or concerns regarding, historical resources that may be impacted by the proposed project (**Appendix B**). No response to the consultation letter has been received to date.

5.4 ARCHAEOLOGICAL SURVEY

Survey Methods

Michael Baker International archaeologists Marcel Young, BA, and Alexandra Navarro, BA, conducted an intensive pedestrian cultural resources survey of the APE between December 12 and December 16, 2022. All portions of the APE were accessible and surveyed systematically by walking south-north transects spaced at 15-meter intervals, inspecting any unusual landforms, contours, soil changes, and potential features or cultural site markers. When resources were encountered, transects were reduced to 2-meter intervals in order to identify all features and cultural constituents and properly map the site boundaries. Documentation included photographs and field notes, which were incorporated into the California Department of Parks and Recreation (DPR) 523 series forms (**Appendix D**).

Survey Results

During the pedestrian survey, the known site P-19-003044 (CA-LAN-3044) was revisited, and five historic-in-age cultural resources were identified within the APE. All six resources consist of refuse deposits dominated by metal and glass dating to the twentieth century and appear to be associated with roadside dumping. No additional historic or prehistoric archaeological resources were encountered during the survey. The resources are described below, and the DPR 523 series for each resource are included in **Appendix D**.

P-19-003044 / CA-LAN-3044

This resource consists of a historic refuse deposit consisting of four artifact concentrations and a surrounding sparse scatter of artifacts in an area measuring approximately 656 feet (north–south) by 197 feet (east–west). The assemblage primarily consists of food cans, beverage bottle fragments, and condiment jar fragments, but also includes a smaller number of domestic ceramics, automotive parts and oil cans, and miscellaneous hardware.

AVLC-001H

This historic site is a refuse deposit consisting of a surface deposit of metal cans. The cans are concentrated within a single locus representing a single dumping event, with a small number of cans dispersed around this locus. The various crushed cans and other modern refuse are moderately dispersed. The site is in poor condition, with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located on sandy terrain at the west edge of the Mojave Desert. The site boundary is approximately 61.5 feet (north–south) by 78 feet (east–west). The locus's approximate center measures approximately 20.5 feet (north–south) by 15.7 feet (east–west).

Artifacts within the locus include 16 vent hole cans measuring 3 inches by 4-1/4 inches; one rectangular hole-in-top can lid measuring 3-1/4 inches by 2-1/2 inches by 11/16-inch; one rectangular meat tin; and six pails measuring 6 inches in diameter.

Ten cans were observed outside the locus, including three knife-opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall; three vent-hole sanitary cans measuring 2-1/2 inches in diameter

by 2-3/8 inches tall; and four church key opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall.

The cans, which include vent hole cans first made in 1900 and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

AVLC-002H

This historic site is a surface refuse deposit consisting of metal cans and fragmented glass. Scattered artifacts surround a locus which represents a single dumping event. The various crushed and fragmentary cans and glass fragments are moderately dispersed around the locus. The site is in poor condition, with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located on sandy terrain. The site boundary is approximately 46 feet (north–south) by 58 feet (east–west).

The refuse scatter likely represents a single dumping event. Artifacts within the concentration include five church key opened cans measuring 2-1/2 inches in diameter and 4-15/16 inches tall; three clear glass bottle necks with intact plastic screw caps; four clear glass bottle necks with metal screw caps; two clear glass bottle bases embossed with “Santa Fe Vintage C”, circled “LM”, “2”, and “Refilling Prohibited”; and one brown glass ovoid base embossed “0-9”, “83” and an oblique overlapping double C, “55”, and “M820.”

Artifacts scattered around the concentration include five church key opened cans measuring 2-1/2 inches in diameter by 4-15/16 inches tall, and two crushed bimetal sanitary cans.

AVLC-003H

This historic site consists of a surface refuse scatter of metal tin cans, glass, and miscellaneous metal. The artifacts are concentrated in two loci, each of which is moderately dense and represents a single dumping event. The cans, crushed cans, glass, metal, and other modern refuse are moderately dispersed within the loci, and other artifacts are scattered around the loci. The site is in poor condition with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The site is located upon sandy terrain. The site boundary is approximately 132 feet (north–south) by 192 feet (east–west).

Locus 1 measures approximately 52.2 feet (north–south) by 53.8 feet (east–west). Artifacts within Locus 1 include two sanitary cans measuring 2-8/16 inches in diameter by 6 inches tall; two tuna cans measuring 3-3/8 inches in diameter; seven sanitary cans measuring 2-1/2 inches in diameter by 4 inches tall; 13 church key opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall; four milk cans with vent hole tops measuring 2-1/2 inches in diameter by 2-3/8 inches tall; 17 sanitary cans measuring 3 inches in diameter by 4-3/8 inches tall; and one clear glass bottle base embossed with “Santa Fe Vintage 134 LM 3 Refilling prohibited” and measuring 2-3/8 inches in diameter.

Locus 2 measures 13.1 feet (north–south) by 318.2 feet (east–west). Artifacts within Locus 2 include nine sanitary cans measuring 3 inches in diameter by 4-3/8 inches tall; miscellaneous glass fragments including plate, clear, and blue specimens; miscellaneous metal fragments; and two oblong metal oil cans with metal screw tops.

Artifacts were sparsely scattered around the two dump loci, including one metal can with a hole-in-top opening and a U-shaped metal handle, perforated with holes in its body, measuring 4-5/16 inches in

diameter and 4-15/16 inches tall, and one sanitary can measuring 3 inches in diameter and 3-7/8 inches tall.

The cans, which include vent hole cans first made in 1900, quart oil cans first sold in 1933, and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

AVLC-004H

This historic archaeological site is a surface refuse scatter consisting of metal containers, glass, and various metal fragments and hardware. The site is in very poor condition, with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located upon sandy terrain. The site boundary measures approximately 64 feet (north–south) by 75 feet (east–west).

Fifty-six metal, glass, and ceramic artifacts were documented at the site. Historic period and modern glass shards are the predominant artifact type that make up the site. The glass shards consist of milk, aqua, amethyst, clear, and brown colors. The potentially diagnostic glass artifacts identified include two dark brown bottle bases; one amethyst neck with brandy finish; one aqua neck with brandy finish; and one 3-inch-diameter clear/pink hue bottle base embossed “Best Foods Registered”.

The metal artifacts include one metal hose line; one friction can lid; three pails; three church key opened sanitary cans measuring 2-11/16 inches in diameter by 4-3/4 inches tall; one cone top short neck container; five vent hole milk cans measuring 3 inches in diameter and 4-1/4 inches tall; five vent hole milk cans measuring 2-1/2 inches in diameter and 2-7/16 inches tall; 30 crown bottle caps; one tobacco tin with hinged top; one wrought iron cut bolt measuring 2-7/16 inches long; one wrought iron cut nail measuring 3-1/2 inches long; and one cylindrical container with lid measuring 1-7/8 inches in diameter and 2-1/4 inches tall.

One ceramic china bowl fragment with rim embellishments and a maker’s mark “Edwin M Knowles China Co. 144” was identified within the trash scatter. Edwin M. Knowles manufactured ceramics between 1900 and 1963 (Gonzalez 2023).

The artifacts, which include the ceramic fragment, church key opened cans first produced in 1935 and a cone top can first sold in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

AVLC-005H

This historic site is a surface refuse scatter consisting of metal cans and glass fragments. The site is in poor condition, with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located on sandy terrain. The site boundary is approximately 33 feet (north–south) by 31 feet (east–west). Twenty-five diagnostic artifacts which characterize this resource were documented.

There are glass shards and glass vessel fragments within the site, including two bottle bases embossed with “3” / “O” inside a square; two clear bottle necks with screw-top finishes; one clear mason jar fragment; one clear bottle base measuring 2-7/16 inches in diameter with stippling and a “Dixie” maker’s

mark; one opaque clear single thread screw-top finish; and one clear bottle base with a 2-7/16 inch diameter and embossed with a Hazel Atlas maker's mark and the words "Italian Swiss Refilling Prohibited COLONY".

The metal artifacts include one aerosol can measuring 2-1/4 inches in diameter and 5-9/16 inches tall; twelve solder-dot vent hole cans measuring 3 inches in diameter and 3-15/16 inches tall; and one mason jar lid.

The ceramic artifacts include three fragments from the same white and blue dinner plate showing a blue swallow and pink flowers on its top and the partial maker's mark "[break]CHFIE[break]" on its base. The broken word is probably "Lichfield," one of the districts in Great Britain's Potteries region, where large quantities of china and earthenware were and are produced for the export market.

The Hazel Atlas maker's mark observed on one bottle base was used between 1920 and 1964 (Toulouse 1971:239), and the Italian Swiss Colony was a popular vintner established in the nineteenth century and became a national brand after World War II (Keppel 1987). The Owens Bottle Company used the "O" in a square maker's mark between 1911 and 1929 (Toulouse 1971:393). The cans include vent hole cans first made in 1900 and an aerosol can first marketed in 1945. All the artifacts are consistent with having been deposited in the middle twentieth century (Rock 1993).

5.5 ARCHAEOLOGICAL SENSITIVITY ANALYSIS

The archaeological sensitivity for potential unknown prehistoric archaeological sites within the APE is moderate. No Native American place names are recorded within or near the APE, but this is true of the entire Lancaster area and is largely the result of a lack of contact between the local Desert Serrano population and European and European-American colonizers rather than a lack of ethnohistoric occupation of the area. Water has always been the most important resource determining the placement and intensity of settlement in the Antelope Valley. Late Pleistocene and Early Holocene inhabitants of the closed valley operated on the shores of vast inland lakes, including Lake Thompson. The APE was likely inundated when Lake Thompson was at its height, but as the lake receded the land within the APE would have provided access to the lake and its abundant tule swamps. Even as the Antelope Valley turned to desert, there still would have been wetter periods when the area was more suitable than today for human use if not occupation. Sporadic or seasonal use of the APE likely continued after the desertification of the valley. Today, the APE is devoid of permanent sources of water, but before groundwater exploitation began in the late nineteenth century, the water table would have been higher. Springs dot the nearby valley floor. Amargosa Creek, located less than 0.25 miles to the east, was an important water source during the Late Prehistoric period and remains so, if somewhat less reliable. The APE consists of Quaternary alluvium, alluvial fan deposits, and younger playa deposits, all of which were coeval with the Antelope Valley's prehistoric human occupation and which may conceal buried archaeological deposits. The APE would have been an important resource procurement area, and significant archaeological sites may lie buried within the APE.

The sensitivity for potential undocumented historic period buildings, structures, and historic period archaeological sites is low. Topographic maps, aerial photographs, and the historic setting narrated in Chapter 4 indicate that, although historic period homesteads were established nearby, the APE has never

been developed except for the construction of roads in the twentieth century. The six historic period archaeological sites all lie near these roads and appear to be associated with roadside dumping, which continues to this day. Although Quaternary deposits overlie the APE, the conditions observed during the field survey indicate that there was likely little deposition during the relatively brief (ca. 250 year) historic period. During the historic period, the APE may have been used for hunting, prospecting, and similar activities in addition to dumping, but the potential for significant buried historic period resources appears low. No significant historic period archaeological sites or built features are anticipated within the APE.

6 RESOURCE EVALUATIONS

Six resources located within the APE required evaluation for listing in the CRHR and NRHP. Below is a summary of each evaluation. Further documentation for each resource is located in the DPR 523 forms (see **Appendix D**).

6.1 P-19-003044/CA-LAN-3044

Resource P-19-003044/CA-LAN-3044 was first recorded in 2001 as a historic refuse deposit. When it was initially recorded, it was recommended ineligible for inclusion in the NRHP and CRHR under any criteria (Chandler et al. 2001; Cotterman and Van Hemelryck 2001). In the more than two decades since its initial recordation, human activity has considerably impacted the site, including deliberate destruction of glass artifacts and continued dumping, reducing the integrity of the resource since its original documentation.

Criterion A/1: Archival research indicates that this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: The existing documentation, including the site's initial documentation (Chandler et al. 2001; Cotterman and Van Hemelryck 2001) and this report, exhausts the site's data potential. Artifacts appear to be limited to the surface, and available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

Michael Baker International concurs with the initial evaluation. Resource P-19-003044 is recommended ineligible for inclusion in the CRHR or the NRHP under any criteria.

6.2 AVLC-001H

Resource AVLC-001H is a refuse deposit consisting of metal cans. The cans are concentrated within a single locus representing a single dumping event, with a small number of cans dispersed around this locus. The cans, which include vent hole cans first made in 1900 and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

Criterion A/1: Archival research indicates that this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: This documentation exhausts the site's data potential. Artifacts appear to be limited to the surface, and available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

In conclusion, AVLC-001H is recommended not eligible for listing in the NRHP and is not a historic property as defined by 36 CFR 800.16(l)(1). Furthermore, AVLC-001H is recommended not eligible for listing in the CRHR and is not a historical resource as defined by CEQA Section15064.5(a) or a unique archaeological resource as defined by PRC Section 21083.2(g).

6.3 AVLC-002H

Resource AVLC-002H is a refuse deposit consisting of metal cans and fragmented glass. Scattered artifacts surround a locus which represents a single dumping event. The various crushed and fragmentary cans and glass fragments are moderately dispersed around the locus. The cans, which include church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

Criterion A/1: Archival research indicates this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: The data potential of the refuse scatter is exhausted by this documentation. Artifacts appear to be limited to the surface. Available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

In conclusion, AVLC-002H is recommended not eligible for listing in the NRHP and is not a historic property as defined by 36 CFR 800.16(l)(1). Furthermore, AVLC-002H is recommended not eligible for listing in the CRHR and is not a historical resource as defined by CEQA Section15064.5(a) or a unique archaeological resource as defined by PRC Section 21083.2(g).

6.4 AVLC-003H

Resource AVLC-003H is a refuse deposit consisting of metal tin cans, fragmented glass, and miscellaneous unidentified metal. The artifacts are concentrated in two loci, each of which represents a single dumping event. The cans, crushed cans, glass, metal, and other modern refuse are moderately dispersed within the loci, and other artifacts are scattered around the loci. The cans, which include vent hole cans first made in 1900, quart oil cans first sold in 1933, and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

Criterion A/1: Archival research indicates that this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: The data potential of the refuse scatter is exhausted by this documentation. Artifacts appear to be limited to the surface. Available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

In conclusion, AVLC-003H is recommended not eligible for listing in the NRHP and is not a historic property as defined by 36 CFR 800.16(l)(1). Furthermore, AVLC-003H is recommended not eligible for listing in the

CRHR and is not a historical resource as defined by CEQA Section15064.5(a) or a unique archaeological resource as defined by PRC Section 21083.2(g).

6.5 AVLC-004H

Resource AVLC-004H is a refuse scatter consisting of metal containers, glass, and various metal fragments and hardware. The artifacts, which include a ceramic fragment, church key opened cans first produced in 1935 and a cone top can first sold in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

Criterion A/1: Archival research indicates that this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: The data potential of the refuse scatter is exhausted by this documentation. Artifacts appear to be limited to the surface. Available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

In conclusion, AVLC-004H is recommended not eligible for listing in the NRHP and is not a historic property as defined by 36 CFR 800.16(l)(1). Furthermore, AVLC-004H is recommended not eligible for listing in the CRHR and is not a historical resource as defined by CEQA Section15064.5(a) or a unique archaeological resource as defined by PRC Section 21083.2(g).

6.6 AVLC-005H

Resource AVLC-005H is a refuse scatter consisting of metal cans and glass fragments. The artifacts, which include a glass bottle with a Hazel Atlas maker's mark in use between 1920 and 1964, a glass bottle with an Owens Bottle Company maker's mark in use between 1911 and 1929, and an aerosol can first marked in 1945, are all consistent with having been deposited in the middle twentieth century (Rock 1993; Tolouse 1971).

Criterion A/1: Archival research indicates that this resource is located on a parcel that has never been developed. The refuse appears to be domestic trash associated with daily living in the middle twentieth century, and the dumping is likely associated with nearby homesteads. Research has not revealed any

significant events in national, state, regional, or local history associated with the site. The site is recommended as not eligible for listing in the NRHP/CRHR under Criterion A/1.

Criterion B/2: Because this refuse was dumped on an undeveloped parcel and lacks any identifying artifacts, it cannot be directly tied to a specific individual, family, or group. Moreover, the background research failed to identify any persons who are particularly notable or important to national, state, or local history who are associated with the homesteads in the general vicinity. Therefore, the site is recommended as ineligible for listing in the NRHP/CRHR under Criterion B/2.

Criterion C/3: The refuse scatter does not embody the distinctive characteristics of a type, period, region, or method of construction, nor does it represent the work of a master or possess high artistic values. Thus, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion C/3.

Criterion D/4: The data potential of the refuse scatter is exhausted by this documentation. Artifacts appear to be limited to the surface. Available information does not indicate any further potential to yield information important to the prehistory or history of the community, state, or nation; therefore, the resource is recommended as ineligible for listing in the NRHP/CRHR under Criterion D/4.

In conclusion, AVLC-005H is recommended not eligible for listing in the NRHP and is not a historic property as defined by 36 CFR 800.16(l)(1). Furthermore, AVLC-005H is recommended not eligible for listing in the CRHR and is not a historical resource as defined by CEQA Section15064.5(a) or a unique archaeological resource as defined by PRC Section 21083.2(g).

7 SUMMARY OF FINDINGS

The SCCIC records search, literature review, field survey, and interested parties consultation identified six historic-period archaeological sites (**Table**). A map of the documented archaeological sites is included in confidential **Appendix C**. All six resources were evaluated and recommended ineligible for inclusion in both the NRHP and CRHR. No historic properties or historical resources were identified within the APE; however, buried site sensitivity is moderate due to the Quaternary date of the APE's sediments and the proximity of ancient Lake Thompson, Amargosa Creek, and other water sources. A finding of no historic properties affected with conditions under Section 106 and a finding of less than significant impact with mitigation incorporated is appropriate for the proposed project.

TABLE 3. ARCHAEOLOGICAL RESOURCES WITHIN THE APE

Primary Number	Permanent Trinomial	Description	Evaluation Status
P-19-003044	CA-LAN-3044	Refuse deposit	Recommended not eligible
Pending	Pending	Refuse deposit AVLC-001H	Recommended not eligible
Pending	Pending	Refuse deposit AVLC-002H	Recommended not eligible
Pending	Pending	Refuse deposit AVLC-003H	Recommended not eligible
Pending	Pending	Refuse deposit AVLC-004H	Recommended not eligible
Pending	Pending	Refuse deposit AVLC-005H	Recommended not eligible

8 RECOMMENDATIONS

No historic properties or historical resources were identified within the APE. However, the project has the potential to impact unknown, buried cultural resources. Impacts to cultural resources may be avoided or reduced to a less than significant level by implementing the following mitigation measures:

CUL-1 Archaeological Resources Monitoring and Discovery Plan

Prior to the commencement of ground-disturbing activities, the project proponent shall retain a qualified professional archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology (48 Federal Register 44738). The qualified professional archaeologist shall prepare an archaeological resources monitoring and discovery plan (ARMDP). The ARMDP shall clearly specify the steps to be taken to mitigate impacts to archaeological resources. The ARMDP shall specify monitoring methods, personnel, and procedures to be followed in the event of a discovery. The monitoring plan shall at minimum include an introduction; project description; statement of archaeological sensitivity and rationale for the monitoring program; archaeological context and research design; statement of methods and identification of what activities require monitoring; description of monitoring procedures; and protocol to be followed in the event of a find. Criteria shall be outlined, and triggers identified when further consultation is required for the evaluation and treatment of a find. Key staff, including Native American representatives and other consulting parties, shall be identified, and the process of notification and consultation shall be specified in the ARMDP. A curation plan shall also be outlined in the ARMDP.

CUL-2: Archaeological Resources Monitoring

Archaeological monitoring for all ground-disturbing activities shall be conducted by a qualified archaeological monitor who is working under the guidance of the qualified professional archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology (48 Federal Register 44738). Ground-disturbing activities include, but are not limited to, geotechnical boring, boring, trenching, grading, excavating, and the demolition of building foundations, as defined in the ARMDP developed in compliance with Mitigation Measure CUL-1. The archaeological monitor shall observe ground-disturbing activities in all areas with potential to contain significant archaeological deposits. If discoveries are made during ground-disturbing activities, additional work may be required in accordance with the terms specified in the ARMDP in compliance with Mitigation Measures CUL-3 and CUL-4.

CUL-3: Evaluation of Unanticipated Finds; Phase II Testing

In the event an unanticipated archaeological resource is unearthed during excavation activities associated with construction of any individual development project, work shall stop immediately within 50 feet of the find and the discovery shall be evaluated by the qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for Archaeology (48 Federal Register 44738), pursuant to the procedures set forth at CEQA Guidelines Section 15064.5 and 36 CFR Part 60.4. Depending on the nature of the find, the determination of significance may require additional excavation, potentially including the preparation and execution of a Phase II archaeological testing plan. As the lead agencies, USACE and the County shall make a determination of significance on the basis of the

recommendations of the qualified archaeologist and submit this determination of significance to the State Historic Preservation Officer for review and comment. The results of testing shall be presented in the final report in accordance with CUL-6 and communicated to the SCCIC.

If the resource is determined not to be significant, then resource-specific work is complete and construction may proceed. If the resource is determined to be significant and avoidance is not feasible, then a resource-specific archaeological resources treatment plan shall be prepared and executed prior to recommencing ground-disturbing activities that may impact the resource in accordance with Mitigation Measure CUL-4.

CUL-4: Archaeological Resources Treatment Plan and Phase III Data Recovery

If, as a result of the evaluation required by Mitigation Measure CUL-3, a significant resource is identified within the project site, then prior to the beginning of the earth-moving construction activities within the boundaries of the resource, an archaeological resources treatment plan shall be developed that will govern the treatment of the resource. Avoidance and preservation-in-place are the preferred treatment for archaeological resources, and the treatment plan will detail plans for avoidance, if possible, such as restricting work to disturbed soil or limiting the depth of excavations to avoid archaeological deposits.

If disturbance to resources cannot be avoided, a Phase III (data recovery) phase of investigation will be required, pursuant to CEQA Guidelines Section 15064.5 and in accordance with 36 CFR Section 800.6 (Resolution of adverse effects) and Section 800.13 (Post-review discoveries). The Phase III study shall generally consist of a limited scale program of archaeological excavation, radiocarbon dating of organic materials (e.g., shell midden and faunal remains), laboratory analysis, and report writing designed to assess the importance of the resource in question. Any resources recovered shall be properly curated, as appropriate. The Phase III data recovery plan shall be prepared in consultation with the State Historic Preservation Officer.

Ground-disturbing construction activities may commence when excavations are completed in accordance with the Phase III plan and to the satisfaction of USACE and the County. However, the Phase III work shall not be considered complete until excavations and associated analyses are completed and a final report is prepared in accordance with Mitigation Measure CUL-6. The report shall be completed and presented to the County and USACE for comment within 18 months of the completion of Phase III excavations.

CUL-5: Treatment of Unanticipated Finds of Human Remains

If human skeletal remains are found during earth-moving activities, work shall be suspended and the Los Angeles County Coroner's Office shall be notified. Standard guidelines set by California law provide for the treatment of skeletal material of Native American origin (California Public Resources Code, Sections 5097.98 et seq.; Health and Safety Code, Section 7050.5). If the remains are found to be archaeological, then after the coroner releases the site, the qualified professional archaeologist, in consultation with the most likely descendant, shall prepare an archaeological treatment plan in accordance with Mitigation

Measure CUL-4 that also incorporates the guidance in "A Professional Guide for the Preservation and Protection of Native American Remains and Associated Grave Goods," published by the California Native American Heritage Commission.

CUL-6: Reporting

Mitigation will be considered complete when documentation of findings is completed to a level satisfactory to USACE and the County and filed with the SCCIC of the California Historical Resources Information System. Specific reporting requirements shall be detailed in the ARMDP.

If the results of monitoring are negative, the report will take the form of a memorandum and be submitted to USACE and the County for comment within eight weeks of the completion of project fieldwork and communicated to the SCCIC when completed to the satisfaction of USACE and the County.

If the results of monitoring are positive, the report will be prepared in accordance with the California Office of Historic Preservation's "Archaeological Resource Management Reports (ARMR): Recommended Contents and Format." The report shall include a management summary; undertaking information; appropriate maps of both the project area and impacted resources; an environmental setting; prehistoric, ethnographic, and historic contexts; research design; methods; a thorough report of findings; a discussion of the data obtained and the resource's significance in reference to the historic, ethnographic, and prehistoric contexts; a record of the final disposition of excavated artifacts and any intact archaeological deposits; management considerations and recommendations for future work that may impact the resource; and references. Other report sections may also be required as determined by the County and USACE with the recommendations of the qualified archaeologist. The report shall be submitted to the County and USACE for concurrent review and comment within 18 months of the completion of project fieldwork, and shall be communicated to the SCCIC when completed to the satisfaction of the lead agencies.

Appropriate DPR 523 series forms shall also be prepared for each find and submitted to the SCCIC. Minimal documentation of previously unknown isolated finds will consist of a sufficient description of the find to prepare a DPR 523a Primary Form (including photographs) and appropriate maps. Minimum documentation of previously unknown archaeological sites will consist of a sufficient description of the find to prepare a DPR 523a Primary Form (including photographs); a DPR 523c Archaeological Site Record; a DPR 523j Location Map; and a DPR 523k Sketch Map. Minimum documentation of known resources will consist of a DPR 523L Update form. Additional forms may also be required to appropriately document resources at the discretion of the qualified archaeologist.

CUL-7: Curation and Final Disposition of Archaeological Materials

Archaeological materials collected during project excavations shall be processed and curated according to current professional repository standards unless otherwise determined by the lead agency as the result of consultation. The collections and associated records shall be transferred, including title, to an appropriate curation facility meeting the Secretary of the Interior's minimum standards for curation (36 CFR 79.9), to be accompanied by payment of

the fees necessary for permanent curation. Final disposition of resources of Native American origin should be determined prior to project excavations. The ideal treatment from an archaeological perspective is that any recovered resources be curated for posterity and made available to researchers. However, the tribal significance of some materials may override their scientific value, in which case reburial may be preferred for some archaeological materials of tribal significance. If artifacts are reburied, the reburial will only occur after USACE and the County are satisfied that they have been suitably studied and documented. Minimum documentation will consist of count, weight, and basic description of all artifacts and include photographic documentation of any diagnostic artifacts and a representative sample of non-diagnostic artifacts.

9 PROFESSIONAL QUALIFICATIONS

This report was prepared by Michael Baker International Archaeologists Marc Beherec, Marcel Young, and Maximilian van Rensselaer. Archaeologists Marcel Young and Alexandra Navarro conducted the field survey and site recordation. Michael Baker International Cultural Resources Department Manager Margo Nayyar and Archaeologist James Daniels conducted quality assurance review.

Marc A. Beherec, PhD, RPA, has more than 20 years of experience in prehistoric and historical archaeology and cultural resources management. His experience includes writing technical reports, including National Environmental Policy Act (NEPA), NHPA, and CEQA compliance documents. He has supervised and managed all phases of archaeological fieldwork, including survey, Phase II testing and evaluations and Phase III data recovery, and monitoring at sites throughout Southern California. Dr. Beherec meets the Secretary of the Interior's Professional Qualification Standards for prehistory and historical archaeology.

Marcel Young, BA, has worked in various capacities in cultural resource management since 2013. He is experienced in surveying and conducting recording and evaluations of historic and prehistoric archaeological sites in California. Mr. Young is versed in conducting fieldwork within frameworks of Section 106 of the NHPA, NEPA, and CEQA. He has participated in projects in several phases of archaeology: Phase I pedestrian, Extended Phase I testing, shovel test surveys, buried site testing, Phase III data recovery, and monitoring.

Alexandra Navarro, BA, has worked as an archaeologist since 2011. She has experience in archaeological research, osteology, surveying, excavating, monitoring, and writing. Ms. Navarro is versed in conducting fieldwork within the frameworks of Section 106 of the NHPA, NEPA, and CEQA. She has participated in several phases of archaeological projects: Phase I pedestrian and shovel test surveys, Phase III data recovery, and Phase IV monitoring. Her project highlights include osteological analyses, archaeological excavations in Mexico and Southern California, artifact cataloging, and fieldwork for SB Energy Solar, Pacific Gas and Electric, and Mexico's Institute of National Anthropology and History. Other responsibilities consist of site identification, archival data recovery, report writing, and artifact preservation

Maximilian van Rensselaer, BA, RA, has worked as an archaeologist in cultural resource management since 2013. He has experience recording, excavating, and evaluating historic properties. He has completed projects in all phases of archaeology: Phase I pedestrian and shovel test surveys, extended Phase I surveys (XPI), buried site excavation, archaeological sensitivity assessments, Phase II testing and evaluations, Phase III data recovery, and Phase IV monitoring. He has worked in Nevada, California, Arizona, Texas, Louisiana, Oklahoma, Indiana, and Kentucky. Mr. van Rensselaer specializes in applying Section 106 of the NHPA. His other expertise includes geographic information systems (GIS) and NEPA desktop analysis. He is currently pursuing a master of professional studies degree in cultural and heritage resource management and a GIS graduate certificate at the University of Maryland.

James Daniels, MA, RPA, is a senior archaeologist with cultural resource management experience in California, Nevada, and North Carolina. His experience includes archaeological surveys, evaluations of historic and prehistoric sites for listing in the CRHR and NRHP, site mitigation data recoveries, mitigation monitoring, and preparation of archaeological resource management reports and cultural resources

technical reports. As senior archaeologist, he supports projects needing CEQA, NEPA, NHPA, Section 106, Native American Graves Protection and Repatriation Act, Assembly Bill 52, USACE 404 Permits, and local cultural resource regulation compliance. He also assists with environmental impact statements/reports and alternative mitigation measures for clients, including interpretive signage, informative website design, brochures, and ethnographic studies. He also assists in Native American consultation and coordination of Native American monitoring. Mr. Daniels provides advanced technical services for clients, including geophysical surveys with ground penetrating radar, obsidian and ceramic sourcing using portable X-ray fluorescence, photogrammetry, and GIS predictive modeling and data collection using Esri Field Maps. Mr. Daniels meets the Secretary of Interior's Professional Qualification Standards for archaeology and historic preservation.

Margo Nayyar, MA, is a senior architectural historian with 13 years of cultural management experience in California, Nevada, Arizona, Texas, Idaho, and Mississippi. Her experience includes built environment surveys, evaluation of historic-era resources using guidelines outlined in the NRHP/CRHR, and preparation of cultural resources technical studies pursuant to CEQA and NHPA Section 106, including identification studies, finding of effect documents, memorandum of agreements, programmatic agreements, and Historic American Buildings Survey/Historic American Engineering Record/Historic American Landscapes Survey mitigation documentation. She prepares cultural resources sections for CEQA environmental documents, including infill checklists, initial studies, and environmental impact reports, as well as NEPA environmental documents, including environmental impact statements and environmental assessments. She also specializes in municipal preservation planning, historic preservation ordinance updates, Native American consultation, and provision of Certified Local Government training to interested local governments. She develops Survey 123 and Esri Collector applications for large-scale historic resources surveys, and authors NRHP nomination packets. Ms. Nayyar meets the Secretary of the Interior's Professional Qualification Standards for history and architectural history.

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Michael Baker
INTERNATIONAL

Appendix A
Native American Heritage Commission Coordination

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
[Vacant]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

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

December 8, 2022

Max van Rensselaer
Michael Baker International

Via Email to: max.vanrensselaer@mbakerintl.com

Re: Antelope Valley Logistics Center West Project, Los Angeles County

Dear Mr. van Rensselaer:

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 negative. 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.

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.

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.

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

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
12/8/2022

Fernandeno Tataviam Band of Mission Indians
Rudy Ortega, Tribal President
1019 Second Street, Suite 1 — Tataviam
San Fernando, CA, 91340
Phone: (818) 837 - 0794
Fax: (818) 837-0796
thcp@tataviam-nsn.us

Morongo Band of Mission Indians
Robert Martin, Chairperson
12700 Pumarra Road — Cahuilla, Serrano
Banning, CA, 92220
Phone: (951) 755 - 5110
Fax: (951) 755-5177
abrierty@morongo-nsn.gov

Morongo Band of Mission Indians
Ann Brierty, THPO
12700 Pumarra Road — Cahuilla, Serrano
Banning, CA, 92220
Phone: (951) 755 - 5259
Fax: (951) 572-6004
abrierty@morongo-nsn.gov

Quechan Tribe of the Fort Yuma Reservation
Manfred Scott, Acting Chairman
Kw'ts'an Cultural Committee
P.O. Box 1899 — Quechan
Yuma, AZ, 85366
Phone: (928) 750 - 2516
scottmanfred@yahoo.com

Quechan Tribe of the Fort Yuma Reservation
Jill McCormick, Historic Preservation Officer
P.O. Box 1899 — Quechan
Yuma, AZ, 85366
Phone: (760) 572 - 2423
historicpreservation@quechantribe.com

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838 — Kitanemuk, Vanyume, Tataviam
Newhall, CA, 91322
Phone: (503) 539 - 0933
Fax: (503) 574-3308
ddyocum@comcast.net

San Manuel Band of Mission Indians
Jessica Mauck, Director of Cultural Resources
26569 Community Center Drive — Serrano
Highland, CA, 92346
Phone: (909) 864 - 8933
Jessica.Mauck@sanmanuel-nsn.gov

Serrano Nation of Mission Indians
Wayne Walker, Co-Chairperson
P. O. Box 343 — Serrano
Patton, CA, 92369
Phone: (253) 370 - 0167
serranonation1@gmail.com

Serrano Nation of Mission Indians
Mark Cochrane, Co-Chairperson
P. O. Box 343 — Serrano
Patton, CA, 92369
Phone: (909) 528 - 9032
serranonation1@gmail.com

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 Antelope Valley Logistics Center West Project, Los Angeles County.

Michael Baker
INTERNATIONAL

Appendix B
Historical Society Consultation

From:	Anderson, Michelle
To:	peggy@avhistorical.org
Cc:	Beherec, Marc; Nayyar, Margo
Subject:	Antelope Valley Logistics Center Phase 1 Project - Historical Society Consultation
Date:	Thursday, December 22, 2022 12:54:58 PM
Attachments:	West Antelope Valley Historical Society Consultation Letter.pdf

Good afternoon,

Michael Baker International is conducting a cultural resources investigation for the Antelope Valley Logistics Center Phase 1 Project in Lancaster, California. Please see the attached letter and maps for additional details about the project. We are conducting outreach to you, the local historical society, to ask if you have any information or concerns about historic properties or cultural resources within the Area of Potential Effects. If you have any questions or comments, please contact Michael Baker International using the contact information in the attached letter.

Sincerely,

Michelle Anderson | Architectural Historian II | Pronouns: she/her
3100 Zinfandel Drive, Suite 125 | Rancho Cordova, CA 95670 | [O] 916-517-4422
Michelle.Anderson@mbakerintl.com | www.mbakerintl.com

Michael Baker
INTERNATIONAL

We Make a Difference

December 22, 2022

WEST ANTELOPE VALLEY HISTORICAL SOCIETY
P.O. BOX 1972
LANCASTER, CALIFORNIA 93539-1972
VIA EMAIL: PEGGY@AVHISTORICAL.ORG

RE: ANTELOPE VALLEY LOGISTICS CENTER PHASE 1 PROJECT, CITY OF LANCASTER, LOS ANGELES COUNTY, CALIFORNIA

To Whom It May Concern:

Michael Baker International is conducting a cultural resources investigation for the Antelope Valley Logistics Center Phase 1 Project (project). The project is located at the intersection of West Avenue F and 20th Street West in the City of Lancaster, California. Figures depicting the Area of Potential Effects (APE) are included in **Attachment 1**.

The proposed project would include construction of two distribution warehouses on approximately 121 acres. Each distribution warehouse would consist of a approximately 1,004,000 square-foot building footprint, which includes approximately 40,000 square feet of office space. Each proposed distribution warehouse is intended to function as a fulfillment center, operating 24 hours a day, seven days a week, and employing up to approximately 2,016 people (total of 4,032). To provide access to the project site, Avenue F would be partially improved along the northerly property boundary, in addition to partial improvements of 20th Street West along the westerly property boundary, Avenue F along the southerly boundary, and full improvements of a new proposed public road on the east side of the property. Additional ancillary improvements such as landscaping and utility work would also be required

Please notify us if your organization has any information or concerns about historic properties within the APE. This is not a request for research; it is solely a request for public input related to any concerns that the West Antelope Valley Historical Society may have. Please contact me at your earliest convenience at Michelle.Anderson@mbakerintl.com or 916-517-4422 if you have any questions or comments.

Sincerely,

Michelle Anderson

Michelle Anderson
Architectural Historian

Attachments:
Attachment 1 - Figures



PN: 192704

Project Area

Michael Baker INTERNATIONAL

N

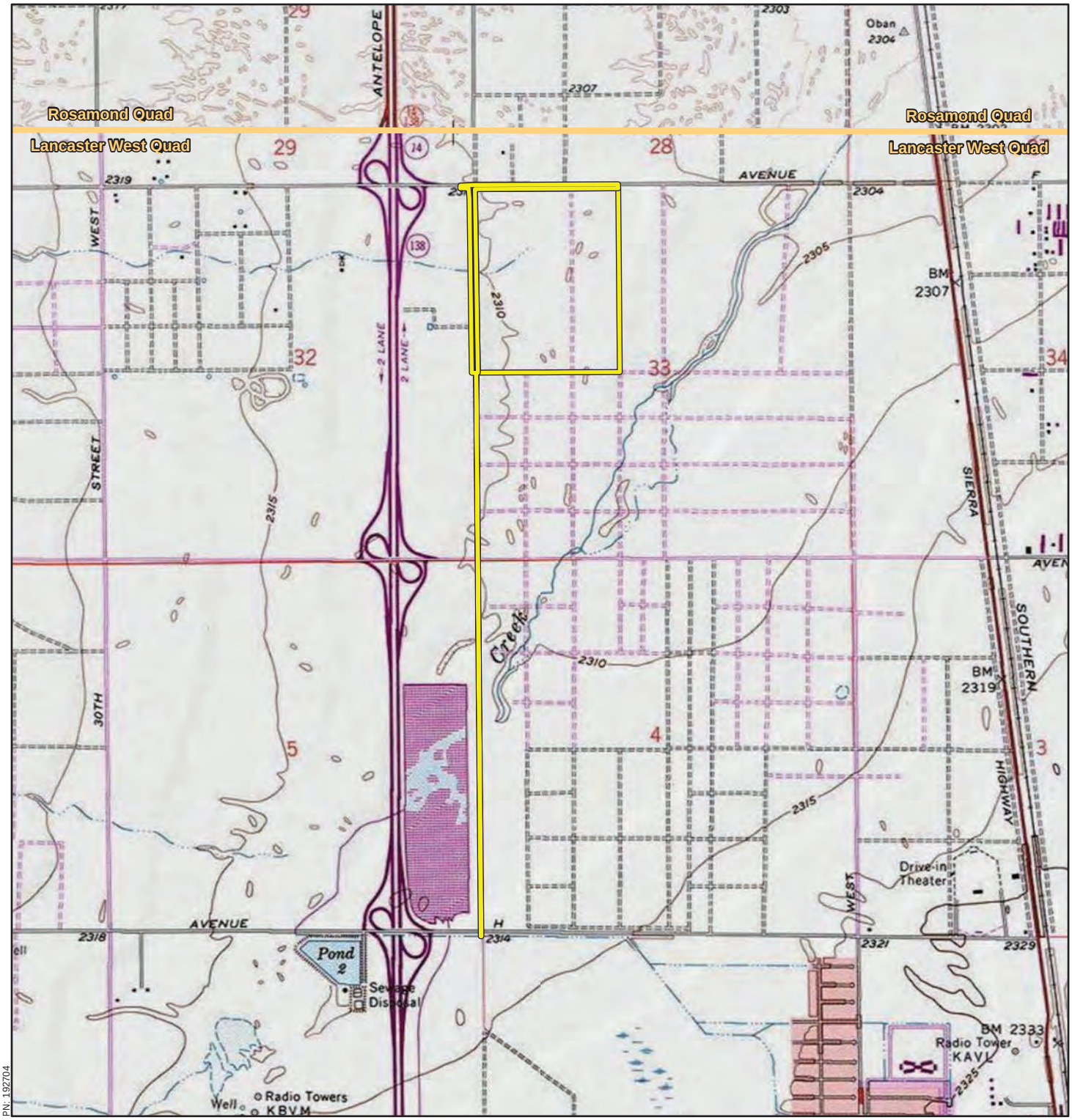
0 2.5 5 10 Miles

Source: Esri, ArcGIS Online, National Geographic World Map: *Lancaster, California*

ANTELOPE VALLEY LOGISTICS CENTER PHASE 1
LANCASTER, CA

Regional Vicinity

Figure 1



Project Area

ANTELOPE VALLEY LOGISTICS CENTER PHASE 1
LANCASTER, CA

Project Vicinity

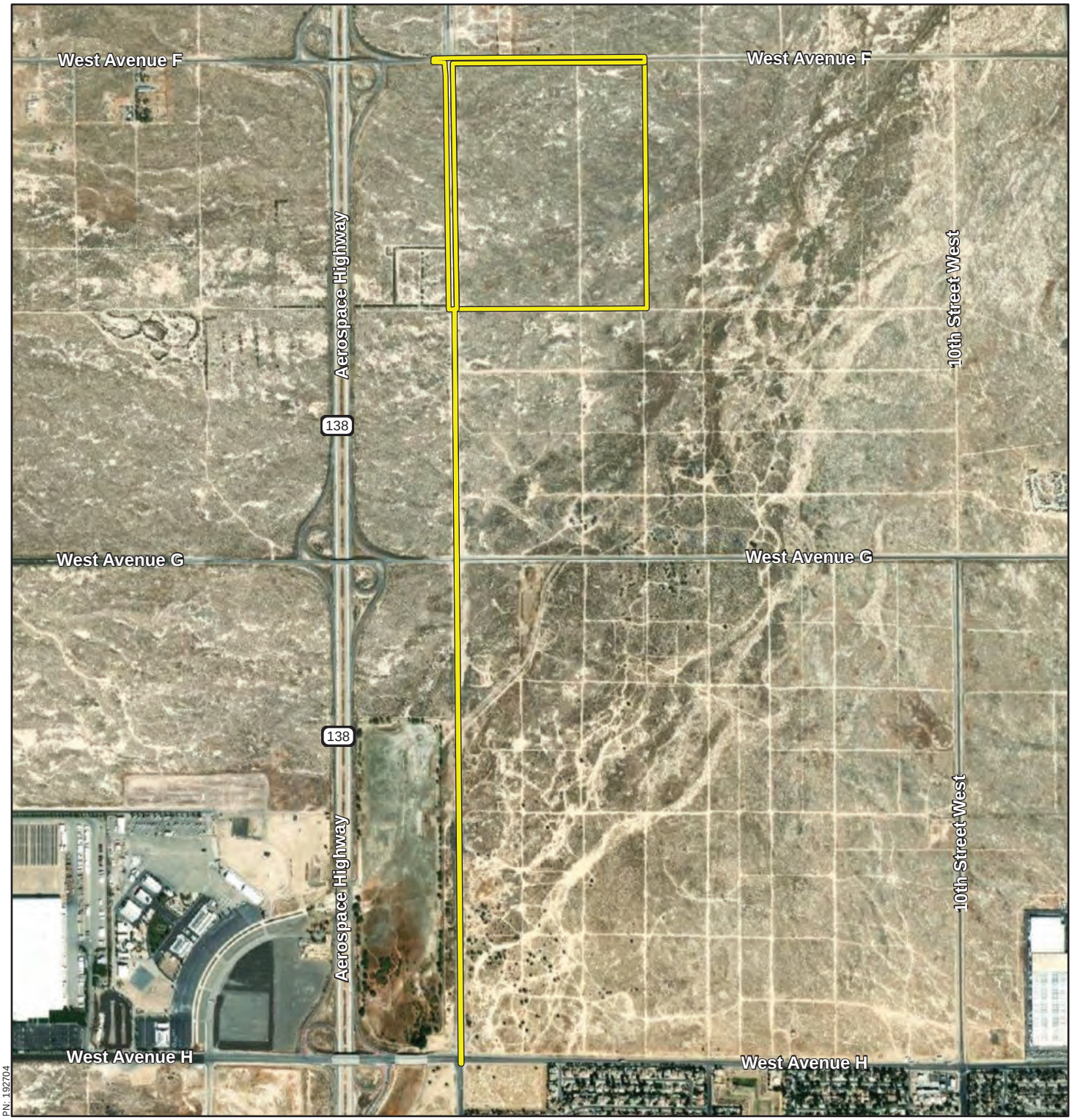
Michael Baker INTERNATIONAL

N

0 0.13 0.25 0.5 Miles

Source: Esri, ArcGIS Online, USGS 7.5-Minute topographic quadrangle maps: *Lancaster, California*

Figure 2



Project Area

Michael Baker INTERNATIONAL

N

0 500 1,000 2,000 Feet

Source: Esri, ArcGIS Online, 2021 Nearmap Imagery: *Lancaster, California*

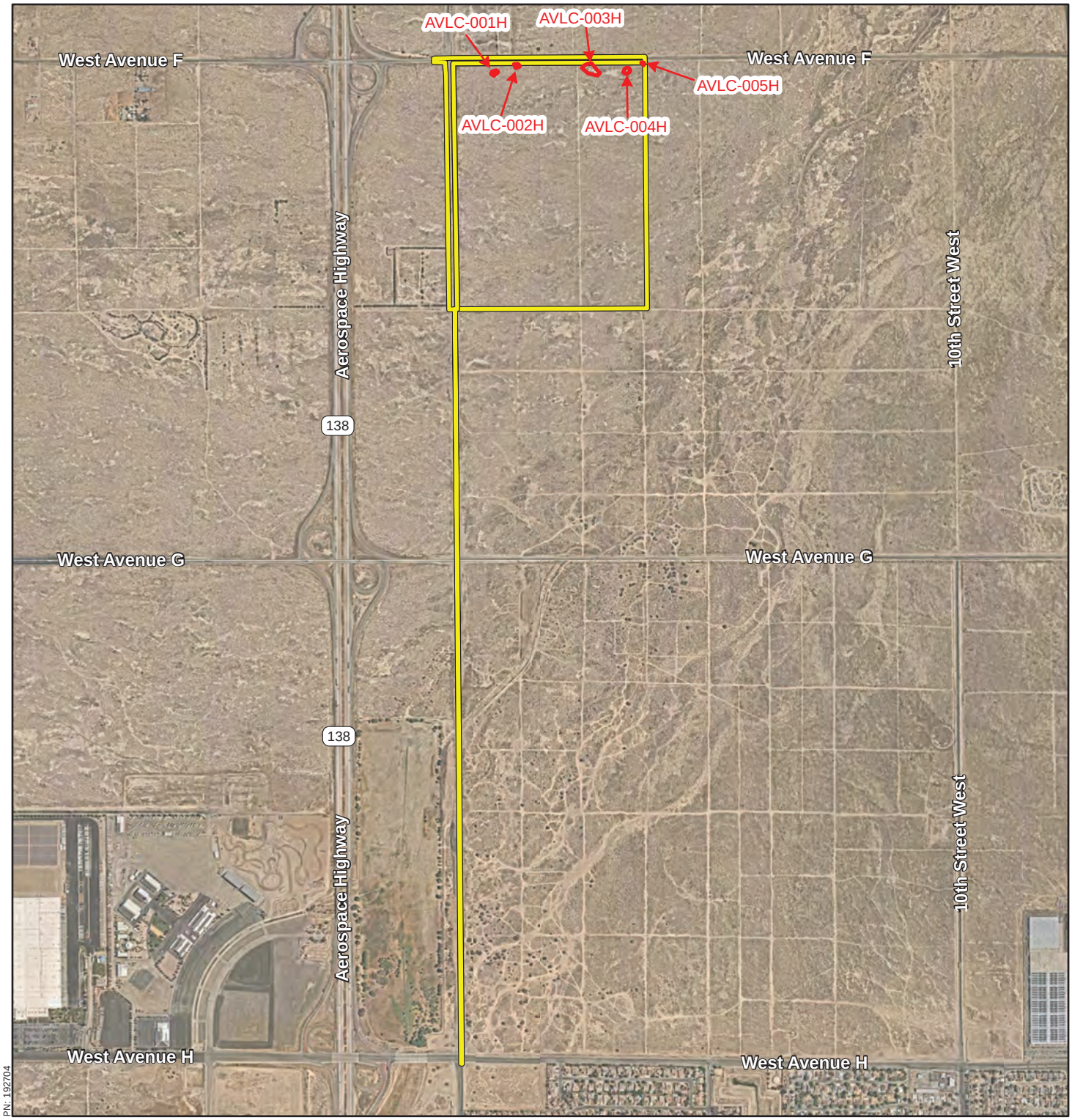
ANTELOPE VALLEY LOGISTICS CENTER PHASE 1
LANCASTER, CA

Project Area

Figure 3

Michael Baker
INTERNATIONAL

Appendix C
Map: Archaeological Resources within the APE (Confidential)



PN: 192704

Area of Potential Effects

Archaeological Sites

Michael Baker INTERNATIONAL

N

0 500 1,000 Feet

Source: Esri, ArcGIS Online, 2021 Nearmap Imagery: *Lancaster, California*

ANTELOPE VALLEY LOGISTICS CENTER WEST
LANCASTER, CA

Archaeological Sites Within the APE

Michael Baker
INTERNATIONAL

Appendix D
DPR 523 Series Forms
(Confidential)

19-003044

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:

☐ Update or Supplement
Date:

*Resource Name or Number (Assigned by Recorder): Site CGI TRUNK-F 1
P1. Other Identifier: N.A.

*P2. Location: ☒ Not for Publication ☐ Unrestricted *a. County: Los Angeles
*b. USGS 7.5' Quad: Lancaster West, CA Date: 1974; T12W; R8N; NW ¼ of NW ¼ of Sec. 33; San Bernardino B.M.
c. Address: N.A. City: Between the Cities of Lancaster and Rosamond, California
d. UTM: (Give more than one for large and/or linear resources) Zone: 11; 393233 mE/3845419 mN
e. Other Locational Data (e.g., parcel #, directions to resource, elevation, etc., when appropriate: The site is located near the east side of 20th Street West, 0.2 mile south of Avenue F, at an elevation of 2,310 feet above mean sea level.

*P3a. Description (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries):
Site CGI TRUNK-F 1 is a historic-period (ca. Late 1920s-1950s) refuse deposit consisting of four artifact concentrations with a surrounding sparse scatter of artifacts. Artifacts consist primarily of food cans, beverage bottle fragments, and condiment jar fragments. A smaller amount of domestic ceramics, automotive parts and oil cans, and miscellaneous hardware is also represented. The site is spread along the east side of 20th Street West for a distance of approximately 200 meters, and extends east from the road approximately 60 meters. Portions of Concentrations 2 and 4 appear to have been burned, probably at the time of deposition. Evidence of recent digging by bottle hunters was observed. Recent trash dumping has also disturbed the site.

The site is approximately 0.2 mile south of a historic-period homestead that appears on the 1933 USGS Oban, California, 7.5' topographic quadrangle. This homestead, located on the northeast corner of the intersection of 20th Street West and Avenue F, is still in use. The site may represent dumping of refuse from the homestead.

*P3b. Resource Attributes (List Attributes and Codes): AH4 (Dump/Trash Scatter)
*P4. Resources Present: ☐ Building ☐ Structure ☐ Object ☒ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

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

See Continuation Sheet.

P5b. Description of ☒ Photo ☐ Drawing (View, date, accession#) : See Continuation Sheet

*P6. Date Constructed/Age and Sources ☐ Prehistoric ☒ Historic ☐ Both : Determined by artifact dates.

*P7. Owner and Address:
County of Los Angeles
500 W. Temple Street
Los Angeles, CA 90012

*P8. Recorded by (Name, affiliation, address):
Cary D. Cotterman and
Valerie Van Hemelryck
Chambers Group, Inc.
302 Brookside Avenue
Redlands, CA 92373

*P9. Date ☒ Recorded ☐ Updated:
10/24/01

*P10. Type of Study (Describe):
Intensive pedestrian archaeological survey; 20-meter interval between personnel.

*P11. Report Citation (Cite survey report and other sources, or enter "none."):
Chandler, Evelyn N., Cary D. Cotterman, Valerie M. Van Hemelryck, and Roger D. Mason, Ph.D.
2001 *Archaeological Survey for the Proposed Installation of the Trunk "F" Sewer, and Rosamond Outfall Relief Trunk Sewer, Located between Lancaster and Rosamond, Los Angeles County, California*. Prepared for County Sanitation Districts of Los Angeles County. Prepared by Chambers Group, Inc., Redlands, California. On file at the South Central Coastal Information Center, California State University, Fullerton.

*Attachments: ☐ NONE ☒ Location Map ☒ Sketch Map ☒ Continuation Sheets ☐ Building, Structure, and Object Record ☐ Linear Feature Record ☒ Archaeological Site Record ☐ District Record ☐ Bedrock Grinding Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List):

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

ARCHAEOLOGICAL SITE RECORD

Primary # :
Trinomial :

Resource Name or Number (Assigned by recorder): Site CGI TRUNK-F 1

***A1. Dimensions:** **a. Length:** 200 meters (north/south) × **b. Width:** 60 meters (east/west)
Method of Measurement: ☒ **Paced** ☒ **Taped** ☐ **Visual estimate** ☒ **Other:** Global Positioning System (GPS)
Method of Determination (Check any that apply.): ☒ **Artifacts** ☐ **Features** ☐ **Soil** ☐ **Vegetation** ☐ **Topography** ☐ **Cut bank** ☐ **Animal burrow** ☐ **Excavation** ☐ **Property boundary** ☐ **Other (Explain):**
Reliability of Determination: ☒ **High** ☐ **Medium** ☐ **Low** **Explain:** Surface deposit; good ground visibility.
Limitations (Check any that apply): ☐ **Restricted access** ☐ **Paved/built over** ☐ **Disturbances** ☐ **Site limits incompletely defined** ☐ **Vegetation** ☒ **Other (Explain):** No limitations

A2. Depth: ☒ **None** ☐ **Unknown** **Method of Determination:** Visual. Type of deposit (roadside dumping) and lack of recent soil deposition make it highly unlikely that a subsurface component exists.

***A3. Human Remains:** ☐ **Present** ☒ **Absent** ☐ **Possible** ☐ **Unknown (Explain):** No human remains were observed. Human remains highly unlikely in 20th century roadside refuse deposit.

***A4. Features (Number, briefly describe, indicate size, list associated cultural constituents, and show location of each feature on sketch map.):** No features were observed.

***A5. Cultural Constituents (Describe and quantify artifacts, ecofacts, cultural residues, etc., not associated with features.):** The site consists of four artifact concentrations surrounded by a sparse scatter of artifacts. Artifacts consist primarily of food cans, beverage bottle fragments, and condiment jar fragments. A smaller amount of domestic ceramics, automotive parts and oil cans, and miscellaneous hardware is also represented. (See Continuation Sheet.)

***A6. Were Specimens Collected?** ☒ **No** ☐ **Yes (If yes, attach Artifact Record or catalog and identify where specimens are curated.)**

***A7. Site Condition:** ☐ **Good** ☒ **Fair** ☐ **Poor (Describe disturbances.):** Disturbances to the site include digging by bottle hunters and recent trash dumping.

***A8. Nearest Water (Type, distance, and direction.):** Amargosa Creek, a seasonal drainage, is located 0.6 mile southeast of the site.

***A9. Elevation:** 2,310 feet above mean sea level

A10. Environmental Setting (Describe culturally relevant variables such as: vegetation, fauna, soils, geology, landform, slope, aspect, exposure, etc.): The site is situated on the floor of an alluvial basin with little slope or topographic relief. Soil consists of silty sand. Vegetation in the vicinity consists of saltbush scrub.

A11. Historical Information: Factors in the 20th century development of the Lancaster area included construction of railroads in the Antelope Valley; homestead claims; mining; and military activities in the region. The main focus of the economy of the Lancaster area, however, was agriculture and ranching. Between the late 1800s and the withdrawal of lands from public domain in 1935, numerous homesteads were established (Settle 1967a, b). The site is located near a historic-period homestead that appears on the USGS Oban, California 7.5' topographic quadrangle map of 1933.

***A12. Age:** ☐ **Prehistoric** ☐ **Protohistoric** ☐ **1542-1769** ☐ **1769-1848** ☐ **1848-1880** ☐ **1880-1914** ☒ **1914-1945** ☒ **Post 1945** ☐ **Undetermined (Describe position in regional prehistoric chronology or factual historical dates if known):**

A13. Interpretations (Discuss data potential function[s], ethnic affiliation, and other interpretations): The site appears to represent predominantly domestic refuse disposal, possibly related to a historic-period homestead located 0.2 miles to the north. This homestead appears on the USGS Oban, California 7.5' topographic quadrangle map of 1933. Its existence at that time is consistent with the dates of temporally diagnostic artifacts recorded within the site, which range from the late 1920s to the 1950s.

A14. Remarks: The site is not likely to be affected by activities associated with construction of the proposed sewer line. Furthermore, it is not known to be associated with any events or persons important in history, and is not, therefore, recommended eligible for listing in the National Register of Historic Places (NRHP) under Criteria A or B. It is a refuse deposit, and NRHP Criterion C is not applicable. It is highly unlikely to have a subsurface component, and is not believed to have any further research potential. The site is not, therefore, recommended eligible for NRHP listing under Criterion D.

A15. References (Documents, informants, maps, and other references): See Continuation Sheet.

A16. Photographs (List subjects, direction of view, and accession numbers or attach a Photograph Record.): See Continuation Sheet
Original Media/Negatives Kept at: Chambers Group, Inc., 302 Brookside Avenue, Redlands, CA 92373

***A17. Form Prepared by:** Cary D. Cotterman **Date:** 10/30/01

***Affiliation and Address:** Chambers Group, Inc., 302 Brookside Avenue, Redlands, CA 92373

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

Primary #:
HRI#/Trinomial:

 *Resource Name or Number (Assigned by recorder): Site CGI TRUNK-F 1
*Recorded by: C. Cotterman, V. Van Hemelryck *Date: 10/24/01 ☒ Continuation ☐ Update

***A5. Cultural Constituents (continued from Archaeological Site Record):**

Concentration 1: Concentration 1 measures 9 meters (north-south) by 12 meters (east-west). It consists predominantly of sanitary food cans of various sizes (approximately 200+). There are also approximately 40 to 50 matchstick filler (vent-hole) cans measuring 3-15/16" high by 2-15/16" in diameter. Glass artifacts include a clear glass bottle base with the maker's mark of the Illinois Pacific Coast Company (IPCCo in a diamond) embossed, a clear glass bottle base with "Karo Syrup" embossed, fragments of a clear glass bottle, and fragments of a green glass bottle. Other artifacts include a galvanized steel bucket, two enamelware pots, a wire grate, steel strapping, a piece of automotive exhaust pipe, and three fragments of large mammal bone.

Date: Illinois Pacific Coast Company maker's mark: 1925-1930 (Toulouse 1971)

Concentration 2: Concentration 2 is located approximately 15 meters south of Concentration 1. It measures 20 meters (north-south) by 15 meters (east-west). It consists predominantly of sanitary food cans of various sizes (approximately 70+). There are also approximately 20+ matchstick filler (vent-hole) cans, measuring 3-15/16" high by 2-15/16" in diameter and 2-5/16" high by 2-8/16" in diameter. Other cans include four automotive oil cans and one 1-gallon paint can. Glass artifacts include two clear glass bottle bases with the makers mark of the Latchford-Marble Glass Company (an interlocked LM) embossed, one of which also has "Santa Fe Vintage Co" embossed; three clear glass bottle bases with the maker's mark of the Owens-Illinois Glass Company (an I inside an O inside a diamond) embossed, two of which are from plant 20 and one of which is from plant 7; one clear glass bottle base with the maker's mark of the Glass Containers Corporation (interlocked, squared CG) embossed; fragments of approximately 15 clear glass bottles; fragments of one green glass bottle; three clear drinking glass fragments; and part of a white glass bowl. Other artifacts include green, white, and tan crockery fragments; rubber hose fragments; and a large pile of broken cement plaster fragments with chicken wire reinforcement. The southern part of Concentration 2 appears to have been burned at the time of deposition.

Dates:	Latchford-Marble Glass Company maker's mark:	1939-1957	(Toulouse 1971)
	Glass Containers Corporation maker's mark:	post-1945	(Toulouse 1971)
	Owens-Illinois Glass Company maker's mark, plant 7:	1929-1954	(Toulouse 1971)
	Owens-Illinois Glass Company maker's mark, plant 20:	1929-ca. 1940	(Toulouse 1971)
	Vent-hole can, 2-5/16" (h) x 2-8/16" (d):	1950-present	(Rock 1989)

Concentration 3: Concentration 3 is located approximately 40 meters south of Concentration 2. It measures 3 meters (north-south) by 3 meters (east-west). It consists of one piece of sheet metal (steel), one piece of sheet metal formed around a piece of oak framework, and several pieces of oak. The sheet metal and oak are parts of a very old automobile body.

Date: Unknown; however, appears to be pre-1930.

Concentration 4: Concentration 4 is located approximately 45 meters south-southeast of Concentration 3. It measures 7 meters (north-south) by 7 meters (east-west). It consists predominantly of sanitary food cans of various sizes (30+) and matchstick filler (vent-hole) cans (30+) that measure 3-15/16" high by 2-15/16" in diameter. Other cans consist of three cone-top beverage cans. Glass artifacts include a clear glass bottle base with the maker's mark of the Owens-Illinois Glass Company (an I inside an O within a diamond) embossed, with plant number 7 and "The Lavoris Company" also embossed; a clear glass jar base with "Cheeseborough Ponds Mfg. Co." embossed; a brown glass bottle base with the maker's mark of the Owens-Illinois Glass Company (an I inside an O within a diamond) and plant number 7 embossed; fragments of a green glass "7-Up" bottle; and amber glass decorative bowl fragments. Other artifacts include remains of several C-size batteries, bailing wire, several steel barrel hoops, chicken wire, and numerous chunks of an unidentified white material. Concentration 4 appears to have been burned at the time of deposition.

Dates: Owens-Illinois Glass Company maker's mark, plant 7: 1929-1954 (Toulouse 1971)

Sparse Surrounding Artifact Scatter: A sparse artifact scatter, consisting of sanitary food cans and glass bottle fragments, connects the four artifact concentrations. This scatter extends 15 meters north of Concentration 1, 20 meters south of Concentration 4, 30 meters east of the four concentrations, and west to the east side of 20th Street West. No temporally diagnostic artifacts were observed in the scatter.

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

Primary #:
HRI#/Trinomial:

 *Resource Name or Number (Assigned by recorder): Site CGI TRUNK-F 1
*Recorded by: C. Cotterman, V. Van Hemelryck *Date: 10/24/01 ☒ Continuation ☐ Update

A15. References (continued from Archaeological Site Record):

Rock, James
1989 *Tin Canisters: Their Identification*. U.S. Department of Agriculture, Forest Service, Region V, Klamath National Forest, Yreka, California.

Settle, Glen A.
1967a The History of Lancaster. In *Along the Rails from Lancaster to Mojave*. Glen A. Settle, Editor. Kern-Antelope Historical Society, Inc., Lancaster, California. Pp. 6-13.

1967b The Founding and Growth of Lancaster. In *Along the Rails from Lancaster to Mojave*. Glen A. Settle, Editor. Kern-Antelope Historical Society, Inc., Lancaster, California. Pp. 14-34.

Toulouse, Julian Harrison
1971 *Bottle Makers and Their Marks*. Thomas Nelson, Inc., New York.

* Required information

P5a. Photographs (continued from Primary Record):



Photo 1: Overview of site, Concentration 1 artifacts in foreground. View toward south, 10/24/01.

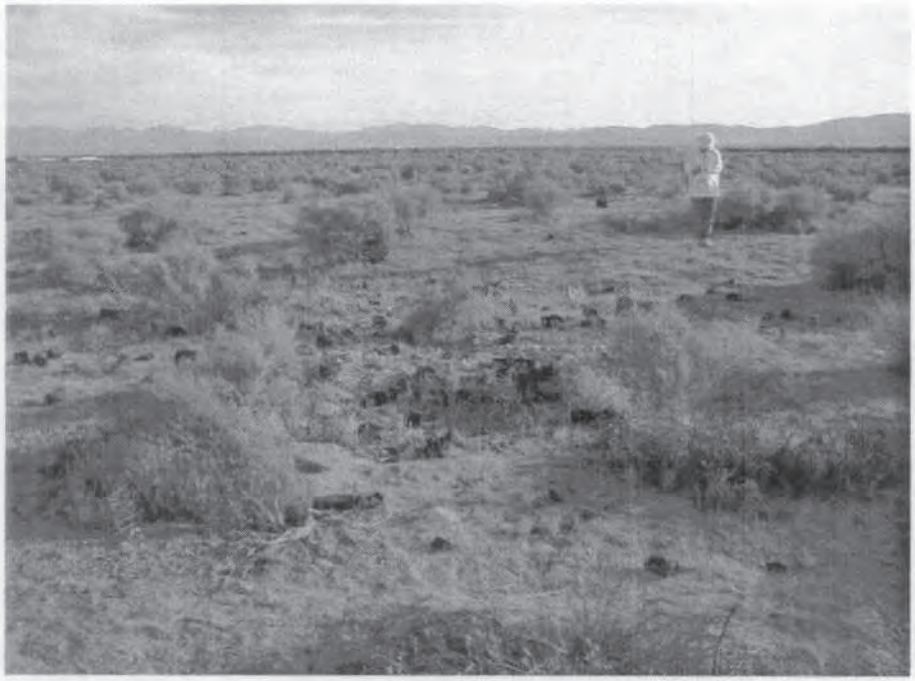


Photo 2: Artifact Concentration 2. View toward south, 10/24/01.

P5a. Photographs (continued from Primary Record):

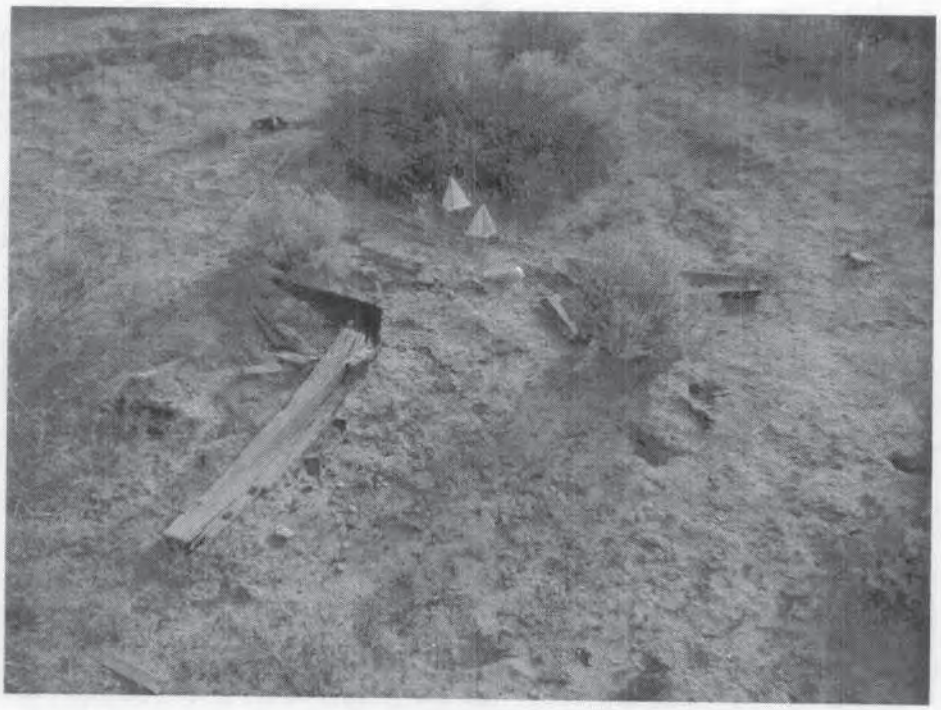


Photo 3: Artifact Concentration 3. View toward southwest, 10/24/01.



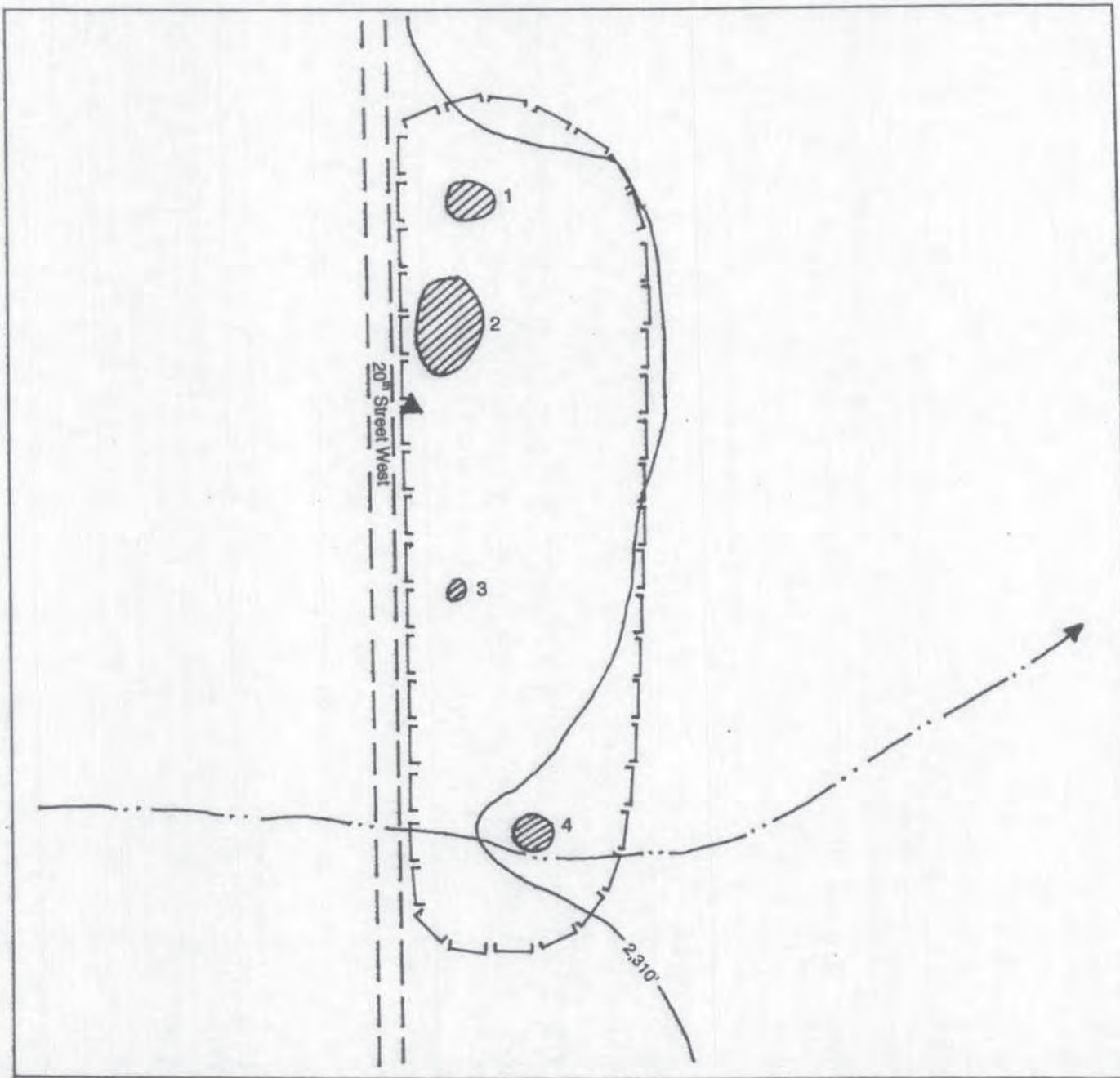
Photo 4: Overview of site, Concentration 4 artifacts in foreground. View toward north, 10/24/01.

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

SITE MAP

Primary #: 19-003044
HRI#
Trinomial:

*Resource Name or Number (Assigned by recorder): Site CGI TRUNK-F 1
*Date of Map: 10/24/01



* Required information

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

LOCATION MAP

Primary #:
HRI#
Trinomial:

19-003044

Page 8 of 8

*Resource Name or Number (Assigned by recorder): Site CGI TRUNK-F 1

*Map Name: Lancaster West, CA

*Scale: 1:24,000

*Date of Map: 1974



TN

DPR 523J (1/95)

SCALE IN MILES
0 .5 1

* Required information

The description in this resource's existing site form remains accurate, but the site has deteriorated since its initial recording. The historic trash scatters, including discrete dumps and scattered artifacts, remain. No new historic site elements were observed. However, a squatters' encampment, consisting mainly of recreational vehicles, has been established along 20th Street West, and the occupants are dumping modern waste, including human excrement, on top of the site. Large amounts of modern rubbish and burn pits associated with the encampment now cover the site. The resource will be destroyed by the proposed project.



Overview of modern refuse covering the site, view southeast from 20th Street West, Photo #243.



Overview of site, view south, Photo #244.

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

***Resource Name or #:** AVLC-001H

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication**

- ***a. County** Los Angeles
- ***b. USGS 7.5' Quad** *Lancaster West, Calif.* **Date** 1958 **T** 8N; **R** 12W; SW ¼ **of** NW ¼ **of Sec** 33 S.B.B.M
- c. Address None City Lancaster Zip None
- d. UTM: Zone 11S, 393368mE/ 3845658 mN 2313 ft amsl
- e. Other Locational Data:
  The resource is located within Assessor's Parcel Number (APN) 3118-015-001, 80 feet south of West Avenue F between 20th Street West and 17th Street West. It can be located from the intersection of West Avenue F and 20th Street West by foot, 498 feet away, at a compass heading of 102 degrees.

***P3a. Description:** This historic site is a refuse deposit consisting of metal cans. The cans are concentrated within a single locus representing a single dumping event, with a small number of cans dispersed around this locus. The various crushed cans and other modern refuse are moderately dispersed. The site is in a highly deteriorated state. The resource is located upon sandy terrain at the west edge of the Mojave Desert. The site boundary is approximately 61.5 feet (north–south) by 78 feet (east–west). Its approximate center, the locus, measures approximately 20.5 feet (north–south) by 15.7 feet (east–west).

***P3b. Resource Attributes:** AH4. Privies/ Dumps/ Trash Scatter

***P4. Resources Present:** ☒ Site

P5a. Photograph or Drawing



P5b. Description of Photo:
Photo 1: Site overview facing north, 12/15/2022, Photo #0323

P6. Date Constructed/Age and Source: ☒ Historic

***P7. Owner and Address:**
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

***P8. Recorded by:**
Alexandra Navarro and Marcel Young
Michael Baker International
3760 Kilroy Airport Way, #270
Long Beach, CA 90806

***P9. Date Recorded:** 12/15/2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation**: Beherec, Marc A., Marcel Young, Maximilian van Rensselaer, and Alexandra Navarro. 2023. *Phase 1 Cultural Resources Assessment, Antelope Valley Logistics Center West Project, Los Angeles County, California.* Prepared by Michael Baker International for NorthPoint Development.

***Attachments:** ☒Location Map ☒Continuation Sheet ☒Archaeological Record ☒Sketch Map

ARCHAEOLOGICAL SITE RECORD

***A1. Dimensions: a. Length:** 18.7 m. **(**north-south**) b. Width:** 23.7 m. **(**east-west**)**
Method of Measurement: ☒ Other: Measured in Field Maps Application on iPad
Method of Determination: ☒ Artifacts
Reliability of Determination: ☒ High
Limitations: None.

A2. Depth: None Method of Determination: Visual; site consists of surface dumping.

***A3. Human Remains:** ☒ Absent

***A4. Features**:
None.

***A5. Cultural Constituents:**
A locus representing a single dumping event was observed. Artifacts within the locus include 16 vent hole cans measuring 3 inches by 4-1/4 inches; one rectangular hole-in-top can lid measuring 3-1/4 inches by 2-1/2 inches by 11/16-inch; one rectangular meat tin; and six pails measuring 6 inches in diameter.

Ten cans were observed outside the locus, including three knife-opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall; three vent-hole sanitary cans measuring 2-1/2 inches in diameter by 2-3/8 inches tall; and four church key opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall.

***A6. Were Specimens Collected?** ☒ No

***A7. Site Condition:** ☒ Poor Artifacts are deliberately broken by human activity and corroded and scattered by natural processes.

***A8. Nearest Water:** Unnamed seasonal stream, 879 feet 166 degrees south; Lower Amargosa Creek, 0.5 miles due north

***A9. Elevation:** 2313 feet AMSL

A10. Environmental Setting**:** The site is located upon a flat valley floodplain in the high desert, soil is a fine sandy loam yellowish brown in color, vegetation is cattle saltbrush and rubber rabbitbrush, slope is flat, aspect is completely exposed, and visibility is 90% due to sparse vegetation.

A11. Historical Information: This site location is proximal to the now-paved modern road. In the past, it was a dirt road first mapped in 1930 as Welds Road and in 1933 labeled Avenue F (USGS 1930, 1933). The cans, which include vent hole cans first made in 1900 and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

***A12. Age:** ☒ 1914-1945 ☒ Post 1945

A13. Interpretations: The resource appears to be the result of roadside dumping, which began with the establishment of the road and continues to this day. The resource does not appear to be eligible for either the NRHP or CRHR under any criteria.

A14. Remarks: The resource will be destroyed by the proposed project.

A15. References:

Rock, Jim. 1993. Can Chronology. Document on file, Michael Baker International.
USGS (United States Geological Survey). 1930. *Oban, Calif,*. 1:24,000 scale topographic quadrangle.
_____. 1933. *Oban, Calif.*, 1:24,000 scale topographic quadrangle.

A16. Photographs: See continuation sheet.

Original Media/Negatives Kept at: 3100 Zinfandel Dr. Suite 125, Rancho Cordova CA 95670

***A17. Form Prepared by:** Marcel Young **Date:** 1/4/2023
Affiliation and Address: Michael Baker International, 3760 Kilroy Airport Way Suite 270, Long Beach, CA 90806

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

LOCATION MAP

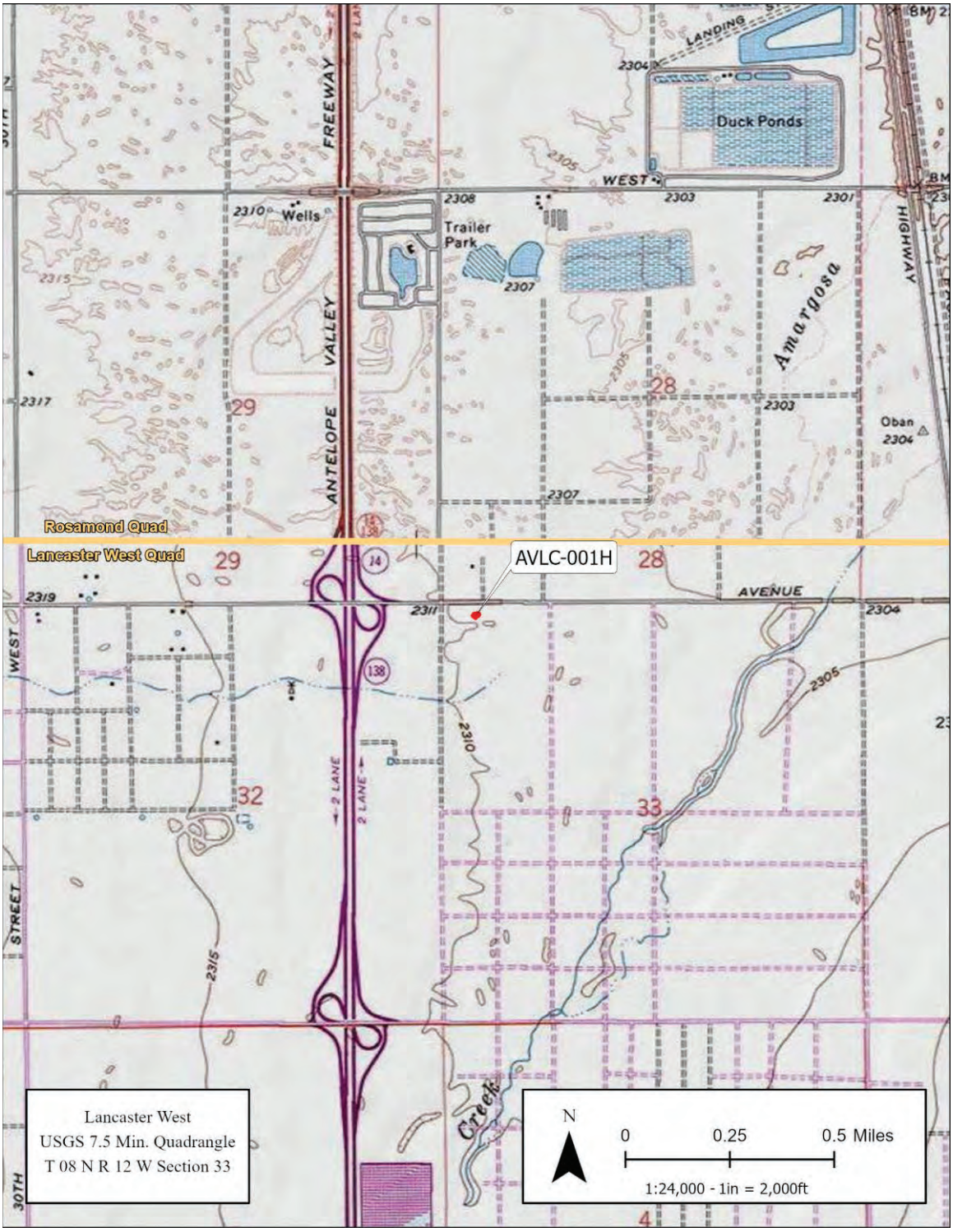
Primary #
HRI#
Trinomial

***Resource Name or #** AVLC-001H

***Map Name:** *Lancaster West, Calif.*

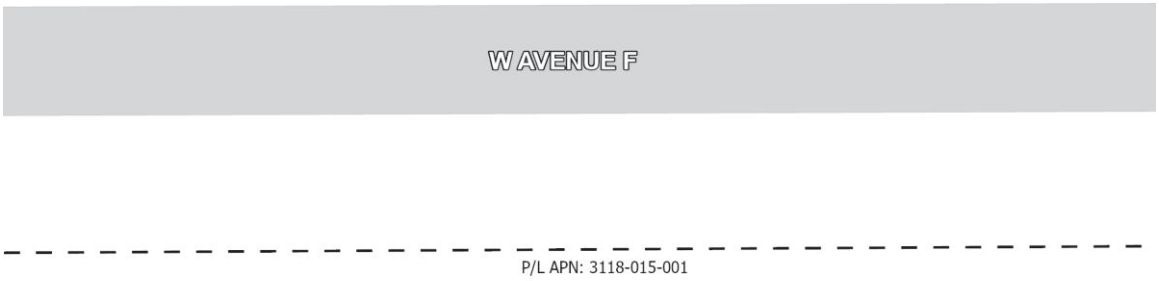
***Scale:** 1:24,000

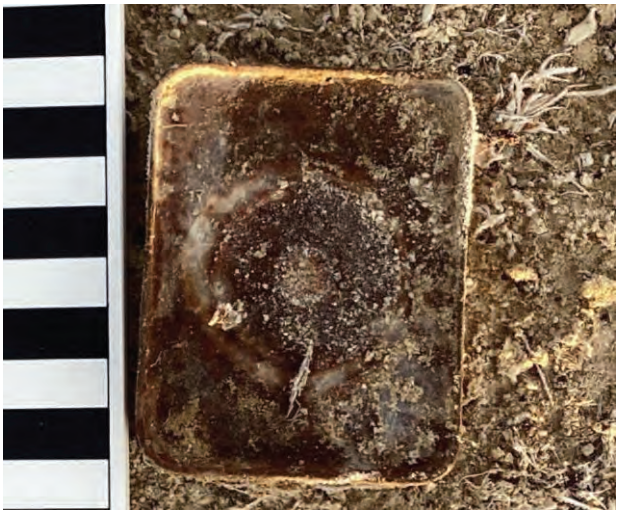
***Date of map:** January 27, 2023



* Required information

***Drawn by:** Marcel Young and Jonathan Perez, Michael Baker International ***Date of map:** January 27, 2023





Hole in top lid (Photo #0324)



Hole in top can - top view (Photo #0325)



Hole in top can – side view (Photo #0327)

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #:** AVLC-002H

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication**

- ***a. County** Los Angeles
- ***b. USGS 7.5' Quad** *Lancaster West, Calif.* **Date** 1958 **T** 8N; **R** 12W; SW ¼ **of** NW ¼ **of Sec** 33 S.B.B.M
- c. Address None City Lancaster Zip 93536
- d. UTM: Zone 11S, 393439mE/ 3845677 mN 2313 ft amsl
- e. Other Locational Data:
  The resource is located within Assessor's Parcel Number (APN) 3118-015-001, 88 feet south of West Avenue F between 20th Street West and 17th Street West. The site can be located from the intersection of West Avenue F and 20th Street West by foot, 733 feet away at a compass heading of 98 degrees. The UTM documents the approximate center point of the site.

***P3a. Description:** This historic site is a refuse deposit consisting of metal cans and fragmented glass. Scattered artifacts surround a locus which represents a single dumping event. The various crushed and fragmentary cans and glass fragments are moderately dispersed around the locus. The site is in poor condition with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located upon sandy terrain at the west edge of the Mojave Desert. The site boundary is approximately 46 feet (north–south) by 58 feet (east–west).

***P3b. Resource Attributes:** AH4. Privies/ Dumps/ Trash Scatter

***P4. Resources Present:** ☒ Site

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



P5b. Description of Photo:
Photo 1: Site overview facing north, 12/15/2022, Photo #0336

P6. Date Constructed/Age and Source: ☒ Historic

***P7. Owner and Address:**
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

***P8. Recorded by:**
Alexandra Navarro and Marcel Young
Michael Baker International
3760 Kilroy Airport Way, #270
Long Beach, CA 90806

***P9. Date Recorded:** 12/15/2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation**: Beherec, Marc A., Marcel Young, Maximilian van Rensselaer, and Alexandra Navarro. 2023. *Phase 1 Cultural Resources Assessment, Antelope Valley Logistics Center West Project, Los Angeles County, California.* Prepared by Michael Baker International for NorthPoint Development.

***Attachments:** ☒Location Map ☒Continuation Sheet ☒Archaeological Record ☒Sketch Map

ARCHAEOLOGICAL SITE RECORD

***A1. Dimensions: a. Length:** 14 m. **(**north-south**) b. Width:** 17.6 m. **(**east-west**)**
Method of Measurement: ☒ Other: Measured in Field Maps Application on iPad
Method of Determination: ☒ Artifacts
Reliability of Determination: ☒ High
Limitations: None.

A2. Depth: None. Method of Determination: Visual; site consists of surface dumping.

***A3. Human Remains:** ☒ Absent

***A4. Features**: None.

***A5. Cultural Constituents**:

One locus was observed, representing a single dumping event. Artifacts within the locus include five church key opened cans measuring 2-1/2 inches in diameter and 4-15/16 inches tall; three clear glass bottle necks with intact plastic screw caps; four clear glass bottle necks with metal screw caps; two clear glass bottle bases embossed with "Santa Fe Vintage C", circled "LM", "2", and "Refilling Prohibited"; and one brown glass ovoid base embossed "0-9", "83" and an oblique overlapping double C, "55", and "M820."

Artifacts scattered around the locus include five church key opened cans measuring 2-1/2 inches in diameter by 4-15/16 inches tall, and two crushed bimetal sanitary cans.

***A6. Were Specimens Collected?** ☒ No

***A7. Site Condition:** ☒ Poor Artifacts are deliberately broken through human activity and corroded and scattered by natural processes.

***A8. Nearest Water:** Unnamed non-flowing stream - 879 feet, 166 degrees south; Lower Amargosa Creek - 0.5 miles, due north

***A9. Elevation:** 2313 feet AMSL

A10. Environmental Setting**:** The site is located upon a flat valley floodplain in the high desert, soil is a fine sandy loam yellowish brown in color, vegetation is cattle saltbrush and rubber rabbitbrush, slope is flat, aspect is completely exposed, and visibility is 80%-90% due to sparse vegetation.

A11. Historical Information: This site location is proximal to the now-paved modern road. In the past, it was a dirt road first mapped in 1930 as Welds Road and in 1933 it is labeled Avenue F (USGS 1930, 1933). The cans, which include church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

***A12. Age:** ☒ 1914-1945 ☒ Post 1945

A13. Interpretations: The resource appears to be the result of roadside dumping, which began with the establishment of the road and continues to this day. The resource does not appear to be eligible for inclusion in either the NRHP or the CRHR.

A14. Remarks: The resource will be destroyed by the proposed project.

A15. References:

Rock, Jim. 1993. Can Chronology. Document on file, Michael Baker International.
USGS (United States Geological Survey). 1930. *Oban, Calif*,. 1:24,000 scale topographic quadrangle.
_____. 1933. *Oban, Calif.*, 1:24,000 scale topographic quadrangle.

A16. Photographs: See continuation sheet.

Original Media/Negatives Kept at: 3100 Zinfandel Dr., Suite 125, Rancho Cordova, CA 95670

***A17. Form Prepared by:** Marcel Young **Date:** 1/9/2023
Affiliation and Address: Michael Baker International, 3760 Kilroy Airport Way Suite 270, Long Beach, CA 90806

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

LOCATION MAP

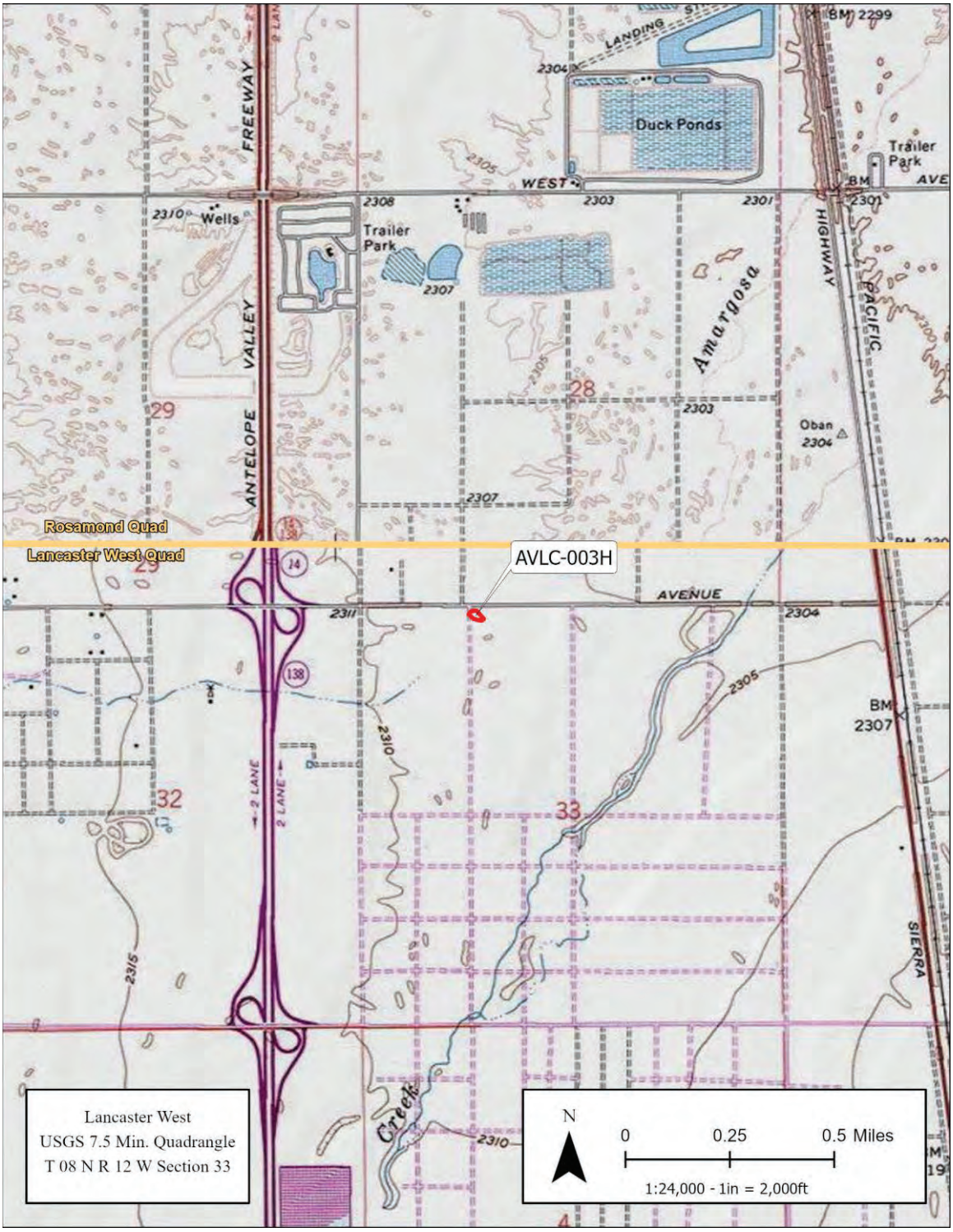
Primary #
HRI#
Trinomial

***Resource Name or #** AVLC-002H

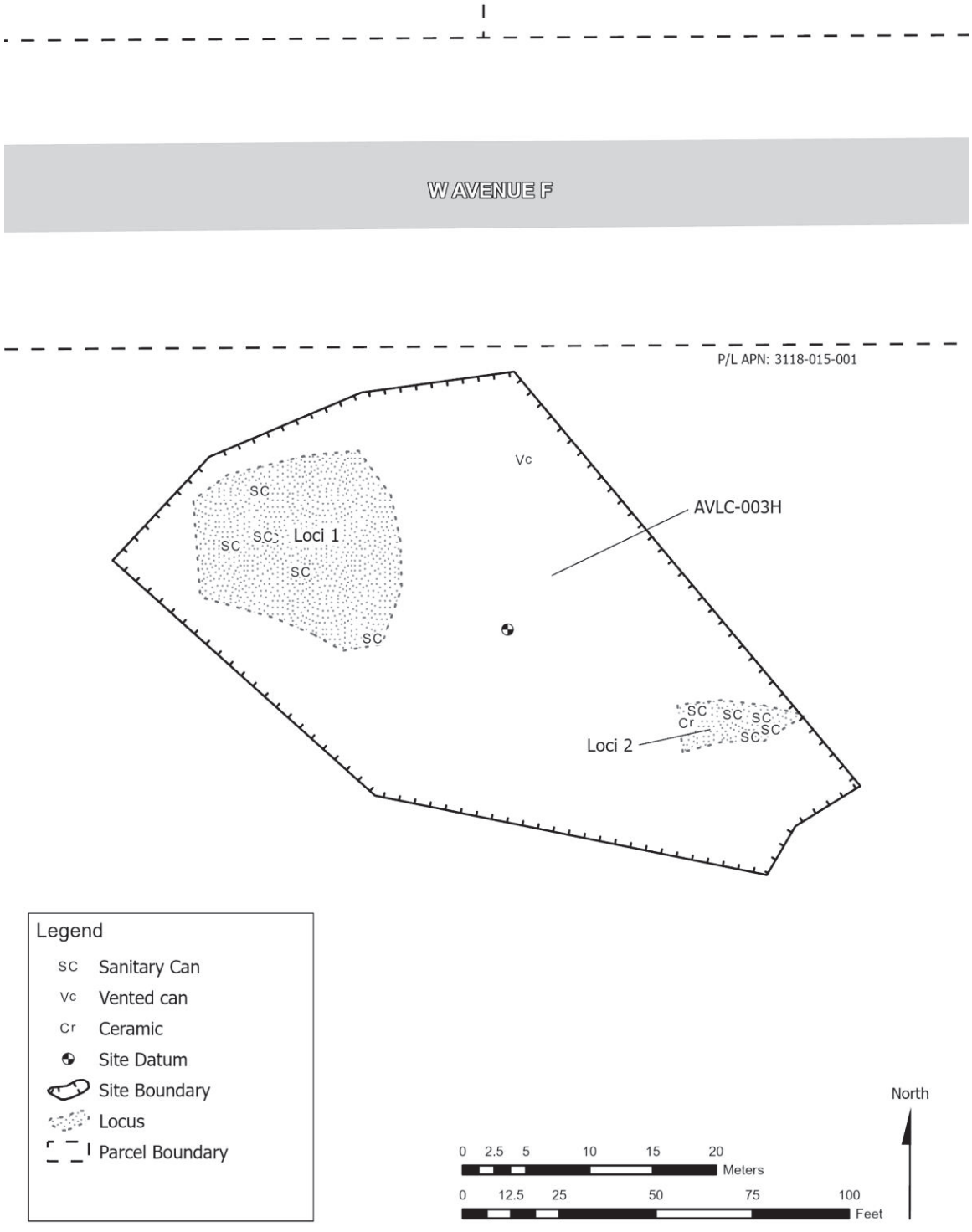
***Map Name:** *Lancaster West, Calif.*

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

***Date of map:** 1958

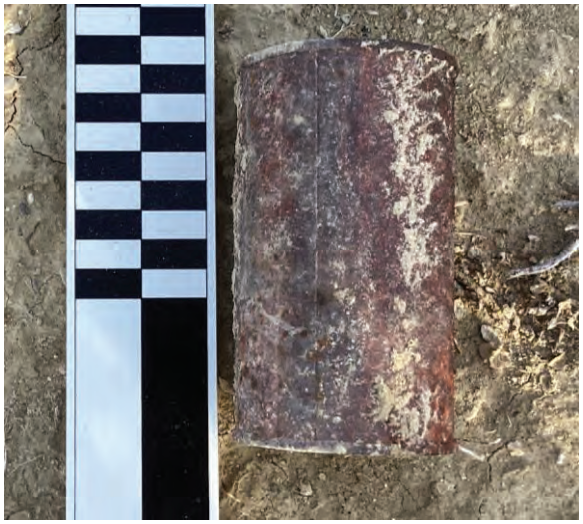


* Required information


W AVENUE F
P/L APN: 3118-015-001
Vc
SC
SC
SC
Loci 1
SC
SC
AVLC-003H
SC
Cr
SC
SC
SC
SC
Loci 2
Legend
SC Sanitary Can
Vc Vented can
Cr Ceramic
Site Datum
Site Boundary
Locus
Parcel Boundary
North
0 2.5 5 10 15 20
Meters
0 12.5 25 50 75 100
Feet



Church key opened can top view (Photo #0329)



Church key opened can side view (Photo #0330)



Brown glass bottle base (Photo #0331)



Clear glass bottle base (Photo #0332)

***Recorded by:** Alexandra Navarro and Marcel Young, Michael Baker International ***Date:** 12/15/2022 ☒ Continuation



Clear glass bottle neck with plastic cover twist top (Photo #0333)



Plastic bottle cover twist top (Photo #0334)



Clear glass bottle neck with metal cover twist tops (Ipad Photo #5)

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #:** AVLC-003H

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication**

***a. County** Los Angeles **and**

***b. USGS 7.5' Quad** *Lancaster West, Calif.* **Date** 1958 **T** 8N; **R** 12W; SW ¼ **of** NW ¼ **of Sec** 33 S.B.B.M

c. Address None City Lancaster Zip 93536

d. UTM: Zone 11S, 393680 m E / 3845662 m N

e. Other Locational Data:

The resource is located within Assessor's Parcel Number (APN) 3118-015-001, 100 feet south of West Avenue F between 17th Street West and Hildyke Street. The site can be located from the intersection of West Avenue F and 20th Street West by foot, 510 yards away at a compass heading of 94 degrees. The UTM coordinates were obtained from the approximate center of the site.

***P3a. Description:** This historic site consists of a refuse scatter of metal tin cans, glass, and miscellaneous unidentified metal. The artifacts are concentrated in two loci, each of which represents a single dumping event. The cans, crushed cans, glass, metal, and other modern refuse are moderately dispersed within the loci, and other artifacts are scattered around the loci. The site is in poor condition with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The site is located upon sandy terrain at the western edge of the Mojave Desert. The site boundary is approximately 132 feet (north–south) by 192 feet (east–west).

***P3b. Resource Attributes:** AH4. Privies/ Dumps/ Trash Scatter

***P4. Resources Present:** ☒ Site

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



P5b. Description of Photo:
Photo 1: Site overview facing north, 12/15/2022, Photo #0338

P6. Date Constructed/Age and Source: ☒ Historic

***P7. Owner and Address:**
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

***P8. Recorded by:**
Alexandra Navarro and Marcel Young
Michael Baker International
3760 Kilroy Airport Way, #270
Long Beach, CA 90806

***P9. Date Recorded:** 12/15/2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation**:

Beherec, Marc A., Marcel Young, Maximilian van Rensselaer, and Alexandra Navarro. 2023. *Phase 1 Cultural Resources Assessment, Antelope Valley Logistics Center West Project, Los Angeles County, California*. Prepared by Michael Baker International for Northpoint Ventures.

***Attachments:** ☒Location Map ☒Continuation Sheet ☒Archaeological Record ☒Sketch Map

***A1. Dimensions: a. Length:** 40.3 m. **(**north-south**) b. Width:** 58.5 m. **(**east-west**)**
Method of Measurement: ☒ Other: Measured in Field Maps Application on iPad
Method of Determination: ☒ Artifacts
Reliability of Determination: ☒ High
Limitations None.

A2. Depth: None Method of Determination: Visual; site consists of surface dumping.

***A3. Human Remains:** ☒ Absent

***A4. Features:** None.

***A5. Cultural Constituents**:
The site includes two loci, each of which is a moderately dense refuse deposit representing a single dumping event.

Locus 1 has its approximate midpoint at 393664 m E / 3845669 m N and measures 15.9 meters (north–south) by 16.4 meters (east–west). Artifacts within Locus 1 include two sanitary cans measuring 2-1/2 inches in diameter by 6 inches tall; two tuna cans measuring 3-3/8 inches in diameter; seven sanitary cans measuring 2-1/4 inches in diameter by 4 inches tall; 13 church key opened sanitary cans measuring 2-1/2 inches in diameter by 4-5/16 inches tall; four milk cans with vent hole tops measuring 2-1/4 inches in diameter by 2-3/8 inches tall; 17 sanitary cans measuring 3 inches in diameter by 4-3/8 inches tall; and one clear glass bottle base embossed with "Santa Fe Vintage 134 LM 3 Refilling prohibited" and measuring 2-3/8 inches in diameter.

Locus 2 has its approximate midpoint at 393698 mE / 3485655 m N and measures 4 meters (north–south) by 9.7 meters (east–west). Artifacts within Locus 2 include nine sanitary cans measuring 3 inches in diameter by 4-3/8 inches tall; miscellaneous glass fragments including plate, clear, and blue specimens; miscellaneous metal fragments; and two oblong metal oil cans with metal screw tops.

Artifacts were sparsely scattered around the two dump loci, including one metal can with a hole-in-top opening and a U-shaped metal handle, perforated with holes in its body, measuring 4-5/16 inches in diameter and 4-15/16 inches tall, and one sanitary can measuring 3 inches in diameter and 3-7/8 inches tall.

***A6. Were Specimens Collected?** ☒ No

***A7. Site Condition:** ☒ Poor Artifacts were deliberately broken through human activity and corroded and scattered by natural processes.

***A8. Nearest Water:** Unnamed ephemeral stream - 1,180 feet, 223 degrees southwest; Amargosa Creek - 0.47 miles, 109 degrees south-southeast

***A9. Elevation:** 2313 feet AMSL

A10. Environmental Setting**:** The site is located upon a flat valley floodplain in the high desert, soil is a fine sandy loam yellowish brown in color, vegetation is cattle saltbrush and rubber rabbitbrush, slope is flat, aspect is completely exposed, and visibility is 80%-90% due to sparse vegetation.

A11. Historical Information: This site location is proximal to the now-paved modern road. In the past, it was a dirt road first mapped in 1930 as Welds Road and in 1933 as Avenue F (USGS 1930, 1933). The cans, which include vent hole cans first made in 1900, quart oil cans first sold in 1933, and church key opened cans first produced in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

***A12. Age:** ☒ 1914-1945 ☒ Post 1945

A13. Interpretations: The resource appears to be the result of roadside dumping, which began with the establishment of the road and continues to this day. The resource does not appear to be eligible for inclusion in either the NRHP or the CRHR.

A14. Remarks: The resource will be destroyed by the proposed project.

A15. References:

Rock, Jim. 1993. Can Chronology. Document on file, Michael Baker International.
USGS (United States Geological Survey). 1930. *Oban, Calif,*. 1:24,000 scale topographic quadrangle.
_____. 1933. Oban, Calif., 1:24,000 scale topographic quadrangle.

A16. Photographs: See continuation sheet.

Original Media/Negatives Kept at: 3100 Zinfandel Dr., Suite 125 Rancho Cordova CA 95670

***A17. Form Prepared by:** Marcel Young **Date:** 1/11/2023
Affiliation and Address: Michael Baker International, 3760 Kilroy Airport Way Suite 270, Long Beach, CA 90806

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

LOCATION MAP

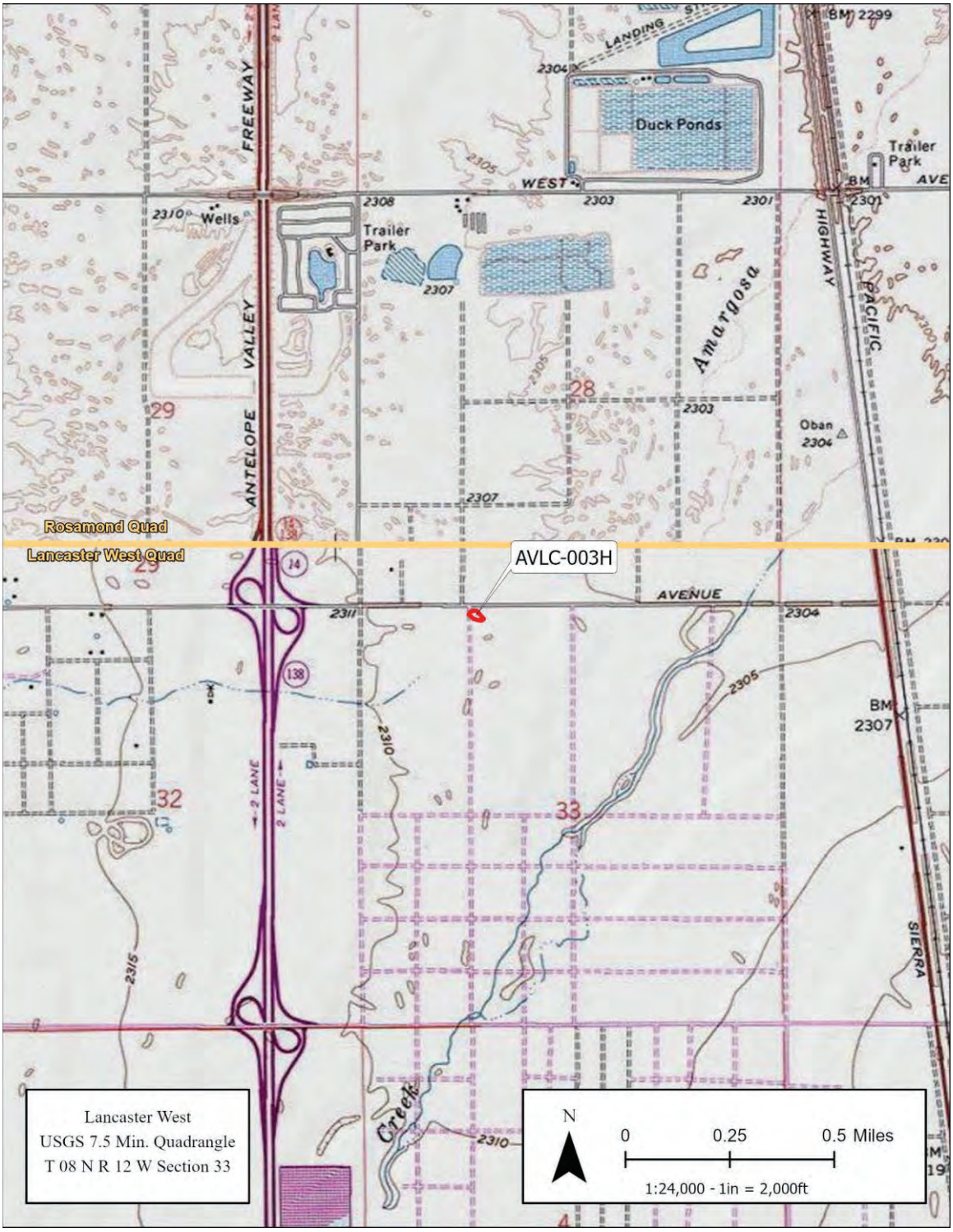
Primary #
HRI#
Trinomial

***Resource Name or #:** AVLC-003H

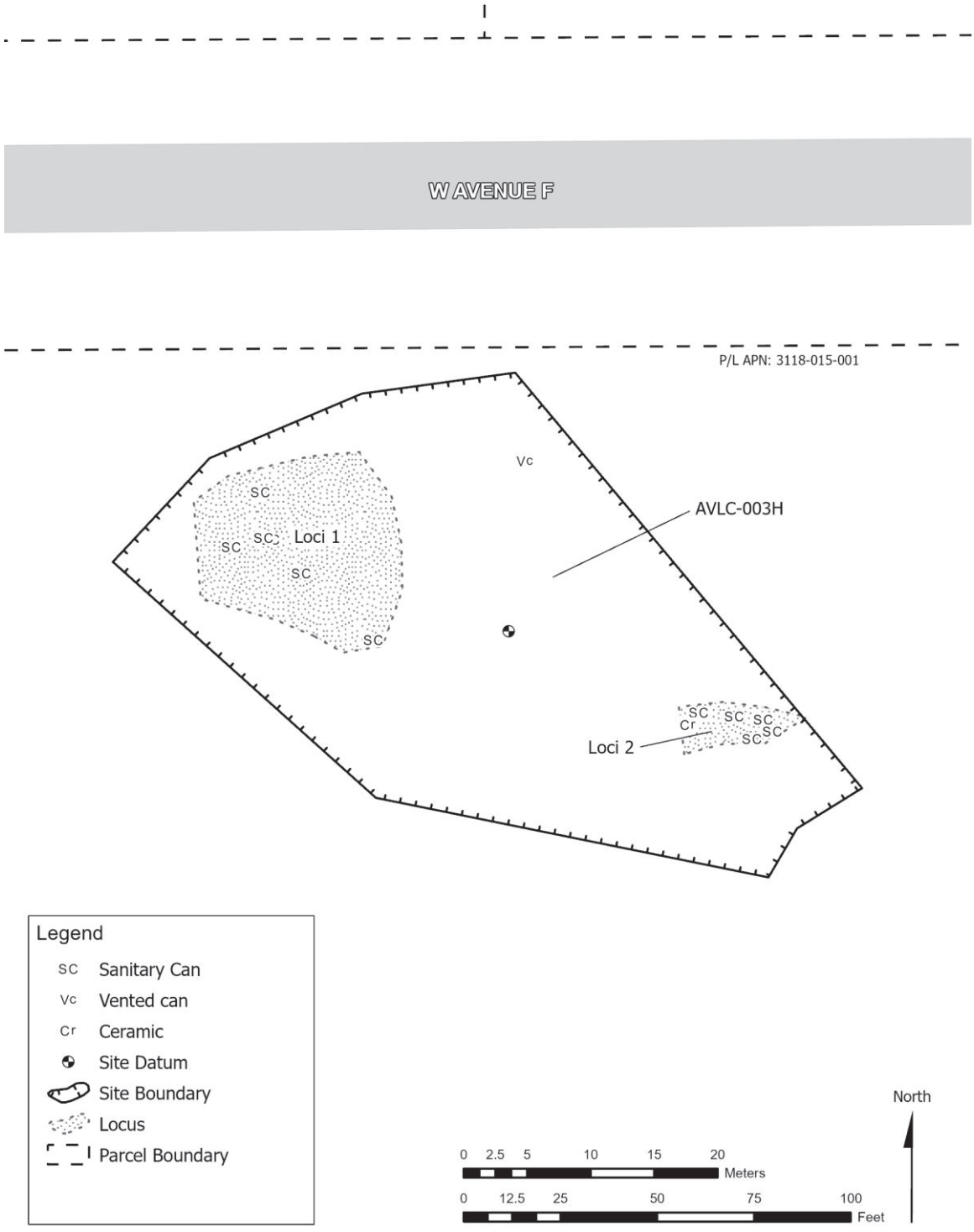
***Map Name:** *Lancaster West, Calif.*

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

***Date of map:** 2/7/2023



* Required information

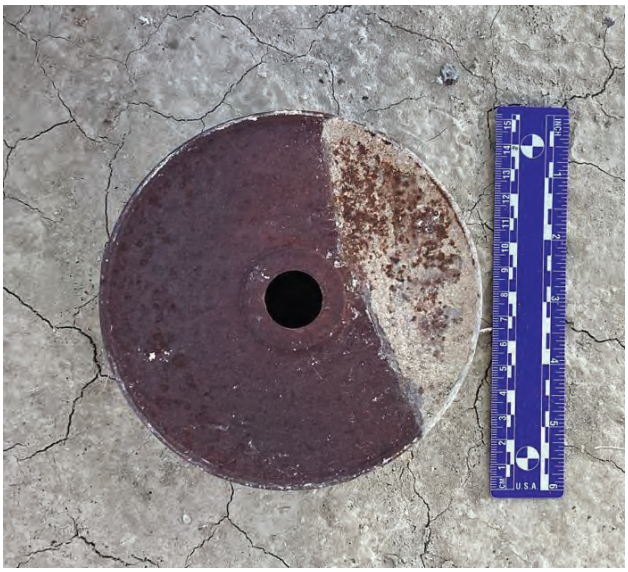

W AVENUE F
P/L APN: 3118-015-001
Vc
SC
SC
SC
Loci 1
SC
SC
AVLC-003H
SC
SC
Cr
SC
SC
SC
Loci 2
Legend
SC Sanitary Can
Vc Vented can
Cr Ceramic
Site Datum
Site Boundary
Locus
Parcel Boundary
North
0 2.5 5 10 15 20
Meters
0 12.5 25 50 75 100
Feet



Metal can with perforated holes top side and handle (Photo #0348)



Metal can with perforated holes crimped seam (Photo #0348)



Metal can with perforated holes bottom view (Photo #0348)



Clear glass bottle base “Santa Fe Vintage” (Photo #0341)



Milk can with vent hole in top (Photo #0340)



Key wind meat tin (Photo #0340)



Oblong oil can (Photo #0347)

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #:** AVLC-004H

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication**

- ***a. County** Los Angeles
- ***b. USGS 7.5' Quad** *Lancaster West, Calif.* **Date** 1958 **T** 8N; **R** 12W; SW ¼ **of** NW ¼ **of Sec** 33 S.B.B.M
- c. Address None City Lancaster Zip 93536
- d. UTM: Zone 11S, 393795mE/ 3845657 mN
- e. Other Locational Data: 2313 ft amsl

The resource is located within Assessor's Parcel Number (APN) 3118-015-001, 100 feet south of West Avenue F between 20th Street West and 15th Street West. The site can be located from the intersection of West Avenue F and 20th Street West by foot, 633 yards away at a compass heading of 93 degrees east. The UTM documents the approximate center point of the site.

***P3a. Description:** This historic archaeological site is a refuse scatter consisting of metal containers, glass, and various metal fragments and implements. The site is in very poor condition, with artifacts deliberately broken through human activity and corroded and scattered by natural processes. The resource is located upon sandy terrain at the west edge of the Mojave Desert. The site boundary measures approximately 64 feet (north–south) by 75 feet (east–west).

***P3b. Resource Attributes:** AH4. Privies/ Dumps/ Trash Scatter

***P4. Resources Present:** ☒ Site

P5a. Photograph or Drawing



P5b. Description of Photo:
Photo 1: Site overview facing north, 12/15/2022, Photo #0350

P6. Date Constructed/Age and Source:
☒ Historic

***P7. Owner and Address:**
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

***P8. Recorded by:**
Alexandra Navarro and Marcel Young
Michael Baker International
3760 Kilroy Airport Way, # 270
Long Beach, CA 90806

***P9. Date Recorded:**
12/15/2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation:**
Beherec, Marc A., Marcel Young, Maximilian van Rensselaer, and Alexandra Navarro. 2023. *Phase 1 Cultural Resources Assessment, Antelope Valley Logistics Center West Project, Los Angeles County, California.* Prepared by Michael Baker International for Northpoint Ventures.

***Attachments:** ☒Location Map ☒Continuation Sheet ☒Archaeological Record ☒Sketch Map

***A1. Dimensions: a. Length:** 19.5 m. **(**north-south**)** **b. Width:** 22.7 m. **(**east-west**)**
Method of Measurement: ☒ Other: Measured in Field Maps Application on iPad
Method of Determination: ☒ Artifacts
Reliability of Determination: ☒ High
Limitations: None.

A2. Depth: None. Method of Determination: Visual; site consists of surface dumping.

***A3. Human Remains:** ☒ Absent

***A4. Features**: None.

***A5. Cultural Constituents:**

There are many fragments of historic and modern glass that make up the site consisting of milk, aqua, amethyst, clear, and brown colors. Fifty-six metal, glass, and ceramic artifacts were documented, as listed below:

Metal artifacts include one metal hose line; one friction can lid; three pails; three church key opened sanitary cans measuring 2-11/16 inches in diameter by 4-3/4 inches tall; one cone top short neck container; five vent hole milk cans measuring 3 inches in diameter and 4-1/4 inches tall; five vent hole milk cans measuring 2-1/2 inches in diameter and 2-7/16 inches tall; 30 crown bottle caps; one tobacco tin with hinged top; one wrought iron cut bolt measuring 2-7/16 inches long; one wrought iron cut nail measuring 3-1/2 inches long; and one cylindrical container with lid measuring 1-7/8 inches in diameter and 2-1/4 inches tall.

Glass artifacts include two dark brown bottle bases; one amethyst neck with brandy finish; one aqua neck with brandy finish; and one 3-inch-diameter clear/pink hue bottle base embossed “Best Foods Registered”.

One ceramic artifact, a fragmented china bowl with maker’s mark “Edwin M Knowles China Co. 144” and rim embellishments, was also observed.

***A6. Were Specimens Collected?** ☒ No

***A7. Site Condition:** ☒ Poor: Artifacts deliberately broken through human activity and corroded and scattered by natural processes.

***A8. Nearest Water:** Unnamed ephemeral stream - 483 yards, 235 degrees southwest; Amargosa Creek - 712 yards, 112 degrees southeast

***A9. Elevation:** 2313 feet AMSL

A10. Environmental Setting: The site is located upon a flat valley floodplain in the high desert, soil is a fine sandy loam yellowish brown in color, vegetation is cattle saltbrush and rubber rabbitbrush, slope is flat, aspect is completely exposed, and visibility is 80%-90% due to sparse vegetation.

A11. Historical Information: This site location is proximal to the now-paved modern road. In the past, it was a dirt road first mapped in 1930 as Welds Road and in 1933 it is labeled Avenue F (USGS 1930, 1933). Edwin M. Knowles manufactured ceramics between 1900 and 1963 (Gonzalez 2023). The cans, which include church key opened cans first produced in 1935 and a cone top can first sold in 1935, are all consistent with having been deposited in the middle twentieth century (Rock 1993).

***A12. Age:** ☒ 1914-1945 ☒ Post 1945

A13. Interpretations: The resource appears to be the result of roadside dumping, which began with the establishment of the road and continues to this day.

A14. Remarks: The resource will be destroyed by the proposed project.

A15. References:

Gonzalez, Mark. 2023. “The Edwin M. Knowles China Co.” Accessed February 3, 2023. http://www.laurelhollowpark.net/emk/emk.html.
Rock, Jim. 1993. Can Chronology. Document on file, Michael Baker International.
USGS (United States Geological Survey). 1930. *Oban, Calif,*. 1:24,000 scale topographic quadrangle.
_____. 1933. *Oban, Calif.,* 1:24,000 scale topographic quadrangle.

A16. Photographs: See continuation sheet.

Original Media/Negatives Kept at: 3100 Zinfandel Dr. Suite 125, Rancho Cordova CA 95670

***A17. Form Prepared by:** Marcel Young **Date:** 1/11/2023
Affiliation and Address: Michael Baker International, 3760 Kilroy Airport Way, Suite 270, Long Beach, CA 90806

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

LOCATION MAP

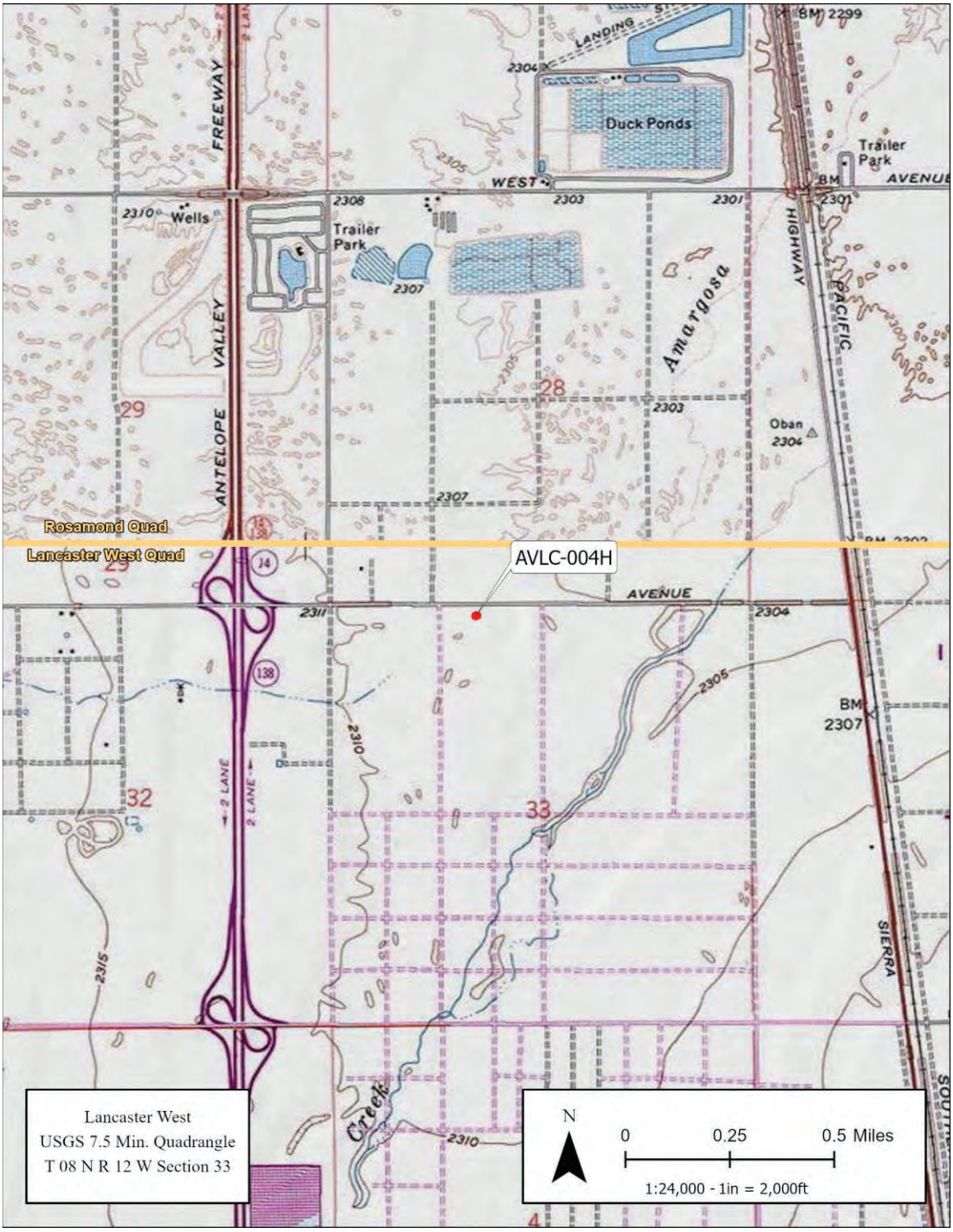
Primary #
HRI#
Trinomial

***Resource Name or #:** AVLC-004H

***Map Name:** *Lancaster West, Calif.*

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

***Date of map:** 1956



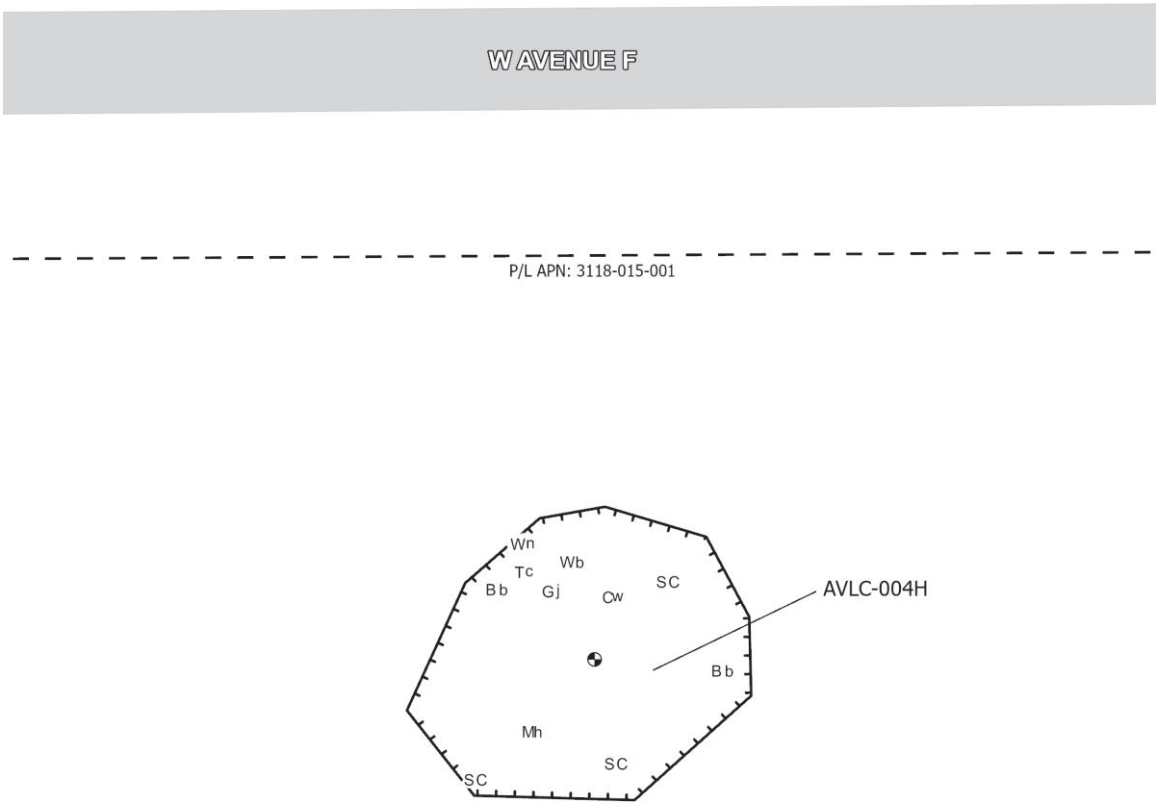
* Required information

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

SKETCH MAP

Primary #
HRI#
Trinomial

***Resource Name or #** AVLC-004H
***Drawn by:** Jonathan Perez
***Date of map:** 2/7/2023



NOTE: Include bar scale and north arrow.



Metal hose line (Photo #0362)



Aqua and amethyst necks with brandy finish (Photo #0352)



Clear/pink hue bottle base (Photo #0353)



China bowl fragments (Photo #0366)



China bowl maker's mark visible (Photo #0366)



China bowl rim embellishment visible (Photo #0366)



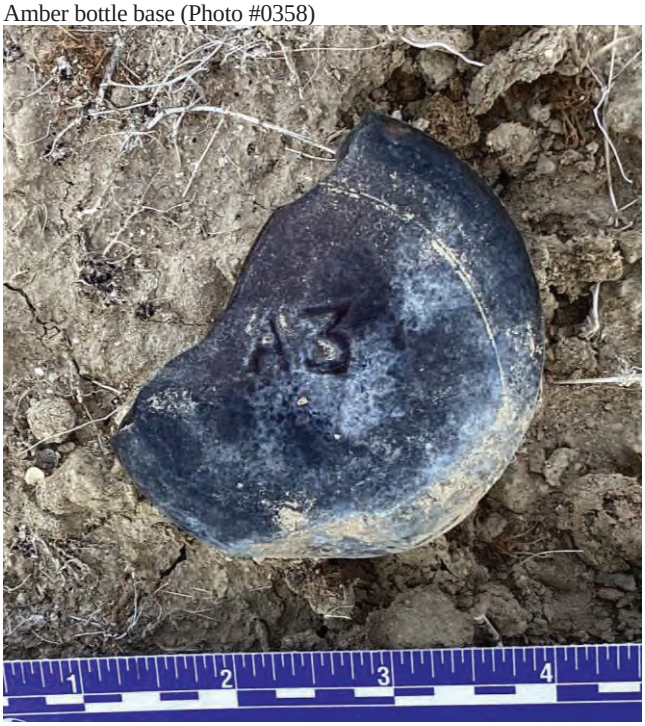
China bowl rim embellishment visible (Photo #0366)



Amber bottle base (Photo #0358)



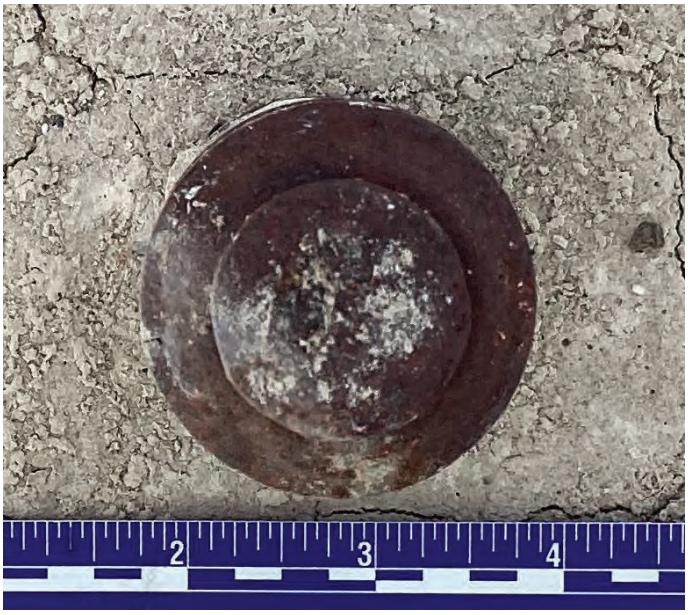
Amber bottle base with side marking “WF & S 85” (Photo #0359)



Amber bottle base “A3” maker’s mark 2-8/16″ d (Photo #0363)



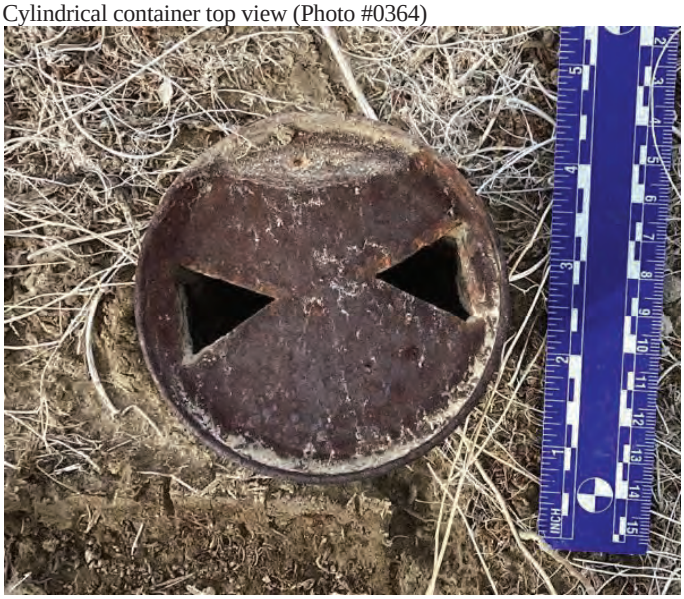
Tobacco tin with hinged top (Photo #0360)



Cylindrical container top view (Photo #0364)



Cylindrical container side view (Photo #0364)



Church key opened sanitary can top view (Ipad Photo #15)



Church key opened sanitary can side view (Ipad Photo #14)



Wrought iron cut bolt top view (Photo #0368)



Wrought iron cut bolt side view (Photo #0368)



Wrought iron cut nail side view (Photo #0369)



Wrought iron cut nail top view (Photo #0369)

***Recorded by:** Alexandra Navarro and Marcel Young, Michael Baker International ***Date:** 12/15/2022 ☒Continuation



Glass fragments: amethyst, aqua, milk, clear, and blue; metal crown bottle caps, metal fragments (Photo #0361)

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

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #:** AVLC-005H

P1. Other Identifier: None

***P2. Location:** ☒ **Not for Publication**

***a. County** Los Angeles

***b. USGS 7.5' Quad** *Lancaster West, Calif.* **Date** 1958 **T** 8N; **R** 12W; SW ¼ **of** NW ¼ **of Sec** 33 S.B.B.M

c. Address None City Lancaster Zip 93536

d. UTM: Zone 11S, 393847 mE / 3845680 mN

e. Other Locational Data: 2313 ft. AMSL

The resource is located within Assessor's Parcel Number (APN) 3118-015-001, 43 feet south of West Avenue F between Hildyke Street and 15th Street West. The site can be located from the intersection of West Avenue F and 20th Street West by foot, 688 yards away at a compass heading of 91 degrees east. The UTM point above was recorded at the approximate center of the site.

***P3a. Description:** This historic site is a refuse scatter consisting of metal cans and glass fragments. The site is in poor condition and in a highly deteriorated state. The resource is located upon sandy terrain at the west edge of the Mojave Desert. The site boundary is approximately 33 feet (north–south) by 31 feet (east–west).

***P3b. Resource Attributes:** AH4. Privies/ Dumps/ Trash Scatter

***P4. Resources Present:** ☒ Site

P5a. Photograph or Drawing



P5b. Description of Photo:
Photo 1: Site overview facing north, 12/16/2022, Photo #0371

P6. Date Constructed/Age and Source:
☒ Historic

***P7. Owner and Address:**
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

***P8. Recorded by:**
Alexandra Navarro and Marcel Young
Michael Baker International
3760 Kilroy Airport Way, Suite 270
Long Beach, CA 90806

***P9. Date Recorded:** 12/16/2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation**:
Beherec, Marc A., Marcel Young, Maximilian van Rensselaer, and Alexandra Navarro. 2023. *Phase 1 Cultural Resources Assessment, Antelope Valley Logistics Center West Project, Los Angeles County, California.* Prepared by Michael Baker International for Northpoint Ventures.

***Attachments:** ☒Location Map ☒Continuation Sheet ☒Archaeological Record ☒Sketch Map

***A1. Dimensions: a. Length:** 9.9 m. **(**north-south**)** **b. Width:** 9.5 m. **(**east-west**)**
Method of Measurement: ☒ Other: Measured in Field Maps Application on iPad
Method of Determination: ☒ Artifacts
Reliability of Determination: ☒ High
Limitations: ☒ Other: Site was documented via pedestrian survey with no subsurface testing/exploration.

A2. Depth: None. Method of Determination: Visual; site consists of surface dumping.

***A3. Human Remains:** ☒ Absent

***A4. Features**: None observed

***A5. Cultural Constituents**: There are miscellaneous glass fragments within the site consisting of amethyst, clear, and plate. Twenty-five diagnostic artifacts which characterize this resource were documented, as listed below.

Metal artifacts include one aerosol can measuring 2-1/4 inches in diameter and 5-9/16 inches tall; twelve solder-dot vent hole cans measuring 3 inches in diameter and 3-15/16 inches tall; and one mason jar lid.

Glass artifacts include two bottle bases embossed on the base, "3" / "O" inside a square; two clear bottle necks with screw-top finishes; one clear mason jar fragment; one clear bottle base with stippling and "Dixie" maker's mark measuring 2-7/16 inches in diameter; one opaque clear single thread screw-top finish; and one clear bottle base embossed with a Hazel Atlas maker's mark and "Italian Swiss Refilling Prohibited COLONY" with a 2-7/16 inch diameter.

Ceramic artifacts include three fragments from the same white and blue dinner plate showing a blue swallow and pink flowers on its top, and the partial maker's mark "[break]CHFIE[break]" on its base.

***A6. Were Specimens Collected?** ☒ No

***A7. Site Condition:** ☒ Poor: Site is disturbed by human activity. All bottles have been deliberately broken.

***A8. Nearest Water:** Unnamed ephemeral stream, 542 yards, 236 degrees southwest; Amargosa Creek, 675 yards, 114 degrees southeast

***A9. Elevation:** 2313 feet AMSL

A10. Environmental Setting: The site is located upon a flat valley floodplain in the high desert, soil is a fine sandy loam yellowish brown in color, vegetation is cattle saltbrush and rubber rabbitbrush, slope is flat, aspect is completely exposed, and visibility is 80%-90% due to sparse vegetation.

A11. Historical Information: This site location is proximal to the now-paved modern road. In the past, it was a dirt road first mapped in 1930 as Welds Road and in 1933 as Avenue F (USGS 1930, 1933). The Hazel Atlas maker's mark observed on one bottle base was in use between 1920 and 1964 (Toulouse 1971:239), and the Italian Swiss Colony was a popular vintner established in the nineteenth century, which became a national brand after World War II (Keppel 1987). O in a square was the maker's mark of the Owens Bottle Company between 1911 and 1929 (Toulouse 1971:393). The cans include vent hole cans first made in 1900 and an aerosol can first marketed in 1945. All the artifacts are consistent with having been deposited in the middle twentieth century (Rock 1993).

***A12. Age:** ☒ 1914-1945 ☒ Post 1945

A13. Interpretations: The resource appears to be the result of roadside dumping, which began with the establishment of the road and continues to this day. The resource does not appear to be eligible for inclusion in either the NRHP or the CRHR.

A14. Remarks: The resource will be destroyed by the proposed project.

A15. References:

Keppel, Bruce. 1987. "New Buyer Found for Old Italian Swiss Colony Winery." *Los Angeles Times*, July 31, 1987. https://www.latimes.com/archives/la-xpm-1987-07-31-fi-302-story.html
Rock, Jim. 1993. Can Chronology. Document on file, Michael Baker International.
Toulouse, Julian Harrison. 1971. *Bottle Makers and Their Marks.* New York: Thomas Nelson, Inc.
USGS (United States Geological Survey). 1930. *Oban, Calif,*. 1:24,000 scale topographic quadrangle.
_____. 1933. *Oban, Calif.*, 1:24,000 scale topographic quadrangle.

A16. Photographs: See continuation sheet.

Original Media/Negatives Kept at: 3100 Zinfandel Dr., Suite 125, Rancho Cordova CA 95670

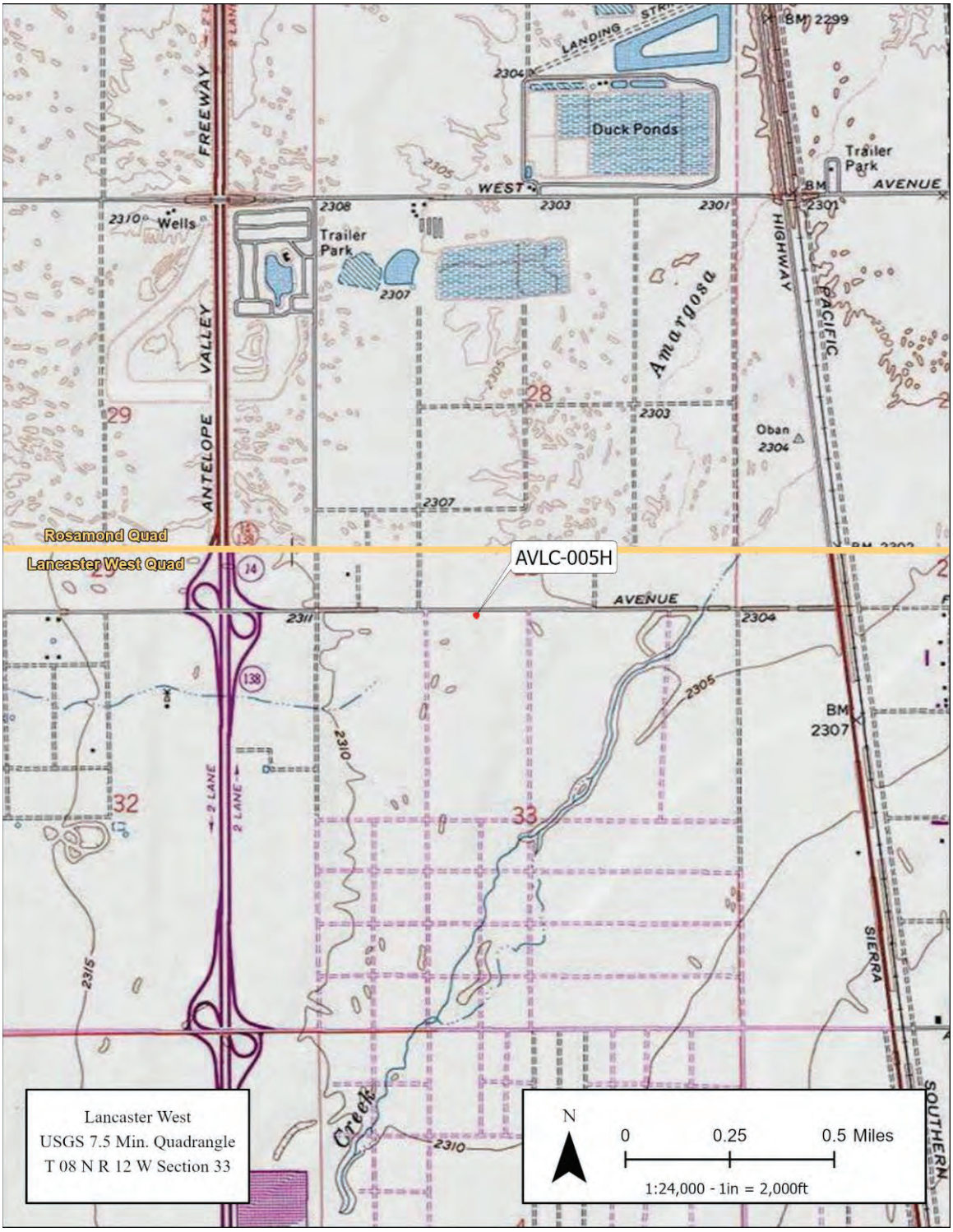
***A17. Form Prepared by:** Marcel Young **Date:** 1/12/2023
Affiliation and Address: Michael Baker International, 3760 Kilroy Airport Way Suite 270, Long Beach, CA 90806

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

LOCATION MAP

Primary #
HRI#
Trinomial

Page 3 **of** 8 ***Resource Name or #:** AVLC-005H
***Map Name:** *Lancaster West, Calif.* ***Scale:** 1:24,000 ***Date of map:** X



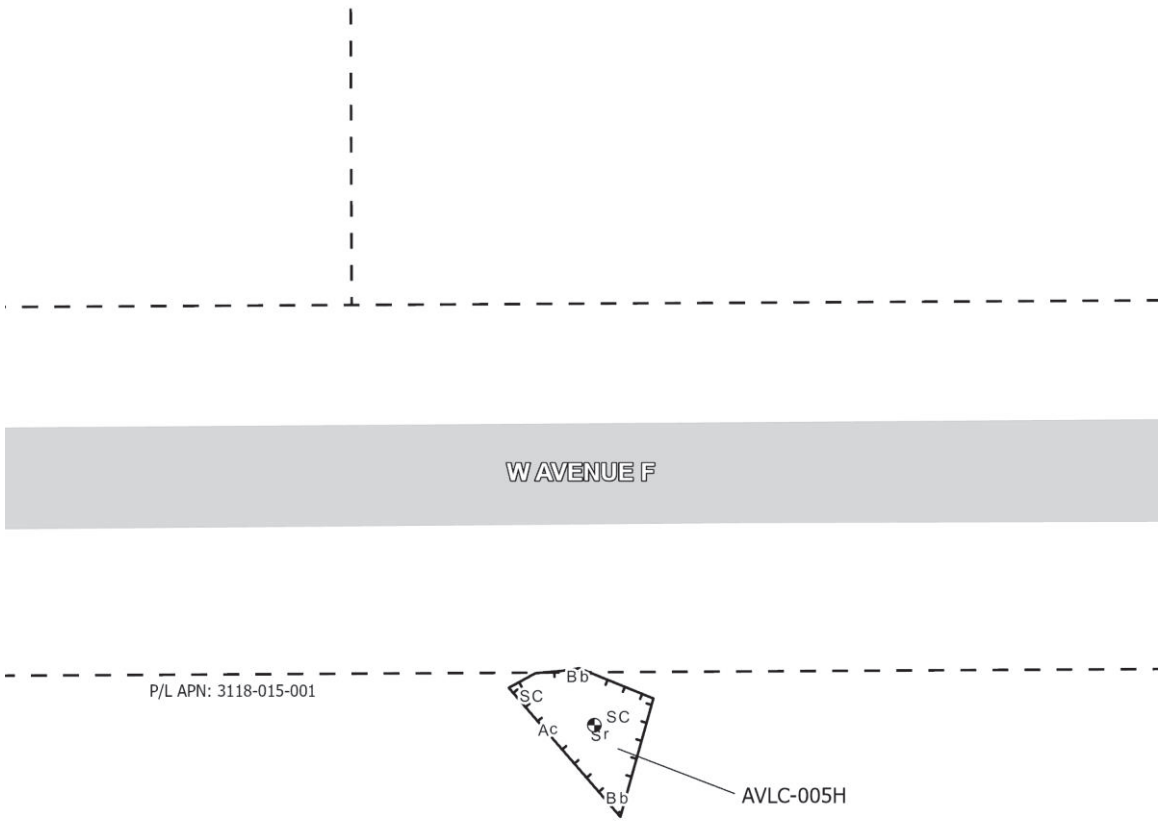
* Required information

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

SKETCH MAP

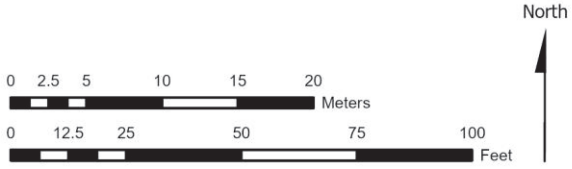
Primary #
HRI#
Trinomial

Page 4 **of** 8 ***Resource Name or #:** AVLC-005H
***Drawn by:** Marcel Young and Jonathan Perez, Michael Baker International ***Date of map:** X



Legend

- Ac Aerosol can
- Bb Bottle base
- SC Sanitary can
- Sr Saucer
- Site Datum
- Site Boundary
- Parcel Boundary



NOTE: Include bar scale and north arrow.



Aerosol can side view (Photo #0374)



Aerosol can top view (Photo #0375)



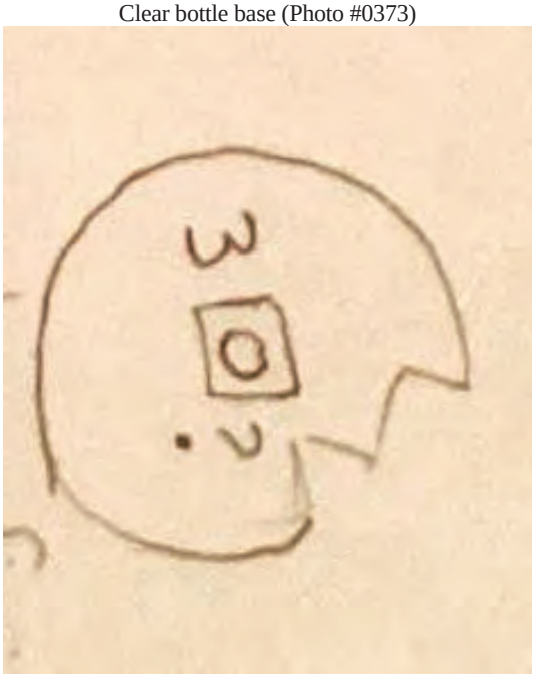
Solder-dot vent hole can side view (Photo #0374)



Solder-dot vent hole can top view (Photo #0375)



Clear bottle base (Photo #0373)



Clear bottle base field sketch of maker's mark (Photo #0373 is a reference image)



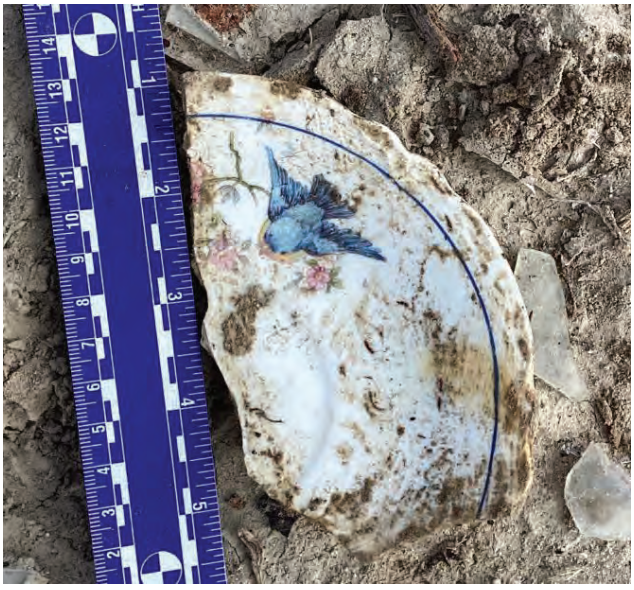
Clear bottle base (Photo #0373)



Clear bottle base field sketch of maker's mark (Photo #0373 is a reference image)



Clear bottle base with "DIXIE" maker's mark (Photo #0373)



White and blue dinner plate fragment showing a blue swallow and pink flowers (Ipad Photo #7)



White and blue dinner plate fragment showing a partial maker's mark "[break]CHFIE[break]" (Ipad Photo #8)

Michael Baker
INTERNATIONAL

February 9, 2023

Jac Lac
Western Region Development Manager
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150

RE: PALEONTOLOGICAL RESOURCES IDENTIFICATION REPORT FOR THE ANTELOPE VALLEY LOGISTICS CENTER WEST PROJECT, LOS ANGELES COUNTY, CALIFORNIA

Dear Mr. Lac:

NorthPoint Development proposes the construction of Antelope Valley Logistics Center West (AVLC-West) located in unincorporated Los Angeles County, California (project). The AVLC-West project site is located within the eastern portion of the Town and Country Antelope Valley Area Plan. The project would include construction of two speculative industrial short-term storage warehouse buildings. The AVLC-West project is subject to California Environmental Quality Act (CEQA) and National Environmental Protection Act (NEPA) environmental review. The County is the lead local agency. The United States Army Corps of Engineers is the federal lead agency for the required Clean Water Act Section 404 permit.

In support of the project, Michael Baker International completed a Natural History Museum of Los Angeles County (NHMLAC) records search; literature review; and paleontological sensitivity assessment. These efforts were completed to determine whether the project could result in significant impacts to paleontological resources as described by Appendix G (part V) of the CEQA Guidelines. Methods, results, and recommendations are summarized below.

PROJECT DESCRIPTION

The project would include construction of two speculative industrial short-term storage warehouse buildings on approximately 121 acres, in addition to associated improvements to adjacent Avenue F, Avenue F-8, and 20th Street West, and construction of a new public road along the eastern boundary of the project area. Each building would have a footprint of approximately 1,004,000 square feet, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces. The project proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town and Country Antelope Valley Area Plan.

To provide access to the project site, partial improvements would be made to Avenue F along the southerly property boundary, 20th Street West along the westerly property boundary, and Avenue F-8 along the northerly boundary, and full improvements of a new proposed public road would be made on the east side of the property. Additional ancillary improvements such as landscaping and utility work would also be required.

Primary components of the proposed project are discussed in further detail below.

PROPOSED WAREHOUSE BUILDING

As noted above, each industrial short-term warehouse building footprint would consist of approximately 1,004,000 square feet, which includes approximately 40,000 square feet of office space. These two buildings would occupy the majority of the project site with an approximate floor area ratio (FAR) of 38 percent. Each building would have a maximum height of 49 feet. Each building would be constructed with tilt-up concrete wall panels and painted with variations of earth tone colors with either a hybrid wood and steel roof structure or a full steel metal deck roofing system. Each warehouse building would also include a total of 82 truck loading docks on the northern and southern sides of the building.

PROPOSED WAREHOUSE OPERATIONS

Each proposed building is being designed and built on a speculative basis with the intended function as a short-term storage warehouse, operating up to 24 hours a day, seven days a week, and employing up to approximately 1,000 people (total of 2,000). The facility would receive products from vendors and other warehouses. Products would be stored in different storage types (mainly traditional pallet racking systems and shelving), providing the capability to fulfill customer orders and sort them to downstream transportation connections. These functions do not require ground-disturbing activities.

ROADWAY IMPROVEMENTS

There will be widening of existing and construction of new roads adjacent to the site.

- **Avenue F:** The project site includes half street improvements along the south side of existing Avenue F, from the intersection of 20th Street West to a new public road, a total of approximately 2,200 linear feet. Avenue F is currently an approximately 20-foot-wide asphalt surface with drainage ditches on both sides. The improvements will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the south side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **20th Street West:** The project also includes half street construction of the west side of 20th Street West extending from the intersection of Avenue F south to Avenue F-8, approximately 2,650 linear feet. This corridor is currently a dirt surface. The improvements

will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the west side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **Avenue F-8:** The project also includes half street construction of the north side of Avenue F-8 extending from 20th Street West to the east to a new public road, approximately 2,200 linear feet. The corridor is currently a dirt surface. The improvements will provide for two lanes of traffic with curb and gutter, sidewalk, and right-of-way dedication on the east side. This will allow for the construction of the road without requiring right-of-way from the adjacent property owners.

- **New Proposed Public Road (along the east property boundary):** The project also includes full street construction of a new north–south road from Avenue F to Avenue F-8. There is not an existing road in this location. The improvements will provide the ultimate width for the road consisting of two lanes of traffic with curb and gutter and sidewalk on both sides of the road and full right-of-way dedication.

PARKING

Trailer parking would be provided to the north and south of each warehouse building. Employee and visitor passenger vehicle parking would be provided on the west and east sides of each warehouse building. To accommodate the parking needs associated with the warehouse and office uses for each building, 222 trailer parking stalls and 861 passenger car parking stalls (including Americans with Disabilities Act [ADA] compliant stalls) are proposed. Bicycle parking and storage is also proposed on-site with 51 spots for each building. Bicycle racks will be distributed evenly at all employee entrances to the building. The proposed parking would require grading and paving of these portions of the project area.

UTILITIES

On-site utilities would include electric, water, and sewer. The project proposes to connect to the existing public water main at the intersection of Avenue H and 20th Street West and extend the water main north along 20th Street West to the site. The proposed domestic water connection for each building will occur along 20th Street West. The domestic water line would extend east and branch off north and south to each building, and connect at the center of each building. Additionally, a fire water line will extend around the perimeter of each building per Los Angeles County Fire Department regulations.

A 48-inch and 78-inch sanitary sewer main exists within existing easements along 20th Street West. A sanitary sewer lateral will connect each building to the sanitary sewer main.

Electric will be extended from the existing overhead distribution lines running along 10th Street West.

LANDSCAPING

Landscaping consists of trees, shrubs, ground cover, mulch, and decomposed granite. Foundation plantings are indicated adjacent to building entrances. Trees are indicated throughout the site. Islands provide a landscaped area of 2 percent of parking lots.

DRAINAGE

On-site surface water would be collected at the proposed storm drains throughout the site and conveyed through the new stormwater pipes to the proposed stormwater detention basins located in the northern and southern portions of the site. The project site also has a floodplain volume mitigation pond at its southern portion to detain the water during potential flood events.

MAXIMUM DEPTH OF EXCAVATION

Depth of excavation for the project will vary across the project site. Maximum depth of the ground leveling overexcavation is anticipated to reach approximately 19 feet below the present ground surface.

PROJECT AREA

The project area is identified as the maximum area to be impacted by project ground-disturbing activities. The project buildings and most of the other project improvements will be located on the western approximate three-quarters of Assessor's Parcel Number (APN) 3118-015-001. The project area also includes the public roads, which will include related improvements, including 20th Street West extending from the intersection of Avenue F south to Avenue F-8; Avenue F, from the intersection of 20th Street West to a new public road; and Avenue F-8 extending from 20th Street West to the east to a new public road. Therefore, the project area includes the maximum extent of ground disturbance associated with the development of the project, i.e., the western approximate three-quarters of APN 3118-015-001 and adjacent public roads (see **Attachment 1**). The vertical project area is 20 feet below the ground surface to encompass the maximum depth of excavation anticipated for the project.

GEOLOGIC SETTING

California is divided into 11 geomorphic provinces, each defined by unique geologic and geomorphic characteristics. The project lies within the western Mojave Desert Geomorphic Province, a broad region of isolated mountains separated by expanses of desert plains (CGS 2002). The project area is situated in a geographic sub-region of the southwestern Mojave Desert known as Antelope Valley. The region is commonly referred to as the "High Desert" due to its approximate elevation of 2,900 feet above sea level. The Mojave Desert is bounded to the west by the Tehachapi Mountains and to the south by the San Gabriel and San Bernardino Mountains. The project area and surrounding area are relatively flat.

The western Mojave Desert contains sedimentary (lake and river sourced) and volcanic rocks, ranging from Cenozoic to Quaternary deposition (Dibblee 1967; DeCourten 2010) and metamorphic and igneous rocks of Mesozoic and earlier ages (Hernandez 2010; Dibblee and Minch 2008). The Mojave block is a tectonic region in the western Mojave Desert defined by the nearby San Andreas and Garlock faults, with several accessory faults trending northwest that were active throughout the Quaternary period (Dibblee 1967).

The geology of the project area has been mapped by Dibblee and Minch (2008) at a scale of 1:62,500 and by Hernandez (2010) at a scale of 1:24,000. The coarser scale map (Dibblee and Minch 2008) indicates that the entire project area is entirely underlain by Quaternary alluvium (Qa), while the finer scale map (Hernandez 2010) shows the project area consists of Quaternary alluvium (Qa), Quaternary alluvial fan deposits (Qf), and Quaternary younger playa deposits (Qyp). Quaternary alluvium consists of unconsolidated to weakly consolidated fluvial gravel, sand, and silt. Quaternary alluvial fan deposits consist of unconsolidated to weakly consolidated, poorly sorted rubble, gravel, sand, and silt forming active alluvial fans. Both of these alluvial deposits are Holocene in age, a period that overlaps with archaeological concern, though Holocene deposits older than 5,000 years in age can possibly contain significant fossil resources (SVP 2010). Quaternary younger playa deposits in this region are described as moderate to well-consolidated clay with some silt and range from Holocene to late Pleistocene in age and possibly contain significant fossil resources.

The project area is located near the hypothesized high shoreline of Lake Thompson at the end of the Pleistocene epoch. At its height in the Pleistocene, Lake Thompson covered approximately 950 square kilometers within the Antelope Valley, and included within its area what are now two smaller dry lakes, Rogers Lake and Rosamond Lake. Today, these dry lakes only retain water for short periods during the rainy season. At its highest, the project area would have been within the lake (Dibblee and Minch 2008; Orme 2004).

The soil throughout the project area has been mapped as Pond-Oban complex (NRCS 2023). The Pond series consists of poor to moderately well-drained, fine-loamy, mixed soils that occur on nearly level to undulating alluvial fans formed from alluvium from granitic rock (NRCS 2023; USDA 2003). The Oban series consists of moderately well-drained, fine soils that occur on nearly level valley troughs and basins at elevations between 2,300 to 2,500 feet (NRCS 2023; USDA 2015). Like the Pond series, the Oban series formed in alluvium derived from granitic rock sources (USDA 2015).

The project area is within the Western Mojave Basins ecoregion, which includes alluvial fans and plains resulting from the drainage of nearby valleys and mountain ranges. This ecoregion receives little summer rainfall, and the vegetation is dominated by creosote bush and white bursage. Soil temperatures in this region are thermic and soil moisture is aridic (Griffith et al. 2016).

REGULATORY ENVIRONMENT

California Environmental Quality Act

Paleontological resources are the fossilized remains, imprints, or traces of past life preserved in the geologic record. These resources include bones, teeth, soft tissues, shells, plant material, microscopic organisms, footprints, trackways, and burrows. Fossils record the natural history of life on Earth. Despite the frequency of sedimentary rock in the geologic record and the number of organisms that have lived throughout the planet's history, only a minimal number of remains have been preserved in the fossil record.

Paleontological resources are afforded protection under Appendix G (part V) of the CEQA Guidelines. Appendix G details that a project would significantly impact paleontological resources if it directly or indirectly destroys unique paleontological resources or a unique geologic feature.

California Public Resources Code Section 5097.5

Public Resources Code Section 5097.5 prohibits excavation or removal of any "vertebrate paleontological site or any other archaeological, paleontological or historical feature, situated on public lands, except with express permission of the public agency having jurisdiction over such lands." Public lands are defined to include lands owned by or under the jurisdiction of the state or any city, county, district, authority, or public corporation, or any agency thereof. Section 5097.5 states that any unauthorized disturbance or removal of archaeological, historical, or paleontological materials or sites located on public lands is a misdemeanor. Penalties for this removal or damage of paleontological resources are set forth in California Penal Code Section 622.5.

PALEONTOLOGICAL RESOURCES IDENTIFICATION METHODS

PALEONTOLOGICAL RECORDS SEARCHES

Michael Baker International staff received a paleontology collection records search for locality and specimen data from the NHMLAC on November 27, 2022 (**Attachment 2**). The records search showed no previously identified fossil localities within the project area. However, several fossil localities from similar sedimentary deposits to those mapped within the project area occurred nearby. The closest fossil locality is LACM VP 7853, a rich fossil locality approximately 2 miles east of the project area. Additional localities are documented in **Table 1** and include Holocene and Pleistocene-aged mammal, reptile, and fish fossils.

Table 1 – Previously Recorded Paleontological Resources from NHMLAC Records Search

Collection Number	Taxa	Formation	Intervals	Depth	Distance to Project Site
LACM VP 7884	Camel (*Camelops hesternus*)	Unknown formation	Pleistocene	4 feet below ground	<3 miles SE

		(fluvial brown clayey silt)		surface (bgs)	
LACM VP 7853	Rabbit (*Sylvagus*), camel family (Camelidae), antelope squirrel (*Ammospermophilus*), kangaroo rat (*Dipodymus*), pocket mouse (*Perognatus*), pack rat (*Neotoma*), deer mouse (*Peromyscus*), vole family (Microtinae), iguana (*Dipsosaurus*), pocket gopher (*Thomomys*), spiny lizard (*Sceloprus*), side blotched lizard (*Uta*), colubrid snakes (*Trimorphodon, Masticophis, Phyllorynchus*), night lizard (*Xantusia)*, western alligator lizard (*Elgaria*), toothy skinks (*Plestiodon*), whiptail lizard (*Aspidocelis*), spiny lizards (Phrynosomatidae), smelt (Osmeridae)	Unknown formation (sandy loess under a dune deposit strand, sandy siltstone, siltstone to clayey siltstone)	Pleistocene	3–11 feet bgs	~2 miles E
LACM VP 5942-5950	Kingsnake (*Lampropeltis*), Lizard (Lacertilia), leopard lizard (*Gambelia*); snake (Ophidia), gopher snake (*Pituophis*); rabbit (*Lagomorpha*), rodent (Rodentia), Pocket gopher (*Thomomys*), pocket mouse (*Chaetodippus*), kangaroo rat (*Dipodomys*); birds (Aves)	Unknown formation	Holocene	0-9 feet bgs	~21 miles SE

LACM VP 7891	Camel (*Hemiauchenia*)	Unknown formation	Pleistocene	21 feet bgs	~16 miles NW
LACM IP 445	Invertebrates (unspecified)	Unknown formation (upper Pleistocene lacustrine deposits)	Pleistocene	Unknown	~19 miles NE

Michael Baker International conducted supplemental paleontological records searches within 3 miles of the project area using the following websites:

- University of California Museum of Paleontology Locality Search (UCMP 2023)
- San Diego Natural History Museum Collection Database (SDNHM 2023)
- The Paleobiology Database (PBDB 2023)
- FAUNMAP (FAUNMAP 2023)

While the databases showed no previously identified fossil localities within the project area, one locality reported by the PBDB is within 2 miles of the project area (**Table 2**). Upon further examination of this locality it was discovered that the reported geologic formation (Juncal Formation) does not appear on the local geologic maps (Dibblee and Minch 2008; Hernandez 2010) and the source document for this locality (Squires 1988) reports fossil localities for Lockwood Valley in Ventura County (approximately 50 miles west of the project). It is possible that the GPS coordinates for this PBDB record were entered incorrectly.

Table 2 – Previously Recorded Paleontological Resources from Online Databases

Collection	Taxa	Formation	Intervals
PBDB	Bivalves (clams, cockles), gastropods (turban snails, tower snails, cone snails)	Juncal Formation	Eocene

PALEONTOLOGICAL RESOURCES SENSITIVITY ANALYSIS

The NHMLAC paleontological records search and fossil locality searches of online databases (FAUNMAP, PBDB, SDNHM, and UCMP) did not identify any paleontological resources within the project area. However, two localities have been found at shallow depths and within 3 miles of the project area from similar rock formations to those underlying the project, including one locality with several mammal, reptile, and fish fossils. Per mitigation impact guidelines set forth by the Society of Vertebrate Paleontology (SVP 2010), due to the fossil sensitivity of the rock formations present within the project area (younger playa deposits of Holocene to late Pleistocene age), the project has a high potential to disturb paleontological resources within undisturbed bedrock.

SUMMARY OF FINDINGS AND RECOMMENDATIONS

Full-time paleontological monitoring is recommended during ground disturbance in undisturbed geologic contexts which have the potential to contain significant paleontological resources. Ground disturbance refers to activities that would impact subsurface geologic deposits, such as grading, excavation, boring, etc. Activities taking place in current topsoil or within previously disturbed fill sediments, e.g., clearing and grubbing, or at the current topsoil surface, e.g., building renovations, do not require paleontological monitoring. The following mitigation measures (MM) are recommended to be implemented such that in the event of any discovery of unknown paleontological resources during earthwork, impacts would be **less than significant**.

MM PALEO-1: The contractor must retain a Society of Vertebrate Paleontology (SVP) qualified paleontologist to provide or supervise a paleontological sensitivity training to all personnel planned to be involved with earth-moving activities, prior to the beginning of ground-disturbing activities. The training session will focus on how to identify paleontological localities such as fossils that may be encountered and the procedures to follow if identified.

MM PALEO-2: Prior to grading or excavation in sedimentary rock material other than topsoil, the contractor shall retain an SVP-qualified paleontologist to monitor these activities. In the event that fossils are discovered during grading at any depth, the on-site construction supervisor shall be notified and shall redirect work away from the location of the discovery. The recommendations of the paleontologist shall be implemented with respect to the evaluation and recovery of fossils, after which the on-site construction supervisor shall be notified and shall direct work to continue in the location of the fossil discovery.

MM PALEO-3: If the fossils are determined to be significant, then the SVP-qualified paleontologist shall prepare and implement a data recovery plan. The plan shall include the following measures at a minimum:

- The paleontologist shall ensure that all significant fossils collected are cleaned, identified, catalogued, and permanently curated with an appropriate institution with a research interest in the materials (which may include the Natural History Museum of Los Angeles County);
- The paleontologist shall ensure that specialty studies are completed, as appropriate, for any significant fossil collected; and
- The paleontologist shall ensure that curation of fossils is completed in consultation with the County. A letter of acceptance from the curation institution shall be submitted to the County.

MM PALEO-4: If any paleontological resources are encountered during construction or the course of any ground-disturbance activities, all such activities shall halt immediately. At this time, the applicant shall notify the County and consult with a qualified paleontologist to assess the significance of the find. The assessment will follow SVP standards as delineated in the *Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources* (2010). If any find is determined to be significant, appropriate avoidance measures recommended by the consultant and approved by the County must be followed unless avoidance is determined to be infeasible by the County. If avoidance is infeasible, other appropriate measures (e.g., data recovery, excavation) shall be instituted. The recommendations of the qualified paleontologist shall be implemented with respect to the evaluation and recovery of fossils, after which the on-site construction supervisor shall be notified and shall direct work to continue in the location of the fossil discovery. Any fossils recovered during mitigation shall be cleaned, identified, catalogued, and permanently curated with an accredited and permanent scientific institution with a research interest in the materials.

If no fossils have been recovered after 50 percent of excavation has been completed, full-time monitoring may be modified to weekly spot-check monitoring at the discretion of the qualified paleontologist. The qualified paleontologist may recommend to the client to reduce paleontological monitoring based on observations of specific site conditions during initial monitoring (e.g., if the geologic setting precludes the occurrence of fossils). The recommendation to reduce or discontinue paleontological monitoring in the project area shall be based on the professional opinion of the qualified paleontologist regarding the potential for fossils to be present after a reasonable extent of the geology and stratigraphy has been evaluated.

A qualified professional paleontologist is a professional with a graduate degree in paleontology, geology, or related field, with demonstrated experience in the vertebrate, invertebrate, or botanical paleontology of California, as well as at least one year of full-time professional experience or equivalent specialized training in paleontological research (i.e., the identification of fossil deposits, application of paleontological field and laboratory procedures and techniques, and curation of fossil specimens), and at least four months of supervised field and analytic experience in general North American paleontology as defined by the SVP.

PREPARER QUALIFICATIONS

This memorandum was prepared by Michael Baker International Senior Paleontologist Peter Kloess, PhD, and Senior Archaeologist Marc Beherec, PhD, RPA. The memo was reviewed for quality control by Senior Cultural Resources Manager Margo Nayyar.

Peter A. Kloess, PhD, Principal Investigator—Paleontology is a principal investigator and paleontologist with over 20 years of experience in paleontology, with 7 years in paleontology mitigation. His experience includes private and public consultation, field monitoring, excavation, and laboratory research on projects across the western United States, predominantly in California. He has consulting experience with a range of projects, including construction, transportation, utility, transmission, monitoring, and surveys, as well as expertise recovering a diversity of fossils from project sites, such as marine invertebrates, microfossils, plants, small mammals, and birds, large marine and terrestrial mammals, and dinosaurs. He also has extensive experience in paleontological museum collections and lab settings. He has worked on and co-led scientific excavations of large mammals and dinosaurs in California, Utah, New Mexico, and Montana. Mr. Kloess has served as a lab preparator and assistant curator for paleontology museums in California and Montana, where his duties included manual preparation of specimens, casting, jacketing, public outreach, cataloging, and curation. He meets the Society of Vertebrate Paleontology's standards for paleontological Principal Investigator.

Marc A. Beherec, PhD, RPA, Senior Archaeologist, has more than 20 years of experience in prehistoric and historical archaeology and cultural resources management. His experience includes writing technical reports, including NEPA, CEQA, and National Historic Preservation Act (NHPA) compliance documents. He has supervised and managed all phases of archaeological fieldwork, including survey, Phase II testing and evaluations and Phase III data recovery, and monitoring at sites throughout Southern California. Dr. Beherec meets the Secretary of the Interior's Professional Qualification Standards for prehistory and historical archaeology.

Margo Nayyar, MA, Department Manager, is a senior architectural historian with 12 years of cultural management experience in California, Nevada, Arizona, Idaho, Texas, and Mississippi. Her experience includes built environment surveys, evaluation of historic-era resources using guidelines outlined in the National and California Registers, and preparation of cultural resources technical studies pursuant to CEQA and Section 106 of the NHPA, including identification studies, finding of effect documents, memorandum of agreements, programmatic agreements, and Historic American Buildings Survey/Historic American Engineering Record/Historic American Landscapes Survey mitigation documentation. She prepares cultural resources sections for CEQA environmental documents, including infill checklists, initial studies, and environmental impact reports, as well as NEPA environmental documents, including environmental impact statements and environmental assessments. She also specializes in municipal preservation planning, historic preservation ordinance updates, Native American consultation, and provision of Certified Local Government training to interested local governments. She develops Survey 123 and Esri Collector applications for large-scale historic resources surveys, and authors NRHP nomination packets. Ms.

Nayyar meets the Secretary of the Interior's Professional Qualification Standards for history and architectural history.

Sincerely,





Marc Beherec, PhD, RPA
Senior Archaeologist

Peter Kloess, PhD
Senior Paleontologist

Attachments:

Attachment 1 – Figures

Attachment 2 – NHMLAC Records Search

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Attachment 1

Figures



PN: 192704

Project Area

Michael Baker INTERNATIONAL

N

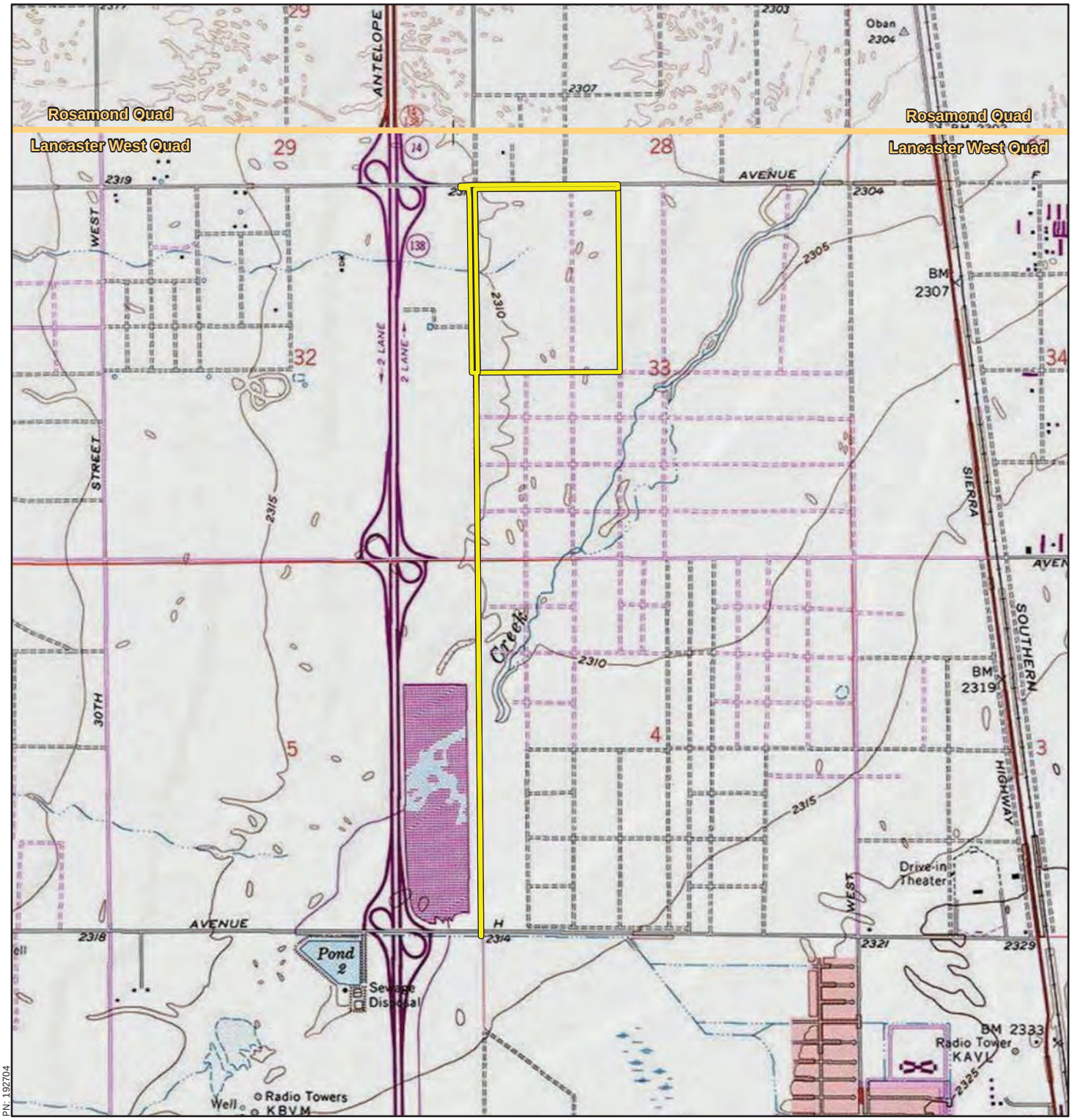
0 2.5 5 10 Miles

Source: Esri, ArcGIS Online, National Geographic World Map: *Lancaster, California*

ANTELOPE VALLEY LOGISTICS CENTER WEST
LANCASTER, CA

Regional Vicinity

Figure 1



PN: 192704

Project Area

Michael Baker INTERNATIONAL

N

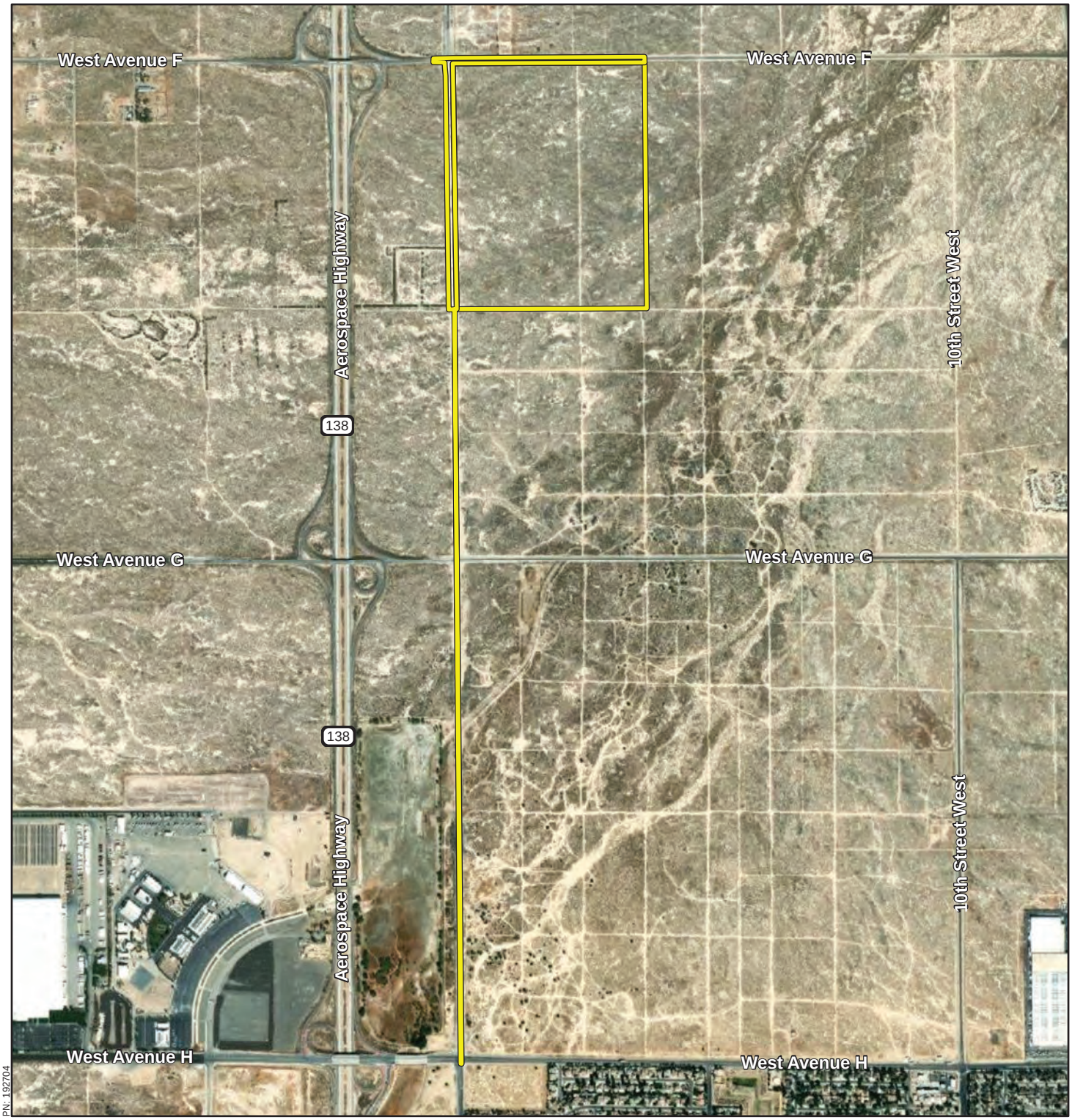
0 0.13 0.25 0.5 Miles

Source: Esri, ArcGIS Online, USGS 7.5-Minute topographic quadrangle maps: *Lancaster, California*

ANTELOPE VALLEY LOGISTICS CENTER WEST
LANCASTER, CA

Project Vicinity

Figure 2



Project Area

Michael Baker INTERNATIONAL

N

0 500 1,000 2,000 Feet

Source: Esri, ArcGIS Online, 2021 Nearmap Imagery: *Lancaster, California*

ANTELOPE VALLEY LOGISTICS CENTER WEST
LANCASTER, CA

Project Area

Figure 3

Attachment 2

Natural History Museum of Los Angeles County Records Search Results

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007
tel 213.763.DINO
www.nhm.org

NATURAL HISTORY MUSEUM
LOS ANGELES COUNTY

Research & Collections

e-mail: paleorecords@nhm.org

November 27, 2022

Michael Baker International
Attn: Max vanRensselaer

re: Paleontological resources for the Antelope Valley Logistics Center West Project

Dear Max:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Antelope Valley Logistics Center West project area as outlined on the portion of the Lancaster West USGS topographic quadrangle map that you sent to me via e-mail on November 10, 2022. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 7884	E of the SE corner of the intersection of East 3rd Street & East Avenue H-13	Unknown formation (Pleistocene; fluvial brown clayey silt)	Camel (*Camelops hesternus*)	4 feet bgs
LACM VP 7853	Waste Management of North America Lancaster Landfill	Unknown formation (Pleistocene; sandy loess under a dune deposit strand, sandy siltstone, siltstone to clayey siltstone)	Rabbit (*Sylvagus*), camel family (Camelidae), antelope squirrel (*Ammospermophilus*), kangaroo rat (*Dipodymus*), pocket mouse (*Perognathus*), pack rat (*Neotoma*), deer mouse (*Peromyscus*), vole family (Microtinae), iguana (*Dipsosaurus*), pocket gopher (*Thomomys*), spiny lizard (*Sceloporus*), side blotched lizard (*Uta*), colubrid snakes (*Trimorphodon, Masticophis, Phyllorhynchus*), night lizard (*Xantusia*), western alligator lizard (*Elgaria*), toothy skinks	3-11 feet bgs

			(*Plestiodon*), whiptail lizard (*Aspidocelis*), spiny lizards (Phrynosomatidae), smelt (Osmeridae)	
LACM VP 5942-5950	Along Avenue S from Palmdale to Lake Los Angeles	Unknown formation (Holocene)	Kingsnake (*Lampropeltis*), Lizard (Lacertilia), leopard lizard (*Gambelia*); snake (Ophidia), gopher snake (*Pituophis*); rabbit (*Lagomorpha*), rodent (Rodentia), Pocket gopher (*Thomomys*), pocket mouse (*Chaetodippus*), kangaroo rat (*Dipodomys*); birds (Aves)	0-9 feet bgs
LACM VP 7891	near the California Aqueduct between the Tehachapi Mountains & the Rosamond Hills north of Willow Springs	Unknown formation (Pleistocene)	Camel (*Hemiauchenia*)	21 feet bgs
LACM IP 445	Lake Rogers; Edwards Air Force Base	Unknown formation (upper Pleistocene lacustrine deposits)	Invertebrates (unspecified)	Unknown

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,



Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

AMY J. BODEK, AICP
Director,
Regional Planning

DENNIS SLAVIN
Chief Deputy Director,
Regional Planning

April 6, 2023

Jairo Avila, Tribal Historic and Cultural Preservation Officer
Fernandeño Tataviam Band of Mission Indians
1019 Second Street
San Fernando CA, 91340

RE: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of the Proposed Project pursuant to Public Resources Code (PRC) §21080.3.1.

The Los Angeles County Department of Regional Planning is issuing this formal notification of the proposed project. Below please find a description of the proposed project, a map showing the project location, and our contact information along with the name of our point of contact, pursuant to PRC §21080.3.1(d).

Proposed Project: Antelope Valley Logistics Center West
Project No. PRJ2022-002897- (5)
Conditional Use Permit No. RPPL2022013992

Project Description: The proposed project would include construction of two distribution warehouses on approximately 121 acres. The new distribution centers would consist of two (2) approximately 1,007,536 square-foot building footprints, which includes approximately 40,000 square feet of office space for each building. Each building will have dedicated 164 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces. The project proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town & County Antelope Valley Area Plan. The project would be constructed in a single phase. Grading of the site is planned with about 646,000 cubic yards of cut and 649,600 cubic yards of fill material with a net import of 3,600 cubic yards.

Project Location: Southeast corner of Avenue F and 20th Street West
APN 3118-015-001

Lead Agency Contact Information:
Richard Claghorn
North County Development Services Section
Department of Regional Planning
320 W. Temple Street, Room G10
Los Angeles, CA 90012
Tel: (213) 974-6443
Email: rclaghorn@planning.lacounty.gov

Pursuant to PRC §21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the Department of Regional Planning. Written request must be submitted to the contact information listed above.

Sincerely,
DEPARTMENT OF REGIONAL PLANNING
Amy J. Bodek, AICP
Director



Richard Claghorn
Principal Planner
North County Development Services Section

Encl: Map of Project Location

SD:RC

AMY J. BODEK, AICP
Director,
Regional Planning

DENNIS SLAVIN
Chief Deputy Director,
Regional Planning

April 6, 2023

Gabrieleno Tongva
San Gabriel Band of Mission Indians
Anthony Morales, Chief
P.O. Box 693
San Gabriel, CA 91778

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Sincerely,
DEPARTMENT OF REGIONAL PLANNING
Amy J. Bodek, AICP
Director



Richard Claghorn
Principal Planner
North County Development Services Section

Encl: Map of Project Location

SD:RC

AMY J. BODEK, AICP
Director,
Regional Planning

DENNIS SLAVIN
Chief Deputy Director,
Regional Planning

April 6, 2023

San Manuel Band of Mission Indians
Attn: Lee Clauss
26569 Community Center Drive
Highland, CA 92346

RE: Tribal Cultural Resources under the California Environmental Quality Act, AB 52 (Gatto, 2014). Formal Notification of the Proposed Project pursuant to Public Resources Code (PRC) §21080.3.1.

The Los Angeles County Department of Regional Planning is issuing this formal notification of the proposed project. Below please find a description of the proposed project, a map showing the project location, and our contact information along with the name of our point of contact, pursuant to PRC §21080.3.1(d).

Proposed Project: Antelope Valley Logistics Center West
Project No. PRJ2022-002897- (5)
Conditional Use Permit No. RPPL2022013992

Project Description: The proposed project would include construction of two distribution warehouses on approximately 121 acres. The new distribution centers would consist of two (2) approximately 1,007,536 square-foot building footprints, which includes approximately 40,000 square feet of office space for each building. Each building will have dedicated 164 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces. The project proposes to enhance the local economy and municipal revenue, and furnish local employment opportunities for residents, consistent with the goals of the Town & County Antelope Valley Area Plan. The project would be constructed in a single phase. Grading of the site is planned with about 646,000 cubic yards of cut and 649,600 cubic yards of fill material with a net import of 3,600 cubic yards.

Project Location: Southeast corner of Avenue F and 20th Street West
APN 3118-015-001

Lead Agency Contact Information:
Richard Claghorn
North County Development Services Section
Department of Regional Planning
320 W. Temple Street, Room G10
Los Angeles, CA 90012
Tel: (213) 974-6443
Email: rclaghorn@planning.lacounty.gov

Pursuant to PRC §21080.3.1(b), you have 30 days from the receipt of this letter to request consultation, in writing, with the Department of Regional Planning. Written request must be submitted to the contact information listed above.

Sincerely,
DEPARTMENT OF REGIONAL PLANNING
Amy J. Bodek, AICP
Director

Richard Claghorn
Principal Planner
North County Development Services Section

Encl: Map of Project Location

SD:RC

APPENDIX D
Geotechnical Investigation

June 23, 2022
Kleinfelder Project No. 20230661.001A

Mr. Jack Lac
NorthPoint Development
12977 North Outer 40 Road, Suite 203
St. Louis, Missouri 63141

SUBJECT: Feasibility-Level Geotechnical Investigation
DRAFT Antelope LAC 234
Lancaster Area of Los Angeles County, California

Dear Mr. Lac:

Kleinfelder is pleased to present this DRAFT report summarizing the feasibility-level geotechnical investigation performed for the subject site, located at the southeast corner of West Avenue F and 20th Street in the Lancaster area of Los Angeles County, California. Our conclusions and recommendations for geotechnical design and construction are presented in the attached report.

We appreciate the opportunity to provide geotechnical engineering services to you on this project. If you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Sincerely,

KLEINFELDER, INC.

DRAFT

Hector Marquez, E.I.T.
Staff Professional II

Jeffery D. Waller, P.E., G.E.
Senior Geotechnical Engineer

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2280 Market Street, Suite 300, Riverside, CA 92501 p | 951.801.3681 f | 951.682.0192

DRAFT FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234
LANCASTER AREA OF
LOS ANGELES COUNTY, CALIFORNIA

KLEINFELDER PROJECT NO. 20230661.001A

JUNE 23, 2022

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A Report Prepared for:

Mr. Jack Lac
NorthPoint Development
12977 North Outer 40 Road, Suite 203
St. Louis, Missouri 63141

DRAFT FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234
LANCASTER AREA OF LOS ANGELES COUNTY, CALIFORNIA

Prepared by:

Hector Marquez, E.I.T.
Staff Professional II

Reviewed by:

Jeffery D. Waller, P.E., G.E.
Senior Geotechnical Engineer

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June 23, 2022
Kleinfelder Project No. 20230661.001A

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1 Site Vicinity Map
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A Field Explorations
B Laboratory Testing

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1 INTRODUCTION

This draft report presents the results of our feasibility-level geotechnical investigation for the proposed improvements at the southeast corner of West Avenue F and 20th Street West in the Lancaster area of Los Angeles County, California. The general location of the site is shown on Figure 1, Site Vicinity Map.

The purpose of this feasibility-level geotechnical investigation was to evaluate the subsurface soil conditions at the site in order to provide geotechnical recommendations for the design and construction of the proposed development. The scope of our services was presented in our proposal dated April 22, 2022. This report only provides recommendations for the proposed improvements discussed below.

1.1 PROJECT DESCRIPTION

Based on our review of a conceptual site plan provided by NorthPoint Development, the site area is approximately 238 acres and the proposed improvements include the construction of three approximately 1,117,000 square foot buildings. The buildings are anticipated to be concrete tilt-up distribution-type buildings and have warehouse areas with loading-dock high slab-on-grade floors. The project also includes Best Management Practices (BMPs) stormwater detention basins at the site.

We anticipate cuts and fills on the order of approximately 10 feet may be needed to develop the site. We anticipate that the proposed buildings may be supported on conventional shallow spread foundations. Foundation loads are not currently available, but based on our experience with similar past projects, we assume that maximum column loading will be on the order of 80 kips and maximum wall loads will be on the order of 4 to 8 kips per linear foot. Floor loads for proposed distribution-type buildings may be on the order of 500 pounds per square foot.

We anticipate parking lot and drive aisles will consist of asphaltic concrete (AC) pavement and loading dock areas will consist of Portland cement concrete pavement (PCCP). Ancillary construction is anticipated to include concrete flat work, landscaping, and installation of buried utilities.

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1.2 SCOPE OF SERVICES

The scope of our preliminary geotechnical study consisted of a literature review, historical aerial photo review, subsurface exploration, geotechnical laboratory testing, engineering evaluation and analysis, and preparation of this report. Our report includes a description of the work performed, a discussion of the geotechnical conditions observed at the site, and preliminary recommendations developed from our engineering analysis of field and laboratory data. A description of our scope of services performed for this project is presented below.

Task 1 – Background Data Review. We reviewed published and unpublished geologic literature in our files and the files of public agencies, including selected publications prepared by the California Geological Survey and the U.S. Geological Survey. We also reviewed readily available seismic and faulting information, including data for designated earthquake fault zones and our in-house database of faulting in the general site vicinity.

Task 2 – Field Exploration. The subsurface conditions at the site were explored by drilling and logging five (5) hollow-stem auger geotechnical borings (B-1 to B-5). The geotechnical borings were drilled to depths ranging from approximately 26½ to 51½ feet bgs. The locations of our borings are shown on the attached Figure 2, Exploration Location Map.

Prior to commencement of the fieldwork, our proposed exploration locations were cleared for known existing utility lines and with the participating utility companies through Underground Service Alert (USA). A Kleinfelder representative supervised the field operations and logged the borings. Selected bulk and drive samples were retrieved, sealed and transported to Kleinfelder's laboratory in Ontario, California for laboratory testing. Our typical sampling interval for the hollow stem auger borings was every 5 feet to full depths explored. The number of blows necessary to drive California-type samplers were recorded. A description of the field exploration and the logs of the borings, including a Legend to the Log of Borings, are presented in Appendix A.

Task 3 – Laboratory Testing. Laboratory testing was performed on representative samples of soil collected from our excavations to substantiate field classifications and to provide engineering parameters for geotechnical design. Laboratory testing included moisture determination and unit weight, grain size distribution, plasticity testing, direct shear,

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consolidation, modified Proctor, expansion index, collapse potential, and preliminary corrosion potential. A summary of the testing performed and the results for this subject site are presented in Appendix B.

Task 4 – Geotechnical Analyses. Field and laboratory data were analyzed in conjunction with the proposed site plan presented on Figure 2 and assumed structural loads to develop geotechnical recommendations for the design and construction of the proposed development. We evaluated potential foundation systems, lateral earth pressures, settlement, and earthwork considerations. Potential geologic hazards, such as ground shaking, liquefaction hazard, seismic settlement potential, flood hazard, and fault rupture hazard were also evaluated.

Task 5 – Report Preparation. This report summarizes the work performed, data acquired, and our findings, conclusions, and geotechnical recommendations for the design and construction of the proposed development. Recommendations for the following are presented in this report:

- Earthwork, including site preparation, excavation, site drainage, and the placement of engineered fill;
- Design of suitable foundation systems including allowable capacities, lateral resistance, and settlement estimates;
- Seismic design parameters;
- Floor slab and slab-on-grade support, including subgrade preparation;
- Lateral earth pressures for design of retaining walls;
- Design and construction of asphalt and Portland cement concrete pavements, including driveways, fire lanes, and concrete walks; and
- Preliminary infiltration correlations of the site soils for design of BMPs.

This report also contains reference maps and graphics, as well as the logs of the borings and laboratory test results.

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2 SITE AND SUBSURFACE CONDITIONS

2.1 SITE DESCRIPTION

The site is located at the southeast corner of West Avenue F and 20th Street West in the Lancaster area of Los Angeles County, California. The total site area is approximately 238 acres and is currently vacant and appears to not have had any previous development. The site is generally bounded by similarly vacant and undeveloped land in all directions. Topographic survey has not yet been provided to Kleinfelder for the proposed project. However, based on our review of Google Earth imagery, the site appears to generally slope from the west towards the east, approximately 6 feet.

2.2 SUBSURFACE CONDITIONS

Subsurface materials observed during drilling are described below and detailed descriptions of subsurface materials are provided in our boring logs presented in Appendix A.

Alluvium/Native Soils:

The alluvium/native soils were observed in all of the borings drilled for this investigation and generally consisted of clayey to silty sand, poorly graded to well graded sand with varying amounts of silt, and lean clays with varying amounts of sand to the total depth explored of approximately 51½ feet bgs. In-situ moisture content ranged from 0.8 to 35.3 percent and dry unit weight ranged from 86.3 to 123.4 pounds per cubic foot (pcf). Generally, the apparent density of the subsurface soils was stiff to hard for fine-grained soils and loose to very dense for coarse-grained soils.

2.3 GROUNDWATER CONDITIONS

Groundwater was not encountered in our borings to the maximum depth explored of approximately 51½ feet bgs during our geotechnical investigation within the 238-acre site. The closest wells to the site are approximately 0.17 miles northwest of the site

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(347497N1181674W001) with a ground surface elevation of 2311.8 feet above mean sea level (MSL) and approximately 0.18 miles west of the site (347422N1181696W001) with a ground surface elevation of 2313.8 feet above mean sea level (MSL). The shallowest depth to groundwater last measured was approximately 14 feet bgs on April 27,1951 in the northwest well and approximately 13 feet on March 3, 1952 in the west well, (CDWR, 2022). Current depth to ground water is estimated to be greater than 50 feet bgs based on borings drilled on site and reported depth to groundwater for monitoring wells located approximately 1.8 miles east of the site (Geotracker, 2022).

Fluctuations of localized zones of perched water and rise in soil moisture content should be anticipated during the rainy season. Irrigation of landscaped areas may also lead to an increase in soil moisture content and fluctuations of intermittent shallow perched groundwater levels.

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3 GEOLOGIC CONDITIONS

3.1 REGIONAL GEOLOGY

The subject site is located within the western portion of the Mojave Desert geomorphic province of California (Norris and Webb, 1990).

The Mojave Desert is approximately 25,000 square miles of desert situated in southeastern California. The area is enclosed on the southwest by the San Andreas fault and the Transverse Ranges and on the north and northeast by the Garlock fault, the Tehachapi Mountains and the Basin and Range. The Nevada state line and Colorado River form the arbitrary eastern boundary. The San Bernardino-Riverside county line designates the southern boundary.

The region is dominated by broad alluviated basins that are mostly aggrading sources receiving nonmarine deposits from the adjacent uplands. The highest general elevations of the Mojave Desert approach 4,000 feet above mean sea level (MSL) with most of the valleys between 2,000 and 4,000 feet MSL.

3.2 SITE GEOLOGY

The western approximately 2/3rd of site is underlain by Holocene alluvial fan deposits and the eastern approximately 1/3rd is underlain by Holocene alluvium fluvial deposits within the Armagosa Creek drainage (CGS, 2010).

3.3 GEOLOGIC HAZARDS

We have addressed below the potential geologic hazards for the site.

3.3.1 Active and Potentially Active Fault Search

Earthquakes and faulting occur as the tectonic plates, which comprise the Earth's crust, or lithosphere, move relative to one-another. Faults identified by the State as being active are not

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known to be present at the surface within the project limits. No portion of the site is located within a State of California-Special Studies Zone, formerly Alquist-Priolo Earthquake Fault Zone (Bryant and Hart, 2007). The closest zoned fault to the site is the San Andreas fault zone located approximately 10.8 miles southwest of the site (USGS, 1999). Because of the distance to known active faults, the lack of surficial evidence of fault breaks expressed in air photos or published geologic maps, the risk of surface rupture resulting from faulting is considered low.

3.3.2 Flooding

Surface water flow at the site is generally via sheet flow in a northeasterly direction toward the Armagosa creek drainage.

The western approximately 1/3rd of the site is within a flood hazard zone "X" according to FEMA (2008), where the flood hazard is "determined to be outside the 0.2% annual chance floodplain". The eastern approximately 2/3rd of the site is within a flood hazard zone "AO" according to FEMA (2008), where the flood hazard is a "Special Flood Hazard Area subject to Inundation by the 1% Annual chance Flood". Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths 1 foot.

A seiche is a wave or sloshing of a body of water that is at least partially impounded caused by strong wind or seismic shaking. The site is not downstream of large bodies of water or tanks which potentially could causes flooding and inundate the project site. The risk of seiche damage following a seismic event at the site is considered low.

3.3.3 Landslides

Landslides and other forms of mass wasting, including mud flows, debris flows, soil slips, and rock falls occur as soil or rock moves down slope under the influence of gravity. Landslides are frequently triggered by intense rainfall or seismic shaking. The site is not located within a State or county designated landslide hazard zone. The site is relatively flat and the risk at the site from landslides and other forms of mass wasting is considered very low.

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3.3.4 Liquefaction and Seismic Settlement

Liquefaction occurs when saturated, loose, coarse-grained or silty soils are subjected to strong shaking resulting from earthquake motions. The coarse-grained or silty soils typically lose a portion or all of their shear strength and regain strength sometime after the shaking stops. Soil movements (both vertical and lateral) have been observed under these conditions due to consolidation of the liquefied soils.

The site is located within a mapped generalized liquefaction potential zone (CGS, 2005). We have performed a liquefaction analysis to assess the seismically induced settlement potential. The results of our liquefaction analysis are summarized in Section 4.2.2.

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4 CONCLUSIONS AND RECOMMENDATIONS

4.1 GENERAL

Based on the results of our field exploration, laboratory testing and geotechnical analyses conducted during this study, it is our professional opinion that the proposed project is geotechnically feasible, provided the recommendations presented in this report are incorporated into the project design and construction.

The following preliminary opinions, conclusions, and recommendations are based on the properties of the materials encountered in the explorations, the results of our literature review, the results of the laboratory testing program, and our engineering analyses performed. Our recommendations regarding the geotechnical aspects of the design and construction of the project are presented in the following sections. We recommend that the final grading plans be reviewed by Kleinfelder prior to the start of construction.

4.2 SEISMIC DESIGN CONSIDERATIONS

4.2.1 Seismic Design Parameters

According to ACSE/SEI 7-16 (2016), which is incorporated into the 2019 California Building Code (CBC) by reference, sites subject to liquefaction, as discussed below, should be classified as Site Class F, which requires a site response analysis. However, ACSE/SEI 7-16 states that for a short period (less than ½ second) structure on liquefiable soils, Site Class D or E may be used instead of Site Class F to estimate design seismic loading on the structure. The selection of Site Class D or E is based on the assessment of the site soil profile assuming no liquefaction. We have assumed that the period of the structures will be less than ½ second. The assumption that the structures have a period of less than ½ second should be verified by the project structural engineer.

Based on data obtained from our field explorations, published geologic literature and maps, and on our interpretation of the 2019 CBC criteria, it is our opinion that the project site may be

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classified as Site Class D, Stiff Soil, according to Section 1613 of 2019 CBC and Table 20.3-1 of ASCE/SEI 7-16 (2016). Approximate coordinates for the site are noted below.

- Latitude: 34.7445°N
- Longitude: 118.1598°W

The Risk-Targeted Maximum Considered Earthquake (MCER) mapped spectral accelerations for 0.2 seconds and 1 second periods (S_s and S_1) were estimated using Section 1613 of the 2019 CBC and the OSHPD seismic design maps web-based application (available at https://seismicmaps.org/). In accordance with Section 11.4.8 of ASCE 7-16, a site-specific ground motion analysis is required for Site Class D sites with an S1 greater than 0.2 g. However, a site-specific ground motion analysis is not required if the seismic response coefficient (Cs) is determined in accordance with requirements of Chapter 12 and exceptions as noted in Section 11.4.8. We have assumed that Cs will be determined in accordance with the requirements of Chapter 12 and exceptions as noted in Section 11.4.8. This assumption should also be verified by the project structural engineer. The 2019 CBC Seismic Design Parameters (non site-specific) for these structures are summarized in Table 1.

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Table 1
2019 CBC Seismic Design Parameters

Design Parameter	Recommended Value
Site Class	D
S_s (g)	1.369
S_1 (g)	0.556
F_a	1.0
F_v	N/A*
S_{MS} (g)	1.369
S_{M1} (g)	N/A
S_{DS} (g)	0.912
S_{D1} (g)	N/A
PGA_M (g)	0.550

*Section 11.4.8 of ASCE 7-16 requires a site-specific ground motion hazard analysis be performed for Site Class D sites with S_1 values greater than or equal to 0.2g unless exceptions are taken. If exceptions are taken, then a F_v value of 1.74 could be used only to calculate the T_s value.

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4.2.2 Liquefaction and Seismic Settlement

To assess the potential for liquefaction of subsurface soils at the site, we used the liquefaction analysis procedures outlined in Youd et al. (2001) based on standard penetration test (SPT) data. For estimating the resulting ground settlements, we used the methods proposed by Tokimatsu and Seed (1987). These methods utilize corrected SPT blow counts to estimate the amount of volumetric compaction or settlement during an earthquake.

Groundwater was not encountered during our current field exploration drilled to a maximum explored depth of 51½ feet bgs. Based on our groundwater research discussed in Section 2.3, a design groundwater depth of 13 feet was used in our analyses based on the historic high groundwater level. The historic high groundwater level may be further investigated since the current depth is much lower than the historic high.

As recommended in Section 1803.5.12 of 2019 CBC, the peak ground acceleration (PGA) used in the liquefaction analysis was estimated in accordance with Section 11.8.3 of ASCE 7-16. A PGAM of 0.55g with an earthquake magnitude of 8.1 was used as the design-level seismic event in our liquefaction analysis, which is defined as an earthquake event with 2 percent probability of being exceeded in 50 years (return period of about 2,475 years) according to the 2019 CBC and ASCE/SEI 7-16.

We evaluated the liquefaction potential at the site using the SPT data. Based on the SPT data and our engineering analyses, it is our opinion that layers of sands and silty sands at depths approximately 35 to 50 feet bgs (below the design groundwater depth) may be subject to liquefaction in the event of a major earthquake occurring on a nearby fault. Based on our analyses, the calculated total liquefaction-induced settlement is on the order of less than 1 inch. Differential liquefaction-induced settlement may be estimated as ½ of the total seismically-induced settlement over a distance of about 30 feet

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4.3 FOUNDATIONS

4.3.1 General

Based on the results of our field exploration, laboratory testing, and geotechnical analyses, the proposed improvements may be supported on conventional shallow foundations on a zone of compacted fill provided the settlement estimates (both static and seismic) are tolerable. We have assumed that the proposed structures will be able to tolerate the estimated seismic settlement (i.e., it will not collapse creating a life safety issue). However, this assumption should be verified by the project structural engineer. It should be noted that the design intent of the 2019 California Building Code (CBC) during a design-level seismic event is life safety, not serviceability of the structure after an earthquake.

4.3.2 Allowable Bearing Pressure

Footings supported on at least 3 feet of compacted fill may be designed for a net allowable bearing pressure of 2,500 psf for dead plus sustained live loads. A one-third increase in the bearing value can be used for wind or seismic loads. All footings should be established at a depth of at least 24 inches below the lowest adjacent grade. The footing dimension and reinforcement should be designed by the structural engineer; however, continuous and isolated spread footings should have minimum widths of 18 and 24 inches, respectively.

4.3.3 Estimated Settlements

Total static settlement for foundations designed in accordance with the recommendations presented herein is estimated to be less than 1 inch. Differential static settlement between similarly loaded columns is estimated to be less than ½ inch over 40 to 70 feet. Note that this settlement is in addition to the estimated settlement due to seismic shaking.

4.3.4 Lateral Resistance

Resistance to lateral loads (including those due to wind or seismic forces) may be provided by frictional resistance between the bottom of concrete foundations and the underlying soils and by

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passive soil pressure against the sides of the foundations. A coefficient of friction of 0.3 may be used between cast-in-place concrete foundations and the underlying soil. The passive pressure available for engineered fill may be taken as equivalent to the pressure developed by a fluid with a unit weight of 300 pounds per cubic foot (pcf). A one-third increase in the passive resistance may be used for resistance to transient loads such as wind and seismic. The upper one foot of soil should be neglected when calculating passive resistance.

The lateral resistance parameters provided above are ultimate values. Therefore, a suitable factor of safety should be applied to these values for design purposes. The appropriate factor of safety will depend on the design condition and should be determined by the project Structural Engineer. Depending on the application, typical factors of safety could range from 1.5 to 2.0.

4.4 EARTHWORK

4.4.1 General

Recommendations for site preparation are presented below. All site preparation and earthwork operations should be performed in accordance with applicable codes, safety regulations and other local, state or federal specifications. All references to maximum unit weights are established in accordance with the latest version of ASTM Standard Test Method D1557.

Grading operations during the wet season or in areas where the soils are saturated may require provisions for drying of soils prior to compaction. If the project necessitates fill placement and compaction in wet conditions, we can provide suggested alternative recommendations for drying the soil. Conversely, additional moisture may be required during the dry months. A sufficient water source should be available to provide adequate water during compaction. During dry months, moisture conditioning of the subgrade soils may be required if left exposed for greater than a few days.

4.4.2 Site Preparation

Prior to general site grading, existing vegetation, debris, and oversized materials (greater than 6 inches in maximum dimension) should be stripped and disposed outside the construction

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limits. We estimate the depth of stripping to be approximately 6 inches over most portions of the site. Deeper stripping or grubbing may be required where higher concentrations of vegetation are encountered during site grading. Stripped topsoil (less any debris) may be stockpiled and reused for landscaping purposes; however, this material should be evaluated for suitability if it is desired to use this material for engineered fill below structures.

All oversize and organic debris, including any produced by demolition operations, (wood, steel, piping, plastics, etc.), should be separated and disposed offsite. The material generated during demolition of the existing roadways and concrete structures may be reused onsite. If reused, the particles should be crushed to a maximum particle size of 6 inches and spread across the site to prevent nesting.

Existing utility pipelines (if encountered) which extend beyond the limits of the proposed construction and are to be abandoned in place should be plugged with cement grout to prevent migration of soil and/or water. Demolition, disposal, and grading operations should be observed and tested by a representative from our office.

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4.4.3 Overexcavation

Recommendations for overexcavation of the proposed building pads (building foundations and floor slabs) and parking lots (pavements) are presented below. All site preparation and earthwork operations should be performed in accordance with applicable codes, safety regulations and other local, state, or federal specifications. All references to maximum unit weights are established in accordance with the latest version of ASTM Standard Test Method D1557.

Excavations within a 1:1 (horizontal: vertical) plane extending downward from a horizontal distance of 2 feet beyond the bottom outer edge of existing improvements (e.g. building foundations) or property lines should not be attempted without bracing and/or underpinning. All applicable excavation safety requirement and regulations, including OSHA requirements should be met.

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4.4.3.1 Structural Areas

In order to provide uniform support for the proposed spread foundations and slab-on-grade floors, we recommend the site soils be overexcavated and replaced as engineered fill to a minimum depth of 3 feet from existing grade and at least 3 feet below the bottom of footings, whichever is greater. Building pads located in cut/fill transition areas should be overexcavated a minimum of 3 feet below the proposed bottom of footings/slabs. Although not encountered in our borings, any existing undocumented artificial fill soils should be removed until native alluvium is exposed. The overexcavation should extend horizontally at least 5 feet beyond the edges of foundations and a distance equivalent to the thickness of anticipated fill below the footing, whichever is greater. Depending on the observed condition of the existing soil and engineered fill, deeper overexcavation may be required in some areas. The Geotechnical Engineer of Record should be notified for supplemental recommendations if the minimum relative compaction of the soil is not achieved.

4.4.3.2 Non-structural Areas

Within the non-structural areas, such as truck aprons, pavements, sidewalks, other flatwork, etc., we recommend that these items be underlain by at least 24 inches of engineered fill. The overexcavation should extend beyond the proposed improvements a horizontal distance of at least two feet.

4.4.3.3 Additional Overexcavation Considerations

After site preparation and overexcavation, and prior to scarification or placement of compacted fills, the excavation bottom should be observed, evaluated, and approved by Kleinfelder. Additional removals may be needed if significant porosity or other adverse conditions are observed. The subgrade should then be scarified to a depth of approximately 12 inches, moisture conditioned to at least optimum moisture content; and recompacted. After compaction, the subgrade should be proof rolled using equipment with sufficient weight to evaluate surface deflection. Proof rolling should be performed to verify that the subgrade soils are firm and unyielding at the depth of the recommended overexcavation presented above.

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4.4.4 Engineered Fill

We anticipate that most of the on-site soils may be reusable as engineered fill once any debris and oversized materials greater than 4 inches in diameter have been removed, and after any vegetation and organic debris is cleared. Engineered fill should contain less than 2 percent organic content and maximum material size should be less than 4 inches in maximum dimension. Disturbed/tilled soil, less vegetation, may be used in landscape areas, exported, or placed in a controlled manner and blended with the onsite soils, provided that the resulting engineered fill contains less than 2 percent organic content.

Fill should be placed in lifts no greater than 8 inches thick, loose measurement, and should be compacted to at least 90 percent of the maximum dry density. The moisture content of the on-site soils should be at or above the optimum moisture at the time of compaction.

Engineered fill placed below pavement should be compacted to at least 90 percent of the maximum dry density obtained by the ASTM D1557 method of compaction, with the upper 12 inches below pavements compacted to at least 95 percent relative compaction.

Although not anticipated, any imported fill materials to be used for engineered fill should be sampled and tested for approval by the geotechnical engineer prior to being transported to the site. The expansion index of an imported soil should be less than 20. In general, well-graded mixtures of gravel, sand and non-plastic silt are acceptable for use as import fill. A minimum notice of 3 working days will be required to allow for qualification testing prior to compaction of imported materials.

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4.4.5 Temporary Excavations

All excavations must comply with applicable local, state, and federal safety regulations including the current OSHA Excavation and Trench Safety Standards. Construction site safety generally is the sole responsibility of the Contractor, who shall also be solely responsible for the means, methods, and sequencing of construction operations. We are providing the information below solely as a service to our client. Under no circumstances should the information provided be interpreted to mean that Kleinfelder is assuming responsibility for construction site safety or the Contractor's activities; such responsibility is not being implied and should not be inferred.

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Excavations within a 1:1 plane extending downward from a horizontal distance of 2 feet beyond the bottom outer edge of existing improvements (e.g. building foundations) should not be attempted without bracing and/or underpinning the improvements. The geotechnical engineer or their field representative should observe the excavations so that modifications can be made to the excavations, as necessary, based on variations in the encountered soil conditions. All applicable excavation safety requirements and regulations, including OSHA requirements, should be met.

Near-surface soils encountered during our field investigation consisted predominantly of sandy silt, silty sand and sands with varying amounts of gravel and cobble. In our opinion, these soils would be considered a Type 'C' soil with regard to the OSHA regulations. For this soil type, OSHA requires a maximum slope inclination of 1.5:1 (horizontal to vertical) or flatter for excavations 20 feet or less in depth. Temporary, shallow excavations with vertical side slopes less than 4 feet high should generally be stable, although sloughing may be encountered. Vertical excavations greater than 4 feet high should not be attempted without appropriate shoring to prevent local instability. All trench excavations should be braced and shored in accordance with good construction practice and all applicable safety ordinances and codes. The contractor should be responsible for the structural design and safety of the temporary shoring system, and we recommend that this design be submitted to Kleinfelder for review to check that our recommendations have been incorporated.

Stockpiled (excavated) materials should be placed no closer to the edge of an excavation than a distance equal to the depth of the excavation, but no closer than 4 feet. All trench excavations should be made in accordance with OSHA requirements.

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4.4.6 Excavation Conditions

The borings were advanced using a truck-mounted or track-mounted hollow-stem auger drill rig. Drilling excavations were completed with easy to moderate effort through the existing site soils. Conventional earth moving equipment should be capable of performing the soil excavations.

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4.4.7 Pipe Bedding and Trench Backfill

Pipe bedding and pipe zone material should consist of sand or similar granular material having a minimum sand equivalent value of 30. Onsite soils may be suitable, but should be tested and approved by the engineer of record prior to use. The sand should be placed in a zone that extends a minimum of 6 inches below and 6 inches above the pipe for the full trench width. The bedding material should be compacted to a minimum of 90 percent of the maximum dry density or to the satisfaction of the geotechnical engineer's representative observing the compaction of the bedding material. Bedding material should consist of sand, gravel, crushed aggregate, or native free-draining granular material with a maximum particle size of ¾ inch. Bedding materials should also conform to the pipe manufacturer's specifications, if available. Trench backfill above bedding and pipe zone materials may consist of approved, on-site or import soils placed in lifts no greater than 8 inches loose thickness and compacted to 90 percent of the maximum dry density based on ASTM Test Method D1557. Jetting of backfill is not recommended. The on-site soils are suitable for backfill of utility trenches from one foot above the top of the pipe to the surface provided the material is free of organic and deleterious substances.

4.5 CONCRETE SLABS SUPPORTED ON GRADE

4.5.1 General

Slab-on-grade floors should be underlain by engineered fill as discussed in the Earthwork Section of this report. We anticipate that the planned floor slabs will have a minimum thickness of 6 inches, will be unreinforced and dowelled at panel edges. Minimum reinforcement for floor slabs, if required, should be determined by the structural engineer. The structural engineer should design the slabs for any specific loading conditions. A modulus of subgrade reaction of 100 pounds per cubic inch may be used for design. The moisture content of the upper 18 inches of engineered fill should be at the recommended range for fill compaction at the time the floor slab is constructed. Precautions should be taken so as not to allow the upper engineered fill below the slab to dry out below the recommended moisture range between completion of the building pad and construction of the floor slab. Total static settlement for foundations designed in accordance with the recommendations presented herein, with an anticipated maximum load of 500 psf, is estimated to be less than a 1 inch.

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Construction activities and exposure to the environment can cause deterioration of the prepared subgrade. We recommend that a Kleinfelder representative inspect the final subgrade conditions prior to placement of the concrete, and if necessary, perform additional moisture and density testing to determine the subgrade suitability. A low slump concrete should be used to reduce possible curling of the slab.

4.5.2 Exterior Flatwork

Where exterior flatwork, such as sidewalks, are to be constructed, the subgrade should be scarified to a depth of 8 inches and moisture conditioned to a moisture content above the optimum moisture content, and recompacted as recommended in the Earthwork Section of this report. Exterior, structurally loaded flatwork, such as truck docks or trash enclosures should adhere to the recommendations for rigid pavement presented in this report.

4.5.3 Vapor Retarder

Subsurface moisture and moisture vapor naturally migrate upward through the soil and, where the soil is covered by a building or pavement, this subsurface moisture will collect. To reduce the impact of this subsurface moisture and the potential impact of future introduced moisture (such as landscape irrigation or precipitation) on moisture sensitive flooring, the current industry standard is to place a vapor retarder on a compacted crushed rock layer and/or sand layers, 1 to 2 inches in thickness, placed above and below the vapor retarder. The crushed rock layer and/or sand layer may be omitted in accordance with the vapor barrier manufacturer's installation recommendations.

The necessity and placement of a vapor retarder should be evaluated by the structural engineer and/or flooring consultant. It should be noted that although vapor barrier systems are currently the industry standard, this system might not be completely effective in preventing floor slab moisture problems. These systems typically will not necessarily assure that floor slab moisture transmission rates will meet floor covering manufacturer standards and that indoor humidity levels be appropriate to inhibit mold growth. The design and construction of such systems are totally dependent on the proposed use and design of the proposed building and all elements of building design and function should be considered in the slab-on-grade floor design. Building design and construction may have a greater role in perceived moisture problems since sealed

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buildings/rooms or inadequate ventilation may produce excessive moisture in a building and affect indoor air quality.

4.5.4 Concrete Curing and Flooring

Various factors such as surface grades, adjacent planters, the quality of slab concrete and the permeability of the on-site soils affect slab moisture and can control future performance. In many cases, floor moisture problems are the result of either improper curing of floor slabs or improper application of flooring adhesives. We recommend contacting a flooring consultant experienced in the area of concrete slab-on-grade floors for specific recommendations regarding your proposed flooring applications. Special precautions must be taken during the placement and curing of all concrete slabs. Excessive slump (high water-cement ratio) of the concrete and/or improper curing procedures used during either hot or cold weather conditions could lead to excessive shrinkage, cracking or curling of the slabs. High water-cement ratio and/or improper curing also greatly increase the water vapor permeability of concrete. We recommend that all concrete placement and curing operations be performed in accordance with the American Concrete Institute (ACI) Manual.

It is emphasized that we are not floor moisture-proofing experts. We make no guarantee, nor provide any assurance that use of the capillary break/vapor retarder system will reduce concrete slab-on-grade floor moisture penetration to any specific rate or level, particularly those required by floor covering manufacturers. The builder and designers should consider all available measures for slab moisture protection.

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4.6 RETAINING WALLS

We have provided preliminary cantilever retaining wall recommendations below. Further evaluation will be needed once wall types, locations and heights are selected.

4.6.1 General

Design earth pressures for retaining walls depend primarily on the allowable wall movement, wall inclination, type of backfill materials, backfill slopes, surcharges, and drainage. The earth pressures provided assume that that a non-expansive granular backfill will be used and a

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drainage system will be installed behind the walls, so that external water pressure will not develop. If a drainage system will not be installed, the wall should be designed to resist hydrostatic pressure in addition to the earth pressure as well as reinforcement that should be protected from rust or other corrosion-inducing effects of moisture. Determination of whether the active or at-rest condition is appropriate for design will depend on the flexibility of the walls. Walls that are free to rotate at least 0.002 radians (deflection at the top of the wall of at least 0.002 x H, where H is the unbalanced wall height) may be designed for the active condition. Walls that are not capable of this movement should be assumed rigid and designed for the at-rest condition. The recommended active and at-rest earth pressure values are provided in Table 2, Earth Pressures for Retaining Walls.

Table 2
Earth Pressures for Retaining Walls
(Non-Expansive Backfill)

Wall Movement	Backfill Condition	Equivalent Fluid Pressure (pcf)	Seismic Increment * (pcf)
Free to Deflect (active condition)	Level	45	16
Restrained (at-rest condition)		65	N/A **

*Note: * Walls supporting more than 6 feet of backfill should be designed to support an incremental seismic lateral pressure, which is applied as a triangular pressure distribution with a maximum pressure at the bottom of the wall, not inverted.*

*** for restrained wall, use the static active earth pressure and seismic increment to check the seismic condition; use at-rest earth pressure only to check the static condition; the larger loading of both cases should be used for the design of restrained wall.*

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In addition to the above lateral pressure, undrained walls will have to be designed for full hydrostatic pressure. The above lateral earth pressures do not include the effects of surcharges (e.g., traffic, footings), compaction, or truck-induced wall pressures. Any surcharge (live, including traffic, or dead load) located within a 1:1 plane drawn upward from the base of the excavation should be added to the lateral earth pressures. The lateral contribution of a uniform surcharge load located immediately behind walls may be calculated by multiplying the surcharge by 0.36 for cantilevered walls and 0.53 for restrained walls. Walls adjacent to areas subject to vehicular traffic should be designed for a 2-foot equivalent soil surcharge (250 psf). Lateral load contributions from other surcharges located behind walls may be provided once the load configurations and layouts are known.

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4.6.2 Backfill Compaction

Care must be taken during the compaction operation not to overstress the wall. Wall backfill should be compacted to a least 90 percent relative compaction; however, heavy construction equipment should be maintained a distance of at least 3 feet away from the walls while the backfill soils are being placed. Kleinfelder should be contacted when development plans are finalized for review of wall and backfill conditions on a case-by-case basis.

4.6.3 Drainage

Walls should be properly drained or designed to resist hydrostatic pressures. Adequate drainage is essential to provide a free-draining backfill condition and to limit hydrostatic buildup behind the wall. Walls should also be appropriately waterproofed and include weep holes for drainage. In lieu of weep holes, a 4-inch diameter perforated PVC pipe, placed perforations down leading to a suitable gravity outlet, should be installed at the base of the walls. Another drainage alternative could be a manufactured prefabricated drainage composite panel such as Miradrain G100N or equivalent at regular intervals along the wall.

4.7 DRAINAGE AND LANDSCAPING

It is important that positive surface drainage be provided to prevent ponding and/or saturation of the soils in the vicinity of foundations, concrete slabs-on-grade, or pavements. We recommend that the site be graded to carry surface water away from the improvements and that positive measures be implemented to carry away roof runoff. Poor perimeter or surface drainage could allow migration of water beneath the building or pavement areas, which may result in distress to project improvements. If planted areas adjacent to structures are desired, we suggest that care be taken not to over irrigate and to maintain a leak-free sprinkler piping system. In addition, it is recommended that planter areas next to buildings have a minimum of 5 percent positive fall away from building perimeters to a distance of at least 5 feet. Drain spouts should be extended to discharge a minimum of 5 feet from the building, or some other method should be utilized to prevent water from accumulating in planters. Landscaping after construction should not promote ponding of water adjacent to structures.

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4.8 EXPANSION POTENTIAL

Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content. Changes in soil moisture content can result from precipitation, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors and may result in unacceptable settlement or heave of structures or concrete slabs supported on grade. Expansion index testing of surficial soils resulted in a value of 5, which indicates a very low expansion potential.

4.9 HYDRO-COLLAPSE POTENTIAL

Hydro-collapsible soils are characterized by their ability to undergo significant shrinkage (collapse) during inundation. Inundation in soils can result from precipitation, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors, and may result in unacceptable settlement of structures or concrete slabs supported on grade. Based on the results of laboratory testing, the collapse potential of the surficial soils is approximately 1.3 percent collapse under inundation. Collapse potential less than 2 percent is considered low.

4.10 PRELIMINARY SOIL CORROSIVITY

The soil corrosivity potential of the on-site materials to steel and buried concrete was preliminarily evaluated using a sample collected during our investigation. Testing was performed in general accordance with California Test Methods 643, 417, and 422 for pH and resistivity, soluble chlorides, and soluble sulfates, respectively. The test results are presented in Table 3, Preliminary Corrosivity Test Results.

Table 3
Preliminary Corrosivity Test Results

Boring	Depth (ft)	pH	Sulfate (ppm)	Chloride (ppm)	Resistivity (ohm-cm)
B-3	0 – 5	8.2	2,468	3,872	118

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These tests are only an indicator of soil corrosivity for the samples tested. Other soils found on site may be more, less, or of a similar corrosive nature. Imported fill materials should be tested to confirm that their corrosion potential is not more severe than those noted.

Resistivity values below 1,000 ohm-cm are considered extremely corrosive to buried ferrous metals (Roberge, 2006).

The concentrations of soluble sulfates indicate that the subsurface soils represent a Class S2 exposure to sulfate attack on concrete in contact with the soil based on ACI 318-14 Table 19.3.1.1 (ACI, 2014). Therefore, in accordance with ACI Building Code 318-14, a concrete mix of Type V cement with a minimum compressive strength of 4,500 psi and maximum water-cement ratio of 0.45 are specified for these sulfate concentrations.

Kleinfelder's scope of services does not include corrosion engineering and, therefore, a detailed analysis of the corrosion test results is not included. A qualified corrosion engineer should be retained to review the test results for further evaluation and design protective systems, if considered necessary.

4.11 PAVEMENT SECTIONS

4.11.1 Asphalt-Concrete Pavement Sections

The required pavement structural sections will depend on the expected wheel loads, volume of traffic, and subgrade soils. The Traffic Indexes (TI's) assumed should be reviewed by the project Owner, Architect, and/or Civil Engineer to evaluate their suitability for this project. Changes in the TI's will affect the corresponding pavement section. The pavement subgrade should be prepared just prior to placement of the base course. Positive drainage of the paved areas should be provided since moisture infiltration into the subgrade may decrease the life of pavements. Table 4, Preliminary Asphalt Concrete Pavement Sections, presents our recommendations of asphalt concrete pavement sections.

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Table 4
Preliminary Asphalt Concrete Pavement Sections
(Assumed Design R-value = 40)

Traffic Use	Assumed Traffic Index (TI)	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)
General Parking Traffic	5	3.0	4.0
Heavy Truck Access Ways	7	4.0	7.0

Based on the size of the project area and the variation of near surface soil type, an assumed design R-Value of 40 was selected for pavement design. Additional R-Value testing and analysis should be performed to evaluate the site further during the final geotechnical design. Since the characteristics of the near-surface soils can change as a result of grading, we recommend that the subgrade soils be tested for pavement support characteristics, to confirm the parameters used in design and allow for a possible reduction in structural section thickness. Pavement sections provided above are contingent on the following recommendations being implemented during construction.

- The pavement sections recommended above should be placed on at least 18 inches of engineered fill compacted to at least 90 percent of maximum dry density with the upper 12 inches below pavements compacted to at least 95 percent relative compaction. The overexcavation of the pavement areas should be conducted as recommended in the earthwork section of this report. Prior to fill placement, the exposed subgrade should be scarified to a depth of 8 inches, uniformly moisture conditioned to the moisture content of granular soils (sands, silty sands and gravels) should be near the optimum moisture content at the time of compaction.
- Subgrade soils should be in a stable, non-pumping condition at the time aggregate base materials are placed and compacted.
- Aggregate base materials should be compacted to at least 95 percent relative compaction.
- Adequate drainage (both surface and subsurface) should be provided such that the subgrade soils and aggregate base materials are not allowed to become wet.
- Aggregate base materials should meet current Caltrans specifications for Class 2 aggregate base rock, or crushed miscellaneous base as specified in the "Standard Specifications for Public Work Construction" ("Greenbook").

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- The asphalt pavement should be placed in accordance with “Green Book” specifications or the County of Los Angeles requirements, as appropriate. We recommend that the asphalt pavement be placed in a single layer of ½-inch aggregate mix for pavements 4 inches thick or less. If the pavement section is over 4 inches thick, then the asphalt should be placed in at least two layers of mix. The first layer should consist of a base or coarse layer (3/4-inch mix). The second layer (i.e., top layer) should consist of a medium or fine layer of ½-inch mix.
- Based on our analyses and our experience with similar projects, it is our professional opinion that the as-built asphalt pavement sections should have a tolerance of +/- ¼-inch in order to remain valid for satisfying the intent of the recommendations presented herein. Typically, the loose thickness should be ¼ inch per inch greater than the required compacted thickness. In addition to loose measurements prior to compaction, this is typically evaluated by averaging the thickness of several cores in a specific area. Individual measurements (loose thickness or core dimension) should be within at least ¾-inch of the design thickness.
- All concrete curbs separating pavement and landscaped areas should extend into the subgrade and below the bottom of adjacent, aggregate base materials.

Pavement sections provided above are based on the soil conditions encountered during our field investigation, our assumptions regarding final site grades, and limited laboratory testing. Since the actual pavement subgrade materials exposed during grading may be significantly different than those tested for this study, we recommend that representative subgrade samples be obtained and additional R-value tests performed. Should the results of these tests indicate a significant difference, the design pavement section(s) provided above may need to be revised.

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4.11.2 Portland Cement Concrete Pavement

Concrete pavements may be desirable in loading dock and trash collection areas. The concrete pavement should have a minimum 28-day compressive strength of 3,000 psi. Control joints should be spaced approximately every 10 feet. The concrete pavement section should be placed on at least 18 inches of engineered fill compacted to at least 90 percent of the maximum dry density. Prior to fill placement, the exposed subgrade should be scarified to a depth of 8 inches, uniformly moisture conditioned to the moisture content range recommended in

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Section 4.4 of this report. Table 5, Preliminary Recommended PCC Pavement Sections, presents our recommendations of Portland Cement Concrete pavement sections.

Table 5
Preliminary Recommended PCC Pavement Sections

Assumed Traffic Index (TI)	Concrete Thickness (inches; using a 28-day compressive strength of 3,000 psi)	Concrete Thickness (inches; using a 28-day compressive strength of 4,000 psi)
5	7.0	6.5
7	7.5	7.0

As an alternative to placing PCC pavements directly over 18 inches of engineered fill, 6 inches of aggregate base material may be added between the PCC and engineered fill to provide additional load distribution, drainage, and an option to reduce the thickness of the recommended PCC. If 6 inches of aggregate base material (compacted to 95% relative compaction) is used between the recommended 18 inches of engineered fill and PCC pavement, the recommended PCC thickness may be reduced by ½ inch. Aggregate base materials should meet current Caltrans specifications for Class 2 aggregate base, or crushed miscellaneous base as specified in the "Standard Specifications for Public Work Construction" ("Greenbook").

4.12 STORMWATER MANAGEMENT

We have preliminarily assessed the potential for storm water infiltration into the subgrade soils at the subject project site based on visual soil classification and laboratory testing of the soil samples collected during the field exploration. The onsite near-surface soils consist primarily of medium dense to dense clayey to silty sands. Based on these conditions, we anticipate a generally low infiltration capacity of the near-surface soils, and we preliminarily recommend alternatives to infiltration Best Management Practices (BMPs), such as bio-filtration/bio-retention systems (bio-swales and planter boxes), be implemented at the project site at these elevations. However, sand and sand with silt were observed in the upper 15 feet in limited layers in Borings B-1, B-2, and B-5. In-situ infiltration testing should be performed to confirm this preliminary assessment and determine design infiltration rates at the BMP design depth at specific locations at the site.

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If bio-filtration/bio-retention systems are employed, we recommend that the BMPs be built such that water exiting from them will not seep into the foundation areas or beneath slabs and pavement. If planters are located within 10 feet of structures or foundations, or adjacent to slabs and pavements, then some means of diverting water away from the structures, foundation soils, or soils that support slabs and pavements would be required, such as lining the planters.

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5 ADDITIONAL SERVICES

5.1 DESIGN LEVEL INVESTIGATION

This report presents preliminary geotechnical recommendations to develop a conceptual design and provide planning-level cost estimating. This study is not intended to be a design-level geotechnical study, and additional field and laboratory testing will be required in order to provide detailed geotechnical recommendations.

The preliminary recommendations provided in this report are based on our understanding of the described project information and on our interpretation of the data. We have made our recommendations based on experience with similar subsurface conditions under similar loading conditions. The recommendations apply to the specific project discussed in this report; therefore, any change in the structure configuration, loads, location, or the site grades should be provided to us so that we can review our conclusions and recommendations and make any necessary modifications.

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6 LIMITATIONS

This report has been prepared for the exclusive use of NorthPoint Development, and its consultants and contractors for specific application to the proposed improvements for the proposed project. The findings, conclusions and recommendations presented in this report were prepared in a manner consistent with the standards of care and skill ordinarily exercised by members of our profession practicing under similar conditions in the geographic vicinity and at the time the services will be performed. No warranty or guarantee, express or implied, is made. Our field exploration program for the geotechnical study of this project was based on the approximate building locations provided to us by the client.

The client has the responsibility to see that all parties to the project, including the designer, contractor, subcontractors, etc., are made aware of this report in its entirety. This report contains information that may be useful in the preparation of contract specifications. However, this report is not designed as a specification document and may not contain sufficient information for this use without proper modification.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance, but in no event later than one year from the date of the report. Land use, site conditions (both on site and off site) or other factors may change over time, and additional work may be required with the passage of time. Any party, other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of this report and the nature of the new project, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the client agrees to defend, indemnify, and hold harmless Kleinfelder from any claims or liability associated with such unauthorized use or non-compliance.

The scope of our geotechnical services did not include any environmental site assessment for the presence or absence of hazardous/toxic materials, including methane or other landfill related gases. Kleinfelder will assume no responsibility or liability whatsoever for any claim, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

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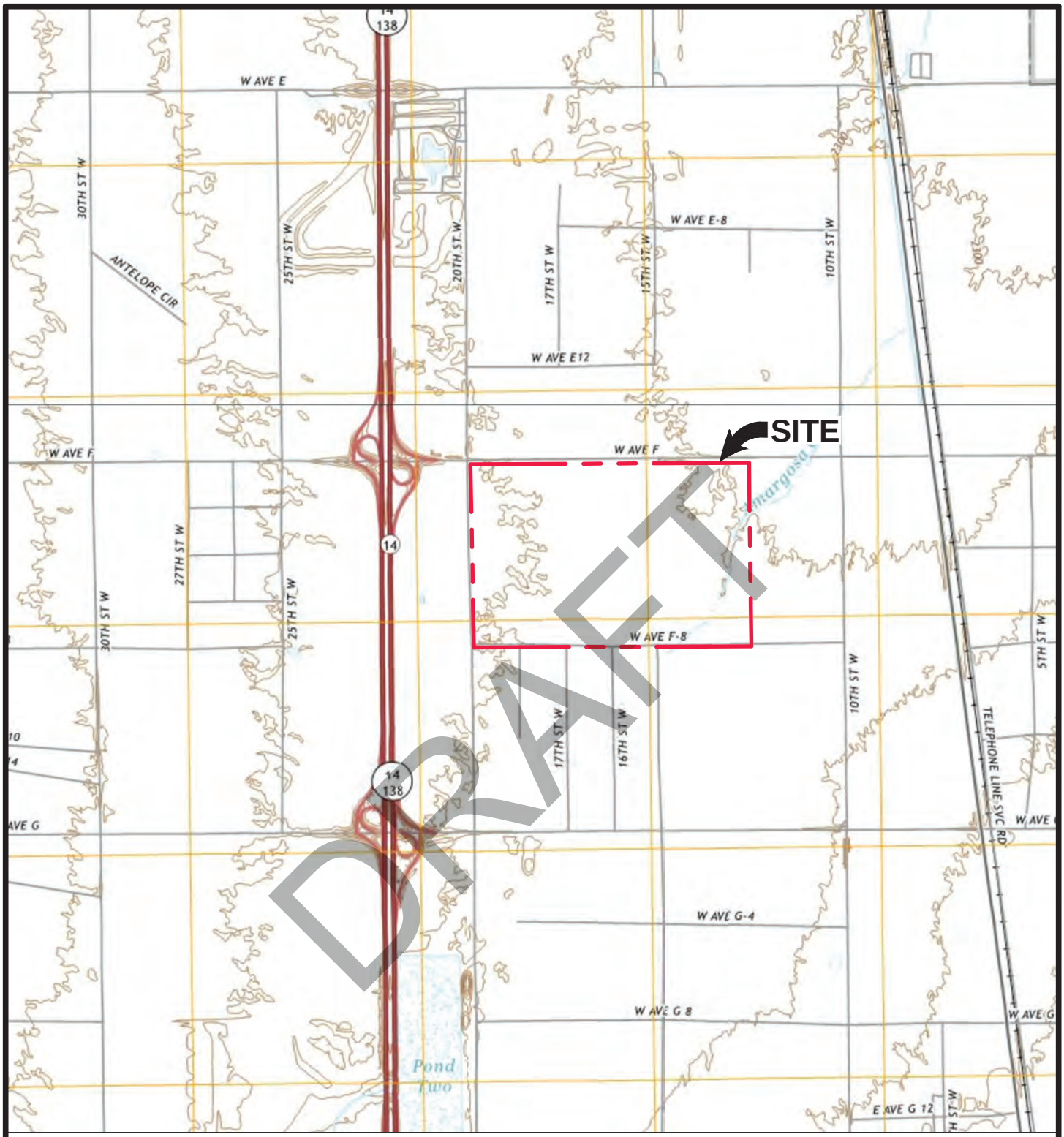
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FIGURES

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SOURCE: U.S.G.S. 7.5' topographic series,Lancaster West and Rosamond, California quadrangles dated 2018.

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APPROXIMATE SCALE (feet)

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DATE:	06/2022
REVISED:	-

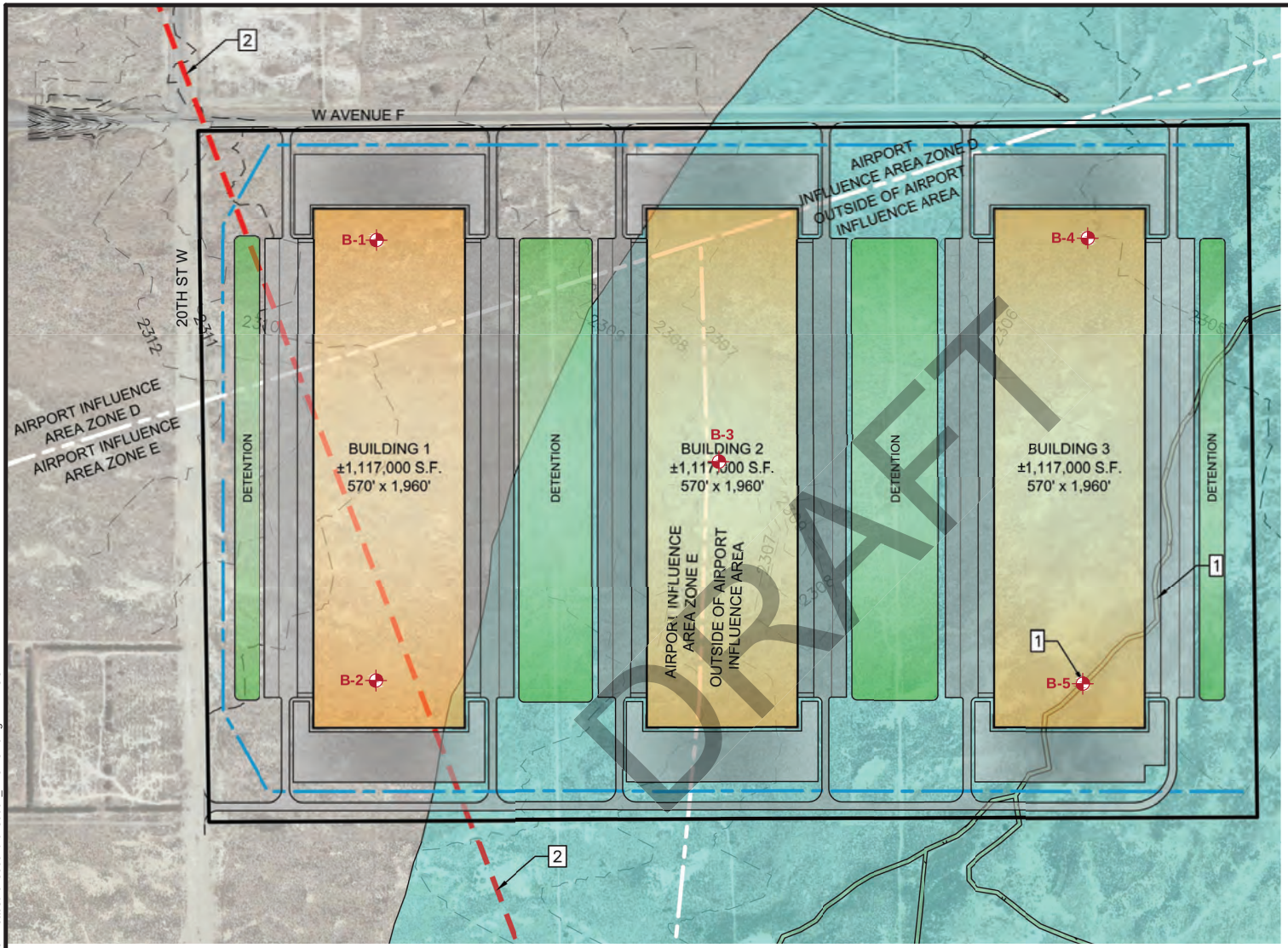
SITE VICINITY MAP

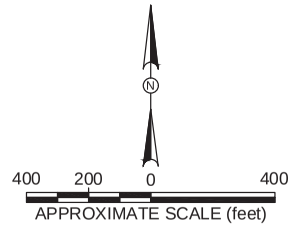
FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA OF
LOS ANGELES COUNTY, CALIFORNIA

FIGURE

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EXPLANATION

B-5 APPROXIMATE BORING LOCATION

REFERENCE: CONCEPT SITE PLAN A1 PROVIDED BY NORTH POINT DEVELOPMENT, DATED 04/11/2022

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EXPLORATION LOCATION MAP

FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA OF
LOS ANGELES COUNTY, CALIFORNIA

FIGURE
2

PLOTTED: 6/8/2022 12:19 PM BY: dean fahrney
CAD FILE: C:\Users\DFahrney\Downloads\20230661\20230661_LAC-234.dwg LAYOUT: 2

APPENDIX A
FIELD EXPLORATIONS

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APPENDIX A
FIELD EXPLORATIONS

The subsurface conditions at the site were explored by drilling and logging five (5) hollow-stem auger borings. Due to soft soil at the surface of the site, the hollow stem auger borings were drilled using either a truck-mounted or track-mounted drill rig. The hollow stem auger drill rigs were provided by 2R Drilling of Chino, California. The hollow stem auger drill rigs mentioned above were equipped with an automatic hammer system to drive the samplers. The locations of our borings are shown on Figure 2.

The logs of borings are presented as Figures A-3 through A-7. An explanation to the logs is presented on Figures A-1 and A-2. The Logs of Borings describe the earth materials encountered, samples obtained, and show field and laboratory tests performed. The logs also show the boring number, excavation date and the name of the logger and excavation subcontractor. A Kleinfelder geologist logged the borings utilizing the Unified Soil Classification System (USCS). The boundaries between soil types shown on the logs are approximate because the transition between different soil layers may be gradual. Bulk and drive samples of representative earth materials were obtained from the borings at maximum intervals of about 5 feet.

A California-type sampler was used to obtain relatively undisturbed drive samples of the soil encountered. This sampler consists of a 3-inch O.D., 2.4 inch I.D. split barrel shaft that is driven a total of 18 inches into the soil at the bottom of the boring. The soil was retained in six 1-inch brass rings for laboratory testing. The sampler was driven using a 140-pound hammer falling 30 inches. The total number of hammer blows required to drive the sampler the final 12 inches is termed the blow count and is recorded on the Logs of Borings. Where the sample was driven less than 12 inches, the number of blows to drive the sample for each 6-inch segment, or portion thereof, is shown on the logs. For example, 50/4" indicates 50 blows to drive the sampler 4 inches to refusal.

Bulk samples of the sub-surface soils were retrieved directly from the soil cuttings and placed in large plastic bags.

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DRILLING METHOD/SAMPLER TYPE GRAPHICS

BULK SAMPLE

CALIFORNIA SAMPLER
(3 in. (76.2 mm.) outer diameter)

GRAB SAMPLE

GROUND WATER GRAPHICS

WATER LEVEL (level where first observed)

WATER LEVEL (level after stabilizing period)

WATER LEVEL (additional levels after exploration)

OBSERVED SEEPAGE

NOTES

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Solid lines separating strata on the logs represent approximate boundaries only, dashed lines are inferred or extrapolated boundaries. Actual transitions may be gradual or differ from those represented.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System (ASTM D2488/D2487) designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., CL-ML, GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.

REFERENCES

1. American Society for Materials and Testing (ASTM), 2011, ASTM D2487: Classification of Soils for Engineering Purposes (Unified Soil Classification System).

UNIFIED SOIL CLASSIFICATION SYSTEM[1]

COARSE GRAINED SOILS (More than 50% retained on No. 200 Sieve)	**GRAVELS** (More than 50% of coarse fraction retained on No. 4 Sieve)	CLEAN GRAVEL WITH <5% FINES	**GW**	WELL-GRADED GRAVEL, WELL-GRADED GRAVEL WITH SAND
			GP	POORLY GRADED GRAVEL, POORLY GRADED GRAVEL WITH SAND
		GRAVELS WITH 5% TO 12% FINES	**GW-GM**	WELL-GRADED GRAVEL WITH SILT, WELL-GRADED GRAVEL WITH SILT AND SAND
			GW-GC	WELL-GRADED GRAVEL WITH CLAY (OR SILTY CLAY), WELL-GRADED GRAVEL WITH CLAY AND SAND (OR SILT CLAY AND SAND)
			GP-GM	POORLY GRADED GRAVEL WITH SILT, POORLY GRADED GRAVEL WITH SILT AND SAND
			GP-GC	POORLY GRADED GRAVEL WITH CLAY (OR SILTY CLAY), POORLY GRADED GRAVEL WITH CLAY AND (OR SILTY CLAY AND SAND)
		GRAVELS WITH > 12% FINES	**GM**	SILTY GRAVEL, SILTY GRAVEL WITH SAND
			GC	CLAYEY GRAVEL, CLAYEY GRAVEL WITH SAND
			GC-GM	**SILTY,** CLAYEY GRAVEL **SILTY, C**LAYEY GRAVEL WITH SAND
	SANDS (50% or more of coarse fraction passes the No. 4 Sieve)	CLEAN SANDS WITH <5% FINES	**SW**	WELL-GRADED SAND, WELL-GRADED SAND WITH GRAVEL
			SP	POORLY GRADED SAND, POORLY GRADED SAND WITH GRAVEL
		SANDS WITH 5% TO 12% FINES	**SW-SM**	WELL-GRADED SAND WITH SILT, WELL-GRADED SAND WITH SILT AND GRAVEL
			SW-SC	WELL-GRADED SAND WITH CLAY (OR SILTY CLAY), WELL-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)
			SP-SM	POORLY GRADED SAND WITH SILT, POORLY GRADED SAND WITH SILT AND GRAVEL
			SP-SC	POORLY GRADED SAND WITH CLAY, POORLY GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)
		SANDS WITH > 12% FINES	**SM**	SILTY SAND, SILTY SAND WITH GRAVEL
			SC	CLAYEY SAND, CLAYEY SAND WITH GRAVEL
			SC-SM	SILTY, CLAYEY SAND, SILTY, CLAYEY SAND WITH GRAVEL
FINE GRAINED SOILS (50% or more passes the No. #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)		**ML**	SILT, SILT WITH SAND, SILT WITH GRAVEL
			CL	LEAN CLAY, LEAN CLAY WITH SAND, LEAN CLAY WITH GRAVEL
			CL-ML	SILTY CLAY, SILTY CLAY WITH SAND, SILTY CLAY WITH GRAVEL
			OL	ORGANIC CLAY, ORGANIC CLAY WITH SAND, ORGANIC CLAY WITH GRAVEL, ORGANIC SILT, ORGANIC SILT WITH SAND, ORGANIC SILT WITH GRAVEL
	SILTS AND CLAYS (Liquid Limit 50 or greater)		**MH**	ELASTIC SILT. ELASTIC SILT WITH SAND, ELASTIC SILT WITH GRAVEL
			CH	FAT CLAY, FAT CLAY WITH SAND, FAT CLAY WITH GRAVEL
			OH	ORGANIC CLAY, ORGANIC CLAY WITH SAND, ORGANIC CLAY WITH GRAVEL, ORGANIC SILT, ORGANIC SILT WITH SAND, ORGANIC SILT WITH GRAVEL

NOTE: USE MATERIAL DESCRIPTION ON THE LOG TO DEFINE A GRAPHIC THAT MAY NOT BE PROVIDED ON THIS LEGEND.

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DRAWN BY: VF
CHECKED BY: JDW
DATE: 6/10/2022

GRAPHICS KEY

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-1

gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [L_KLF_GEO_LEG1_GRAPHICS_KEY_W_USCS]
PROJECT NUMBER: 20230661.001A
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GRAIN SIZE[1]

DESCRIPTION		SIEVE SIZE	GRAIN SIZE
Boulders		>12 in.	>12 in. (304.8 mm.)
Cobbles		3 - 12 in.	3 - 12 in. (76.2 - 304.8 mm.)
Gravel	coarse	3/4 -3 in.	3/4 -3 in. (19 - 76.2 mm.)
	fine	#4 - 3/4 in.	0.19 - 0.75 in. (4.8 - 19 mm.)
Sand	coarse	#10 - #4	0.079 - 0.19 in. (2 - 4.9 mm.)
	medium	#40 - #10	0.017 - 0.079 in. (0.43 - 2 mm.)
	fine	#200 - #40	0.0029 - 0.017 in. (0.07 - 0.43 mm.)
Fines		Passing #200	<0.0029 in. (<0.07 mm.)

SECONDARY CONSTITUENT[1]

Term of Use	AMOUNT	
	Secondary Constituent is Fine Grained	Secondary Constituent is Coarse Grained
Trace	<5%	<15%
With	≥5 to <15%	≥15 to <30%
Modifier	≥15%	≥30%

PLASTICITY[1]

DESCRIPTION	CRITERIA
Non-Plastic	A 1/8 in. (3 mm) thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.

MOISTURE CONTENT[1]

DESCRIPTION	FIELD TEST
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

CONSISTENCY - FINE-GRAINED SOIL[2, 3]

CONSISTENCY	SPT - N (# blows / ft)	Pocket Pen (tsf)	UNCONFINED COMPRESSIVE STRENGTH (Q_u)(psf)	VISUAL / MANUAL CRITERIA
Very Soft	<2	PP < 0.25	<500	Easily penetrated several inches by fist
Soft	2 - 4	0.25 ≤ PP <0.5	500 - 1,000	Easily penetrated several inches by thumb
Medium Stiff	4 - 8	0.5 ≤ PP <1	1,000 - 2,000	Can be penetrated several inches by thumb with moderate effort
Stiff	8 - 15	1 ≤ PP <2	2,000 - 4,000	Readily indented by thumb but penetrated only with great effort
Very Stiff	15 - 30	2 ≤ PP <4	4,000 - 8,000	Readily indented by thumbnail
Hard	>30	4 ≤ PP	>8,000	Indented by thumbnail with difficulty

APPARENT DENSITY - COARSE-GRAINED SOIL[2]

APPARENT DENSITY	SPT-N (# blows / ft)
Very Loose	<4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	>50

STRUCTURE[1]

DESCRIPTION	CRITERIA
Stratified	Alternating layers of varying material or color with layers at least 1/4-in. (6mm) thick, note thickness.
Laminated	Alternating layers of varying material or color with the layers less than 1/4-in. (6 mm) thick, note thickness.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear polished or glossy, sometimes striated.
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown.
Lensed	Inclusion of small pockets of different soils, such as small lenses of sand scattered through a mass of clay; note thickness.
Homogeneous	Same color and appearance throughout

ANGULARITY[1]

DESCRIPTION	CRITERIA
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces.
Subangular	Particles are similar to angular description but have rounded edges.
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges.
Rounded	Particles have smoothly curved sides and no edges.

REACTION WITH HYDROCHLORIC ACID[1]

DESCRIPTION	FIELD TEST
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

CEMENTATION[1]

DESCRIPTION	FIELD TEST
Weakly	Crumbles or breaks with handling or little finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

REFERENCES

1. American Society for Materials and Testing (ASTM), 2017, ASTM D2488: Standard Practice for Description and Identification of Soils (Visual Manual Procedures).
2. Terzaghi, K and Peck, R., 1948, Soil Mechanics in Engineering Practice, John Wiley & Sons, New York.
3. United States Department of the Interior Bureau of Reclamation (USBR), 1998, Earth Manual, Part I.

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SOIL DESCRIPTION KEY
(For additional tables, see ASTM D2488)

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-2

PLOTTED: 06/15/2022 08:16 PM BY: HMarquez
gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [KLF_GEO_LEG2_SOIL_DESC_KEY]
PROJECT NUMBER: 20230661.001A
OFFICE FILTER: RIVERSIDE

Date Begin - End:	5/20/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-1**	
Logged By:	C. Dang	**Drill Crew:**	Eddie/Victor		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	GT-16	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Very Windy and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Bare Earth Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS						
		Alluvium **Silty Clayey SAND (SC-SM)**: fine to medium sand, non-plastic, brown, dry										Hand auger to 5 ft bgs Modified Proctor Expansion Index Direct Shear
5		**Clayey SAND (SC)**: fine to medium sand, low to medium plasticity, brown, dry, dense		BC=14 29 40	18"	4.9	117.9					
10		fine to coarse sand, low plasticity, medium dense		BC=13 15 19	18"	5.3	110.4	100	41			
15		**Well-Graded SAND with Silt (SW-SM)**: fine to coarse sand, non-plastic, brown, dry, medium dense		BC=10 12 15	18"	4.3	121.1					
20		**Sandy Lean CLAY (CL)**: fine to medium sand, medium plasticity, grayish brown, moist, stiff, calcium deposits		BC=4 9 16	18"	22.2	105.5					
25		medium to stiff, increasing sand content		BC=6 2 4	18"	15.2	111.1					
30												

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with auger cuttings on May 20, 2022.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20230661.001A
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CHECKED BY:	JDW
DATE:	6/10/2022

BORING LOG B-1

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-3

PLOTTED: 06/22/2022 11:35 AM BY: HMarquez
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PROJECT NUMBER: 20230661.001A
gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [_KLF_BORING/TEST PIT SOIL LOG]

Date Begin - End:	5/20/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-2**	
Logged By:	C. Dang	**Drill Crew:**	Eddie/Victor		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	GT-16	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Very Windy and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Bare Earth Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS						
		Alluvium **Clayey SAND (SC)**: fine to medium sand, low plasticity, brown, dry										Hand auger to 5 ft bgs
5		**Poorly Graded SAND (SP)**: medium to coarse sand, non-plastic, reddish brown, dry, very dense, trace subrounded gravel		BC=17 30 48	18"	4.4	112.7					Collapse Potential
10		increasing moisture content, trace silt content		BC=13 15 18	18"	6.9	110.7					
15		**Sandy Lean CLAY (CL)**: fine to medium sand, medium plasticity, brown, moist, stiff, calcium deposits		BC=10 14 14	18"	7.1	120.5			NP	NP	
20		interbedded silty sand		BC=12 24 19	18"	9.5	123.4					
25		**Silty SAND (SM)**: fine to medium sand, non-plastic, brown, moist, loose to medium dense		BC=7 4 11	18"	35.3	91.0					
30												

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with auger cuttings on May 20, 2022.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20230661.001A
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CHECKED BY:	JDW
DATE:	6/10/2022

BORING LOG B-2

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-4

PLOTTED: 06/22/2022 11:35 AM BY: HMarquez
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Date Begin - End:	5/23/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-3**	
Logged By:	C. Dang	**Drill Crew:**	Jerry/Carlos		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55 Track Rig	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Very Windy and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Bare Earth / Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS						
		Alluvium **Clayey SAND (SC)**: fine to medium sand, non-plastic, brown, dry										Hand auger to 5 ft bgs Corrosion
5		dry to moist, medium dense		BC=10 13 13	18"	15.5	104.2					
10		low plasticity, dry, increase in sand, trace subrounded gravel		BC=10 20 25	18"	3.3	108.8					
15		dense, increasing moisture content		BC=19 28 36	17"	2.6	109.9	98	15			
		Well-Graded SAND (SW): fine to coarse sand, non-plastic, reddish brown, dry, dense, trace subrounded gravel										
20				BC=13 23 36	16"	1.6	103.8					
						3.4						
		Sandy Lean CLAY (CL): fine to medium sand, medium plasticity, brown, moist, stiff										
25				BC=6 7 15	18"	31.4	86.3			46	21	
		Lean CLAY with Sand (CL): fine to medium sand, medium to high plasticity, brown, moist, stiff, trace silt content										
30				BC=10 8 11	18"					48	29	
		Clayey SAND (SC): fine to coarse sand, low plasticity, reddish brown, dry to moist, very dense, trace subrounded gravel										

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BORING LOG B-3

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-5

gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20230661.001A
OFFICE FILTER: RIVERSIDE
PLOTTED: 06/22/2022 11:35 AM BY: HMarquez

Date Begin - End:	5/23/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-3**	
Logged By:	C. Dang	**Drill Crew:**	Jerry/Carlos		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55 Track Rig	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Very Windy and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Surface Condition: Bare Earth Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		FIELD EXPLORATION				LABORATORY RESULTS						
		Clayey SAND (SC): fine to coarse sand, low plasticity, reddish brown, dry to moist, very dense, trace subrounded gravel		BC=7 14 50/5"	18"							
		Poorly Graded SAND with Silt (SP-SM): medium to coarse sand, non-plastic, reddish brown, dry to moist, medium dense										
40				BC=15 23 12	18"	13.2	106.7			47	26	
		Sandy Lean CLAY (CL): fine to medium sand, medium to high plasticity, brown, moist, stiff										
45				BC=5 9 18	18"	19.9	108.0			NP	NP	
		Silty SAND (SM): fine to medium sand, non-plastic, brown, moist, medium dense										
		Sandy Lean CLAY (CL): medium sand, medium plasticity, gray, moist, stiff, trace subrounded gravel										
50				BC=5 10 11	18"	14.3	110.6			42	26	
55												
60												
65												

The boring was terminated at approximately 51.5 ft. below ground surface. The boring was backfilled with auger cuttings on May 23, 2022.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20230661.001A
DRAWN BY:	VF
CHECKED BY:	JDW
DATE:	6/10/2022

BORING LOG B-3

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-5

PLOTTED: 06/22/2022 11:35 AM BY: HMarquez
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PROJECT NUMBER: 20230661.001A
OFFICE FILTER: RIVERSIDE

Date Begin - End:	5/23/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-4**	
Logged By:	C. Dang	**Drill Crew:**	Jerry/Carlos		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55 Track Rig	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Hot and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	FIELD EXPLORATION Surface Condition: Bare Earth Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	LABORATORY RESULTS Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
0		**Alluvium** **Clayey SAND (SC)**: fine to medium sand, non-plastic, brown, dry										Hand auger to 5 ft bgs
5		**Silty SAND (SM)**: fine to medium sand, reddish brown, dry, dense, weakly cemented		BC=25 33 43	18"							
		Sandy Lean CLAY (CL): fine to coarse sand, medium plasticity, brown, moist, very stiff										
10				BC=9 10 14	18"	19.1	89.9					Consolidation
		Clayey SAND (SC): fine to medium sand, non-plastic, reddish brown, moist, medium dense, trace subrounded gravel										
15				BC=10 10 24	18"	21.1	99.7					
20				BC=10 12 13	18"	14.6	114.9					
		Sandy Lean CLAY (CL): fine to medium sand, medium plasticity, mottled grayish brown, moist, very stiff										
		Silty SAND (SM): fine to medium sand, non-plastic, reddish brown, dry, loose										
25				BC=6 7 5	18"	11.0	111.2					
30												

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with auger cuttings on May 23, 2022.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20230661.001A
DRAWN BY:	VF
CHECKED BY:	JDW
DATE:	6/10/2022

BORING LOG B-4

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-6

gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20230661.001A
OFFICE FILTER: RIVERSIDE
PLOTTED: 06/22/2022 11:35 AM BY: HMarquez

Date Begin - End:	5/23/2022	**Drilling Co.-Lic.#:**	2R Drilling - #709029	**BORING LOG B-5**	
Logged By:	C. Dang	**Drill Crew:**	Jerry/Carlos		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME-55 Track Rig	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	Hollow Stem Auger		
Weather:	Hot and Sunny	**Exploration Diameter:**	8 in. O.D.		

Depth (feet)	Graphical Log	Lithologic Description	Sample Type	Blow Counts(BC)= Uncorr. Blows/6 in.	Recovery (NR=No Recovery)	Water Content (%)	Dry Unit Wt. (pcf)	Passing #4 (%)	Passing #200 (%)	Liquid Limit	Plasticity Index (NP=NonPlastic)	Additional Tests/ Remarks
		Alluvium **Sandy SILT (ML)**: fine to medium sand, low to medium plasticity, brown, dry, mud cracks present										Hand auger to 5 ft bgs
5		**Well-Graded SAND with Silt (SW-SM)**: fine to coarse sand, non-plastic, grayish brown, dry, dense, trace subangular gravel, trace silt content		BC=12 18 33	13"	0.8		100	5.8			Disturbed
10		**Sandy Lean CLAY (CL)**: fine to medium sand, medium plasticity, brown, moist, very stiff, calcium deposits		BC=10 12 13	18"	19.5						
15		**Poorly Graded SAND (SP)**: fine to medium sand, non-plastic, grayish brown, dry, medium dense, trace rounded gravel		BC=12 20 24	12"	1.0						
20		**Clayey SAND (SC)**: medium to coarse sand, non-plastic, grayish brown, moist, dense, trace rounded gravel		BC=9 23 27	18"	2.2						Disturbed
		Sandy Lean CLAY (CL): fine to medium sand, high plasticity, olive gray, moist, hard										
25		**Clayey SAND (SC)**: fine to coarse sand, non-plastic, dark gray, moist, medium dense, trace subrounded gravel		BC=12 15 20	17"	15.9						
30												

The boring was terminated at approximately 26.5 ft. below ground surface. The boring was backfilled with auger cuttings on May 23, 2022.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:

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PROJECT NO.:	20230661.001A
DRAWN BY:	VF
CHECKED BY:	JDW
DATE:	6/10/2022

BORING LOG B-5

Feasibility-Level Geotechnical Investigation
Antelope LAC 234 - Lancaster Area of
Los Angeles County, California

FIGURE
A-7

PAGE: 1 of 1

gINT FILE: Klf_gint_master_2023
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2023.GLB [_KLF_BORING/TEST PIT SOIL LOG]
PROJECT NUMBER: 20230661.001A
OFFICE FILTER: RIVERSIDE
PLOTTED: 06/22/2022 11:35 AM BY: HMarquez

APPENDIX B
LABORATORY TESTING

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APPENDIX B
LABORATORY TESTING

Laboratory tests were performed on drive and bulk soil samples to estimate engineering characteristics of the various earth materials encountered. The laboratory testing was performed by our laboratory located in Ontario, California or by AP Engineering & Testing, Inc. of Pomona, California. Testing was performed in general accordance with procedures outlined in the American Society for Testing and Materials, or other accepted procedures. Visual classifications presented on the lab figures performed by AP Engineering may differ from those presented on the boring logs provided in Appendix A.

LABORATORY MOISTURE DETERMINATIONS AND UNIT WEIGHTS

Natural moisture content and unit weight tests were performed on selected samples. The moisture content tests were performed in general accordance with ASTM Test Method D 2216 and the unit weight tests were performed in general accordance with ASTM Test Method D 2937. The results are presented on the Logs of Borings in Appendix A.

SIEVE ANALYSES

Sieve analyses were performed on selected samples of the materials encountered at the site to evaluate the grain size distribution characteristics of the soils and to aid in their classification. Tests were performed in general accordance with ASTM Test Method D 6913. Results of these tests are presented in the boring logs in Appendix A and attached as Figure B-1, Grain Size Distribution Curve.

ATTERBERG LIMITS (PLASTICITY INDEX)

Plasticity limit and liquid limit testing was performed on soil samples to evaluate behavior conditions at varying water contents. Testing was performed in general accordance with ASTM Standard Test Method D4318. The results are presented on the boring logs in Appendix A and attached as Figures B-2 and B-3, Plasticity Testing.

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DIRECT SHEAR

Direct shear testing was performed on a remolded sample for shear strength and cohesion values of the in-situ soils in accordance with ASTM Standard Test Method D 3080. The result is presented as Figure B-4, Direct Shear Test.

CONSOLIDATION TESTS

Consolidation testing was performed on selected relatively undisturbed samples by AP Engineering in accordance with ASTM D 2435. The tests were performed on 1.0-inch-high, 2.41-inch diameter samples. After trimming the ends, the sample was placed in a consolidometer and an initial reading was recorded. The sample was saturated during loading, and thereafter, the sample was incrementally loaded. The test results are attached to this appendix.

ONE-DIMENSIONAL SWELL/COLLAPSE TEST

Laboratory testing was performed on selected soil samples to study the collapse potential of the subgrade soils. During this test, the soil sample is inundated with water at a specific surcharge loading and the percent swell or collapse is measured. This test was performed by AP Engineering in accordance with ASTM D4546. The test results are attached to this appendix.

PRELIMINARY CORROSIVITY TESTS

A series of chemical tests were performed on a selected sample of the near-surface soils to estimate pH, resistivity and sulfate and chloride contents. The sample was tested in general accordance with California Test Methods 643, 422, and 417 for pH and minimum resistivity, soluble chlorides, and soluble sulfates, respectively. Test results may be used by a qualified corrosion engineer to evaluate the general corrosion potential with respect to construction materials. The tests were performed by AP Engineering. The results of these tests are presented in Table B-1, Preliminary Corrosion Test Results.

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MODIFIED PROCTOR

Maximum density-optimum moisture tests were performed on a select bulk sample of the on-site soils to determine compaction characteristics. The test was performed in accordance with ASTM Standard Test Method D 1557. The test results are presented in Table B-2, Modified Proctor Test Results.

EXPANSION INDEX

Expansion Index testing was performed on one near surface bulk sample to determine the expansion potential of the soil. The test was performed in accordance with ASTM Standard Test Method D4829. The test result is presented in Table B-3, Expansion Index Test Result.

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Table B-1
Preliminary Corrosivity Test Results

Boring	Depth (ft)	pH	Sulfate (ppm)	Chloride (ppm)	Resistivity (ohm-cm)
B-3	0 – 5	8.2	2,468	3872	118

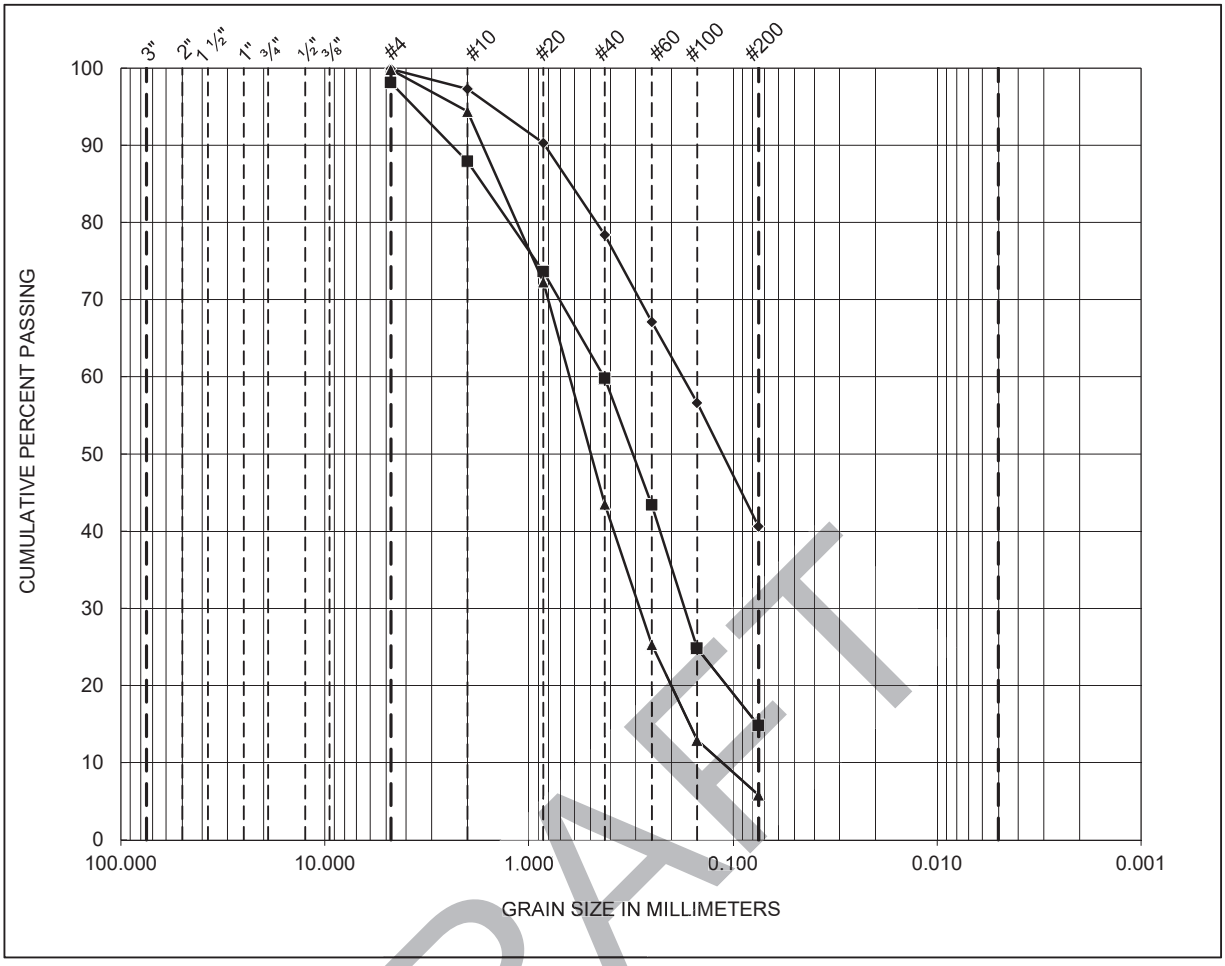
Table B-2
Modified Proctor Test Results

Boring Number	Depth (ft)	Maximum Dry Density (pcf)	Optimum Moisture (%)
B-1	0 – 5	120.5	11.2

Table B-3
Expansion Index Test Result

Boring Number	Depth (ft)	Expansion Index	Expansion Potential
B-1	0 – 5	5	Very Low

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COBBLE	GRAVEL	SAND	SILT	CLAY

SYMBOL	SAMPLE IDENTIFICATION			PERCENTAGES			ATTERBERG LIMITS			SOIL CLASSIFICATION
	BORING NO.	SAMPLE NO.	DEPTH (ft.)	GRAVEL	SAND	FINES	LL	PL	PI	
◆	B-1	3	10	0.1	59.3	40.6	NM	NM	NM	Clayey Sand (SC)
■	B-3	4	15	1.9	83.3	14.8	NM	NM	NM	Clayey Sand (SC)
▲	B-5	2	5	0.2	94.0	5.8	NM	NM	NM	Well Graded Sand with Silt (SW-SM)

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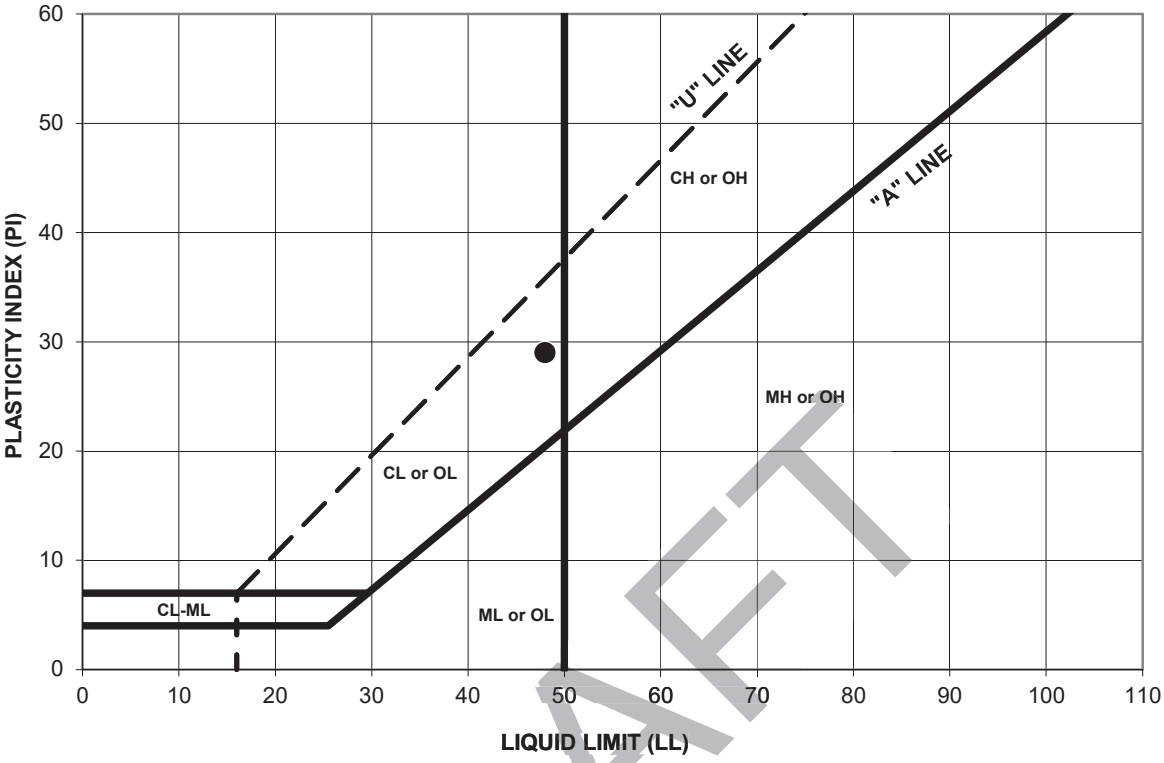
PROJECT NO.:	20230661.001A
TESTED BY:	J. Calderon
DATE:	5/26/2022
CHECKED BY:	M. Magaña
DATE:	6/1/2022

GRAIN SIZE DISTRIBUTION

FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA
OF LOS ANGELES COUNTY, CALIFORNIA

FIGURE

B-1



DRAFT

SYMBOL	SAMPLE IDENTIFICATION			ATTERBERG LIMITS			SOIL CLASSIFICATION
	BORING NO.	SAMPLE NO.	DEPTH (ft)	LL	PL	PI	
◆	B-2	3	15	NP	NP	NP	Poorly Graded Sand (SP)
●	B-3	7	30	48	19	29	Lean Clay with Sand (CL)

Testing performed in general accordance with ASTM D4318

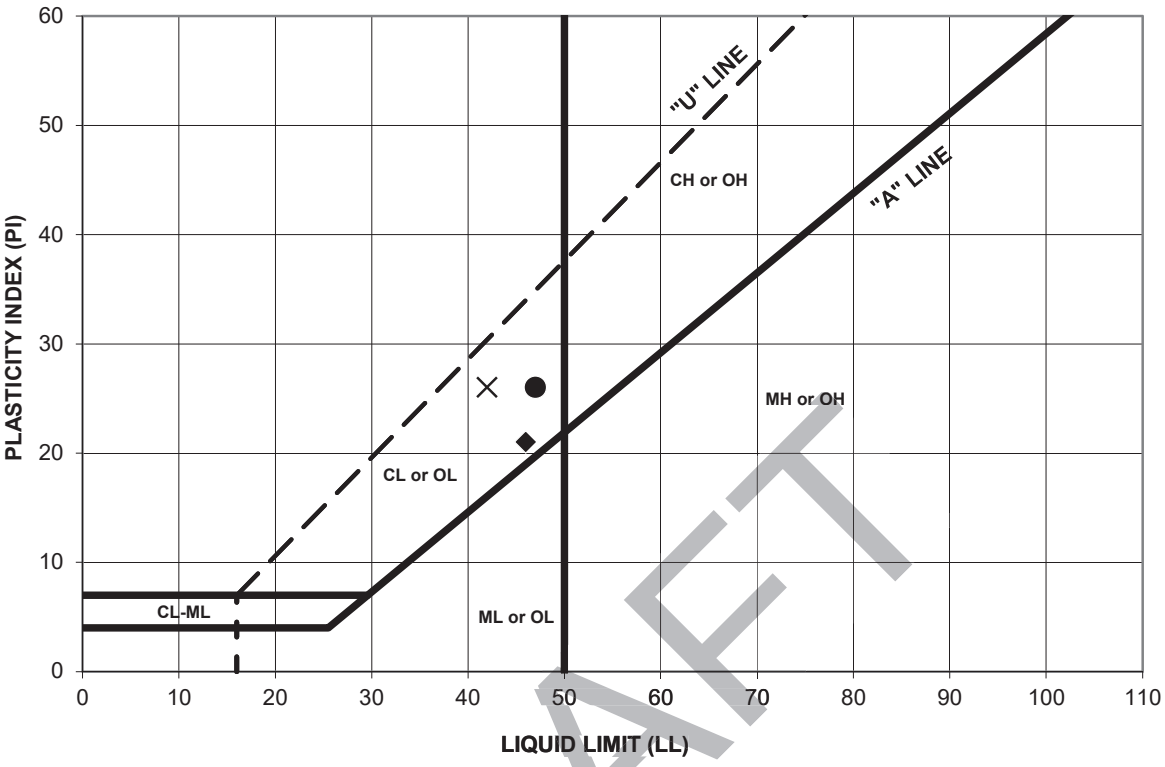
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PROJECT NO.:	20230661.001A
TESTED BY:	J. Calderon
DATE:	5/31/2022
CHECKED BY:	M. Magaña
DATE:	6/1/2022

PLASTICITY TESTING

FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA
OF LOS ANGELES COUNTY, CALIFORNIA

FIGURE
B-2



DRAFT

SYMBOL	SAMPLE IDENTIFICATION			ATTERBERG LIMITS			SOIL CLASSIFICATION
	BORING NO.	SAMPLE NO.	DEPTH (ft)	LL	PL	PI	
◆	B-3	6	25	46	25	21	Sandy Lean Clay (CL)
●	B-3	9	40	47	21	26	Sandy Lean Clay (CL)
▲	B-3	10	45	NP	NP	NP	Silty Sand (SM)
×	B-3	11	50	42	16	26	Sandy Lean Clay (CL)

Testing performed in general accordance with ASTM D4318

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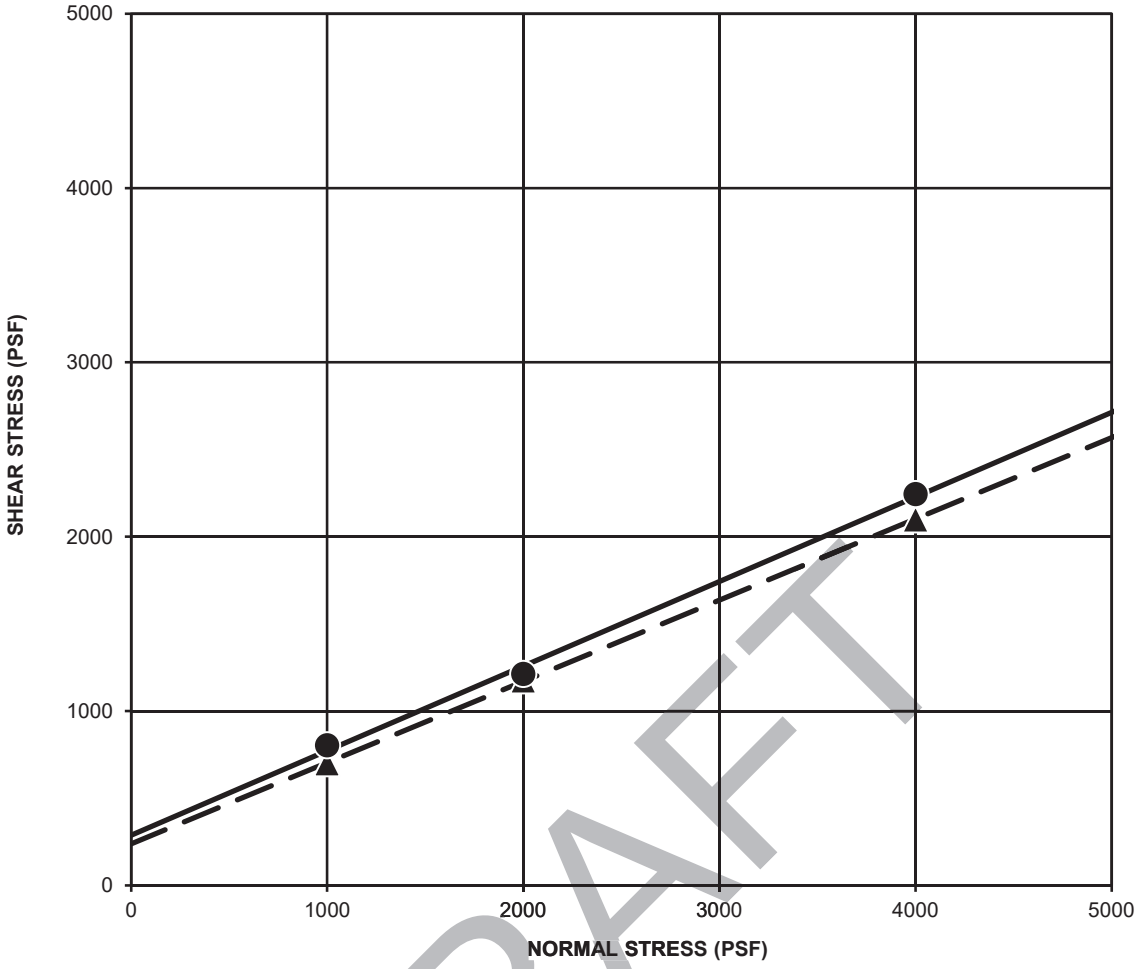
PROJECT NO.:	20230661.001A
TESTED BY:	J. Calderon
DATE:	5/31/2022
CHECKED BY:	M. Magaña
DATE:	6/1/2022

PLASTICITY TESTING

FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA
OF LOS ANGELES COUNTY, CALIFORNIA

FIGURE

B-3



DRAFT

SYMBOL		BORING NO.	SAMPLE NO.	DEPTH (ft)	COHESION (psf)	FRICTION ANGLE (deg)	SOIL CLASSIFICATION
PEAK	●	B-1	1	0-5'	288.0	26	Silty Clayey Sand (SC-SM)
ULTIMATE	▲	B-1	1	0-5'	238.0	25	Silty Clayey Sand (SC-SM)

INITIAL MOISTURE (%):	11.2%
INITIAL DRY DENSTIY (pcf):	107.9
FINAL MOISTURE (%):	18.3%

Normal Stress (psf)	1000	2000	4000
Peak Stress (psf)	804	1212	2244
Ultimate Stress (psf)	700	1175	2100

Performed in general accordance with ASTM D 3080, Remolded to 90% Relative Compaction

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PROJECT NO.:	20230661.001A
TESTED BY:	J. Calderon
DATE:	6/1/2022
CHECKED BY:	M. Magaña
DATE:	6/1/2022

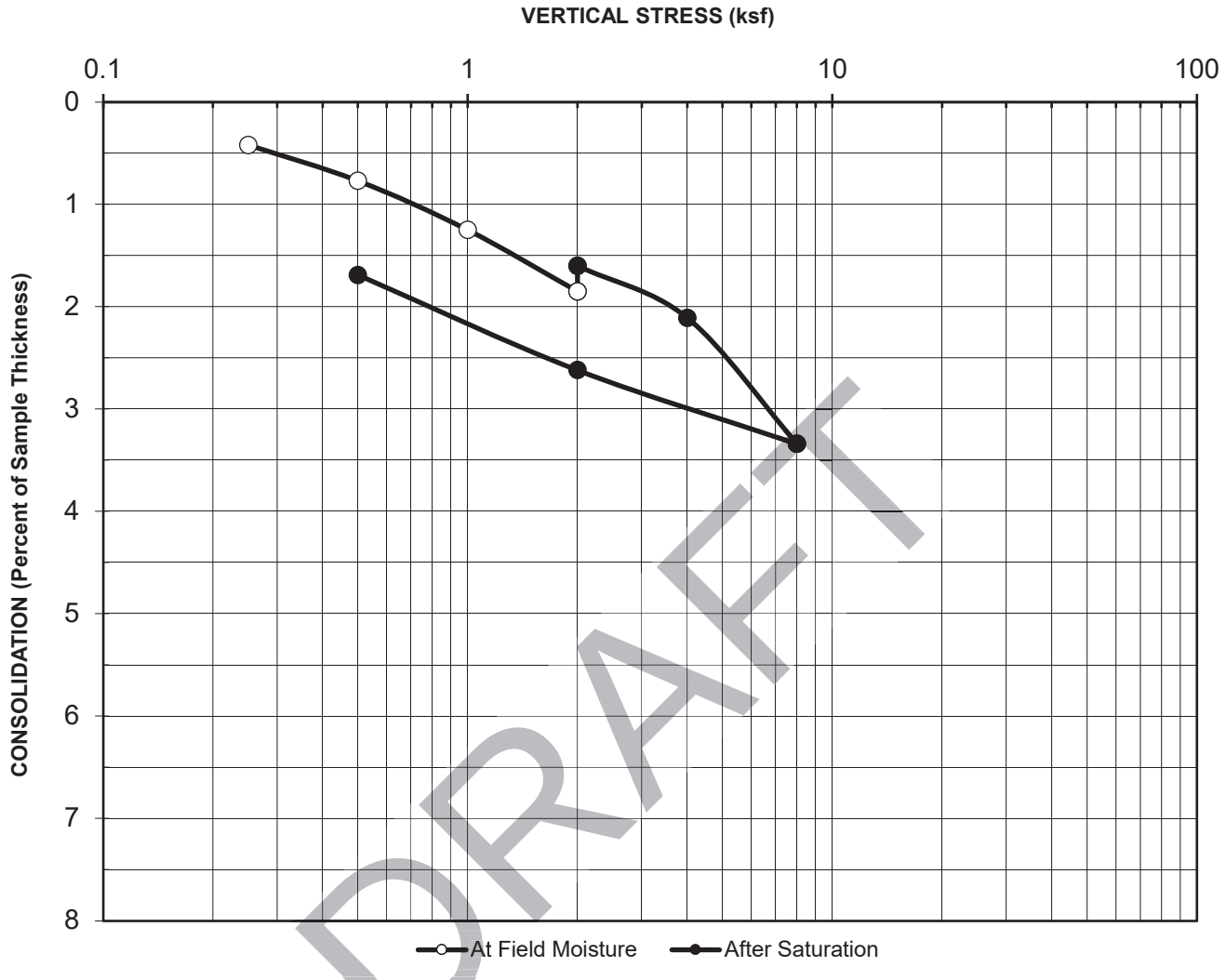
DIRECT SHEAR TEST

FEASIBILITY-LEVEL GEOTECHNICAL INVESTIGATION
ANTELOPE LAC 234 - LANCASTER AREA OF LOS ANGELES COUNTY, CALIFORNIA

FIGURE

B-4

AP Engineering and Testing, Inc.
DBE|MBE|SBE
2607 Pomona Boulevard | Pomona, CA 91768
t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com



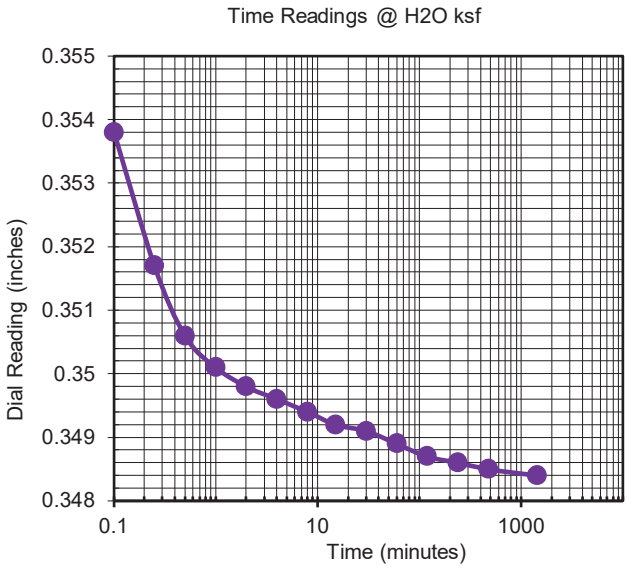
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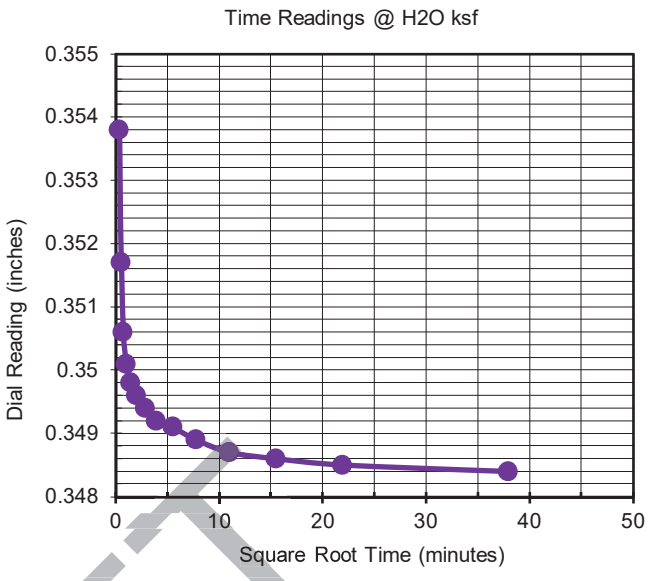
Boring No. :	B-4	Initial Dry Unit Weight (pcf):	89.9
Sample No.:	2	Initial Moisture Content (%):	19.1
Depth (feet):	10	Final Moisture Content (%):	23.7
Sample Type:	Mod Cal	Assumed Specific Gravity:	2.7
Soil Description:	Lean Clay	Initial Void Ratio:	0.87
Remarks:	Swell= 0.25% upon inundation		

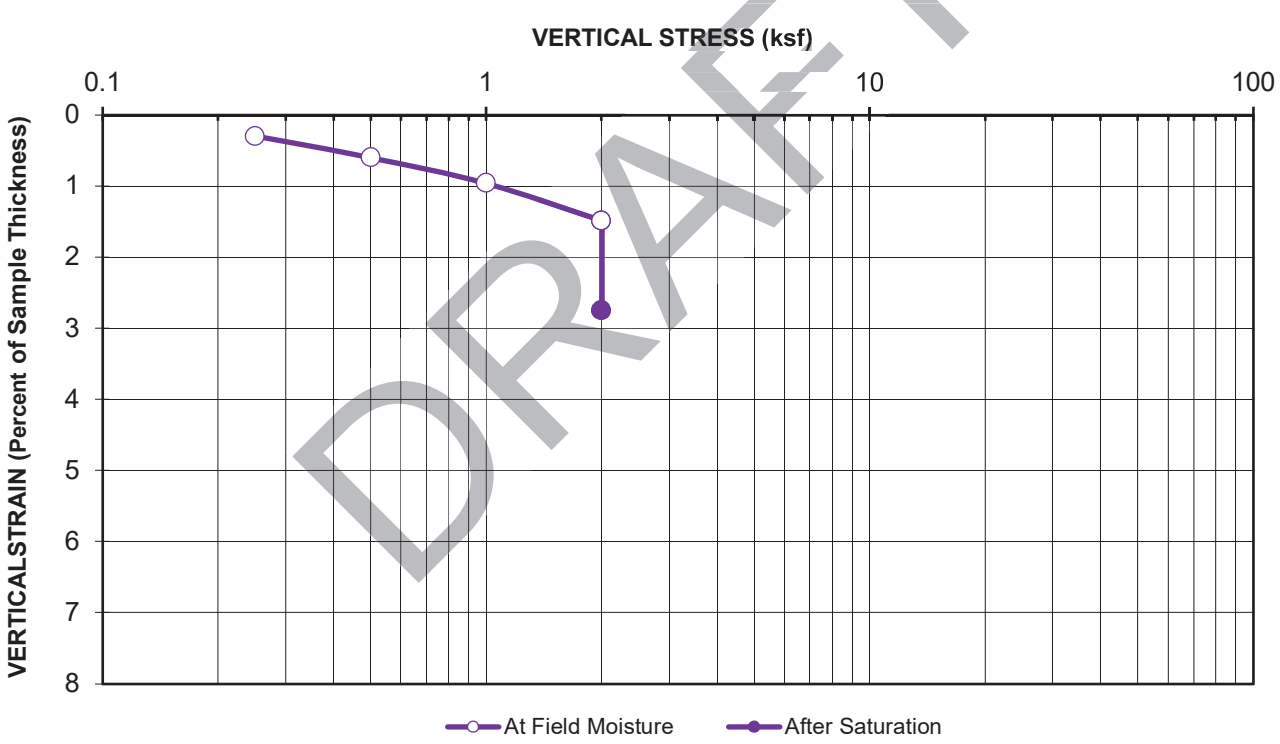
CONSOLIDATION CURVE
ASTM D 2435

Project Name:	NorthPoint: Antelope LAC 234
Project No.:	20230661.001A
Date:	5/26/2022
AP No:	22-0557 **Sheet No:** 1

AP Engineering and Testing, Inc.
DBE|MBE|SBE
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t. 909.869.6316 | f. 909.869.6318 | www.aplaboratory.com







DRAFT

Boring No. :	B-2	Initial Dry Unit Weight (pcf):	112.7
Sample No.:	1	Initial Moisture Content (%):	4.4
Depth (feet):	5	Final Moisture Content (%):	16.4
Sample Type:	Mod Cal	Initial Void Ratio:	0.50
Soil Description:	Well-Graded Sand w/silt		
Remarks:	Collapse = 1.26% upon inundation		

1-D SWELL/COLLAPSE
ASTM D 4546-14, Method B

Project Name:	NorthPoint: Antelope LAC 234
Project No.:	20230661.001A
Date:	5/26/22
AP No:	22-0557

APPENDIX E
Phase I ESA and Haz Mat Memo

Michael Baker INTERNATIONAL

We Make a Difference

MEMORANDUM

To: Eddie Torres

From: Kristen Bogue and Winnie Woo

Date: August 8, 2023

Subject: Antelope Valley Logistics Center – West (AVLC - West) Project – Hazardous Materials Conditions Memorandum

PURPOSE

The *Phase I Environmental Site Assessment, Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005, Los Angeles County, California* (Phase I ESA), dated June 8, 2022, prepared by Rincon Consultants, Inc. (Rincon), was prepared for a 314-acre property that includes Assessor's Parcel Numbers (APNs) 3118-015-001, -003, -004, and -005 located near the City of Lancaster in the unincorporated area of Los Angeles County (County), California. The proposed Antelope Valley Logistics Center – West (AVLC - West) Project (project) encompasses 121 acres of the 314-acre property. As such, the purpose of this Memorandum is to characterize the existing hazardous materials conditions at the project site (APN 3118-015-001) based on the findings presented in the Phase I ESA.

PROJECT LOCATION AND SETTING

The 121-acre project site is specifically located at APN 3118-015-001, unincorporated Los Angeles County, within the eastern portion of the County's *Antelope Valley Town and Country Area Plan*. The site is situated immediately east of SR-14, south of Avenue F, and adjacent to 20th Street West. Undisturbed vacant land uses bound the site to the north, east, south, and west. On a regional basis, the area is accessible via State Route 14 (SR-14), and State Route 138 (SR-138). Local access to the site is provided via Avenue F and 20th Street West.

Currently, the project site consists of vacant and undeveloped land. There has been evidence of homeless encampments, illegal dumping, and off-road vehicle activity on-site and in the general area. The site is relatively flat, with a gentle downward slope towards the north-east. Elevation in the project site ranges approximately 2,301 feet to 2,309 feet above mean sea level.

EXISTING HAZARDOUS MATERIALS CONDITIONS

The Phase I ESA was performed in accordance with the scope and limitations of ASTM Practice E1527-21 for the project site. The Phase I ESA revealed no RECs in connection with the project site. However, the following findings/environmental conditions were noted.

Trash/Debris

According to the Phase I ESA, areas of dumped trash and debris, including scattered hazardous material containers, were observed on the project site during the site reconnaissance conducted on May 10, 2022. Although not considered a recognized environmental condition (REC)[1], this miscellaneous debris would be required to be removed prior to grading activities in accordance with all applicable laws and regulations. If hazardous materials are discovered during removal, proper handling and disposal of such materials would be required to be conducted in accordance with existing laws and regulations pertaining to hazardous waste.

1 A recognized environmental condition (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".



Phase I Environmental Site Assessment

Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005
Los Angeles County, California

prepared for

NorthPoint Development

prepared by

Rincon Consultants, Inc.

Report Date – June 8, 2022
Date of First Research – May 6, 2022

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Rincon Consultants, Inc.

250 East 1st Street, Suite 1400
Los Angeles, California 90012

213 788 4842

info@rinconconsultants.com
www.rinconconsultants.com

June 8, 2022
Project No.: 22-12841

Jack Lac
Western Region Development Manager
NorthPoint Development
4825 Northwest 41st Street, Suite 500
Riverside, Missouri 64150
Via email: jlac@northpointkc.com

Subject: **Phase I Environmental Site Assessment, Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005, Los Angeles County, California**

Dear Mr. Lac:

This report presents the findings of a Phase I Environmental Site Assessment (ESA) completed by Rincon Consultants, Inc. (Rincon) for the property identified as Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005 located near Lancaster in the unincorporated area of Los Angeles County, California (subject property). The Phase I ESA was performed in accordance with our contract dated April 28, 2022, proposal dated May 2, 2022, and task order dated May 5, 2022.

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 American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* (ASTM Standard E1527-13 and 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.

This document has been digitally signed by Julie Lynne Welch on 6/8/2022.

Julie Lynne Welch
Director of Due Diligence

REGISTERED PROFESSIONAL ENGINEER
RYAN THACHER
C 87757
CIVIL
STATE OF CALIFORNIA

This document has been digitally signed and sealed by Ryan Thacher, PhD, PE on 6/8/2022.

Ryan Thacher, PhD, PE
Director of Site Assessment and Remediation

This document has been digitally signed by Savanna Vrevich on 6/8/2022.

Savanna Vrevich
Environmental Scientist

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Executive Summary

This report presents the findings of a Phase I Environmental Site Assessment (ESA) for the property identified as Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005 located near Lancaster in the unincorporated area of Los Angeles County, California (subject property). The Phase I ESA was performed for NorthPoint Development by Rincon Consultants, Inc. (Rincon). NorthPoint Development has requested this assessment and will use the information for the purpose of purchasing the subject property. The subject property is currently undeveloped land. It is our understanding that the proposed future use of the property includes the development of an industrial warehouse facility.

The subject property is located in an area that is primarily composed of undeveloped land. Properties in the vicinity of the subject property include roads and vacant and undeveloped land.

During the completion of this Phase I ESA, Rincon performed a site reconnaissance and an interview with the User of the report (NorthPoint Development). In addition, Rincon reviewed potential vapor migration sources, online agency records, and historical records, including aerial photographs, topographic maps, city directories, fire insurance maps, and building permits. Also, NorthPoint Development provided one document for our review: a title report regarding the subject property. A lien search was not provided by the User (NorthPoint Development).

Deviations resulting in possible data gaps were not encountered during the preparation of this report.

Based on the findings of this Phase I ESA, it is our opinion that there are Recognized Environmental Conditions (RECs) in connection with the subject property as follows.

Recognized Environmental Conditions

1. Stained soil observed on the subject property

Notable Finding

1. Areas of dumped trash and debris on the subject property, including scattered hazardous material containers

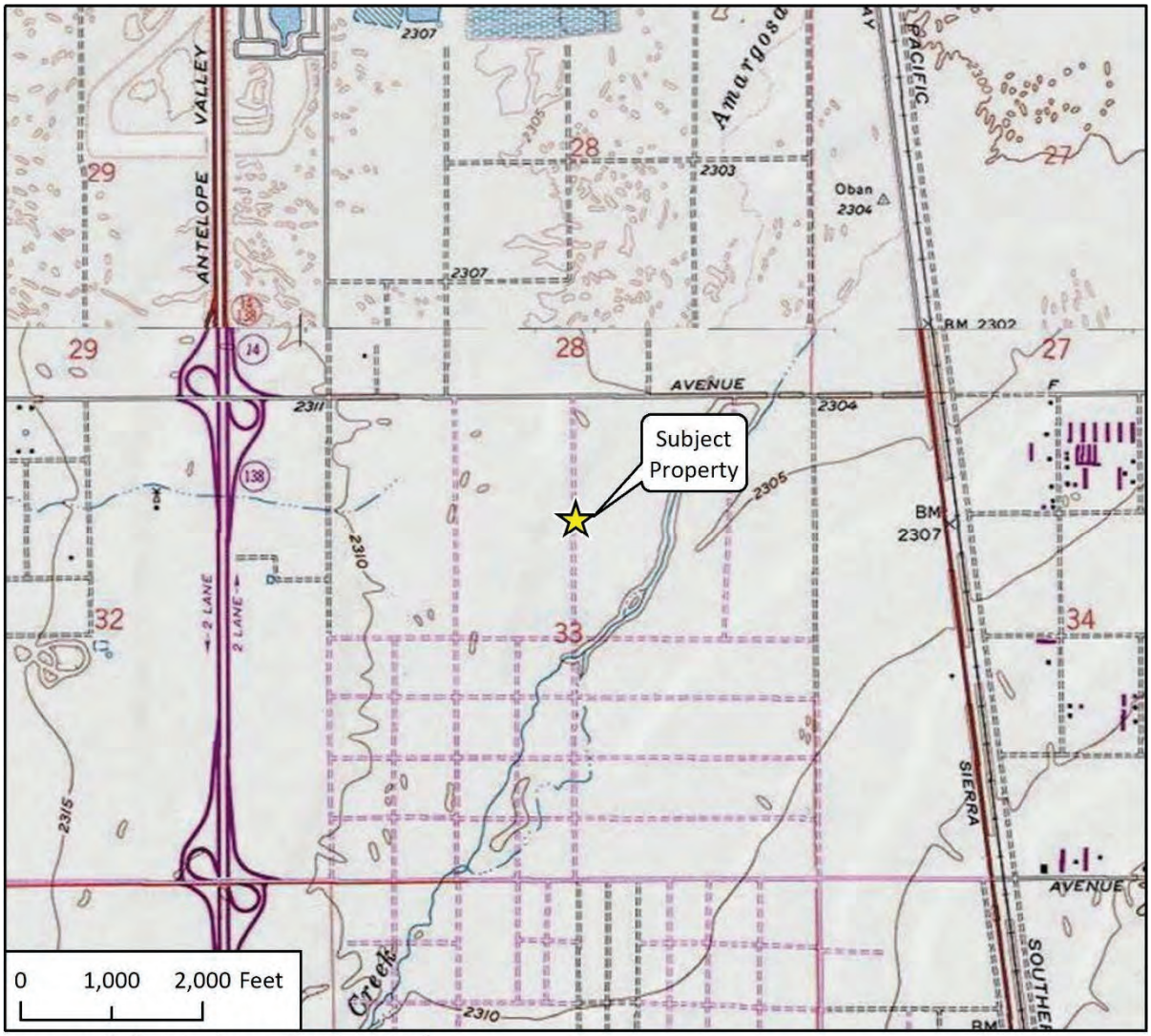
To evaluate the potential subject property impact associated with the stained soil observed on the subject property, a subsurface investigation is warranted.

Although not considered a REC, the trash and debris should be removed from the subject property, and if hazardous materials are present, they should be handled properly. If hazardous materials (within the debris areas) have been released to the environment, proper removal and offsite disposal of the stained soil and a confirmation subsurface investigation are warranted.

1 Introduction

This report presents the findings of a Phase I Environmental Site Assessment (ESA) conducted for the property identified as Assessor's Parcel Numbers 3118-015-001, -003, -004, and -005 located near Lancaster in the unincorporated area of Los Angeles County, California (subject property; Figure 1). The Phase I ESA was performed by Rincon Consultants, Inc. (Rincon) for NorthPoint Development in general conformance with American Society for Testing and Materials (ASTM) E1527-13 and E1527-21, our contract dated April 28, 2022, proposal dated May 2, 2022, and task order dated May 5, 2022. The following sections present our findings and provide our opinion as to the presence of recognized environmental conditions (RECs) on the subject property.

Figure 1 Vicinity



Imagery provided by National Geographic Society, Esri and its licensors © 2022. 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.



1.1 Purpose and Definitions

NorthPoint Development has requested this assessment and will use the information for the purpose of purchasing 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).

Recognized Environmental Condition (REC)

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".

Controlled REC

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)".

Historical REC

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".

De minimis

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".

Property Use Limitation

A Property Use Limitation (PUL) 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".

Significant Data Gap

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".

Notable Finding

Although not defined by ASTM E1527-13 or 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.

1.2 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 NorthPoint Development, 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 NorthPoint Development.
- Conducted interviews with other property representatives (e.g., key site manager, occupants), as applicable.
- Reviewed available NorthPoint Development-provided information (e.g., previous environmental reports, title documentation).
- Requested Title Search Information Reports from the User of the report.

1.3 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; however, stained soil indicative of a potential chemical release was identified. Additional research, including surface or subsurface sampling and analysis, can reduce NorthPoint Development's risks, but no techniques commonly employed can eliminate these risks altogether.

In addition, pursuant to ASTM E1527-13 and 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.

1.4 ASTM Deviations

Deviations from ASTM E1527-13 and E1527-21 practice were not encountered during the completion of this Phase I ESA. In addition, a lien search was not completed as part of this assessment; however, one was requested from the user.

1.5 User Reliance

NorthPoint Development has requested this assessment and will use the information for the purpose of purchasing or acquiring the subject property. This Phase I ESA was prepared for use solely and exclusively by NorthPoint Development, Los Angeles County, Federal Emergency Management Agency, California Department of Fish and Wildlife, and the United States Army Corp of Engineers, and no other person or entity may rely upon the report without the express written consent of Rincon. 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.

1.6 Site Description

Location

The subject property is an approximately 314-acre property located east of State Route (SR) 14 and south of West Avenue F near Lancaster in the unincorporated area of Los Angeles County, California (Figure 2). The property is identified as Assessor's Parcel Numbers (APNs) 118-015-001, -003, -004, and -005.

Subject Property and Vicinity General Characteristics

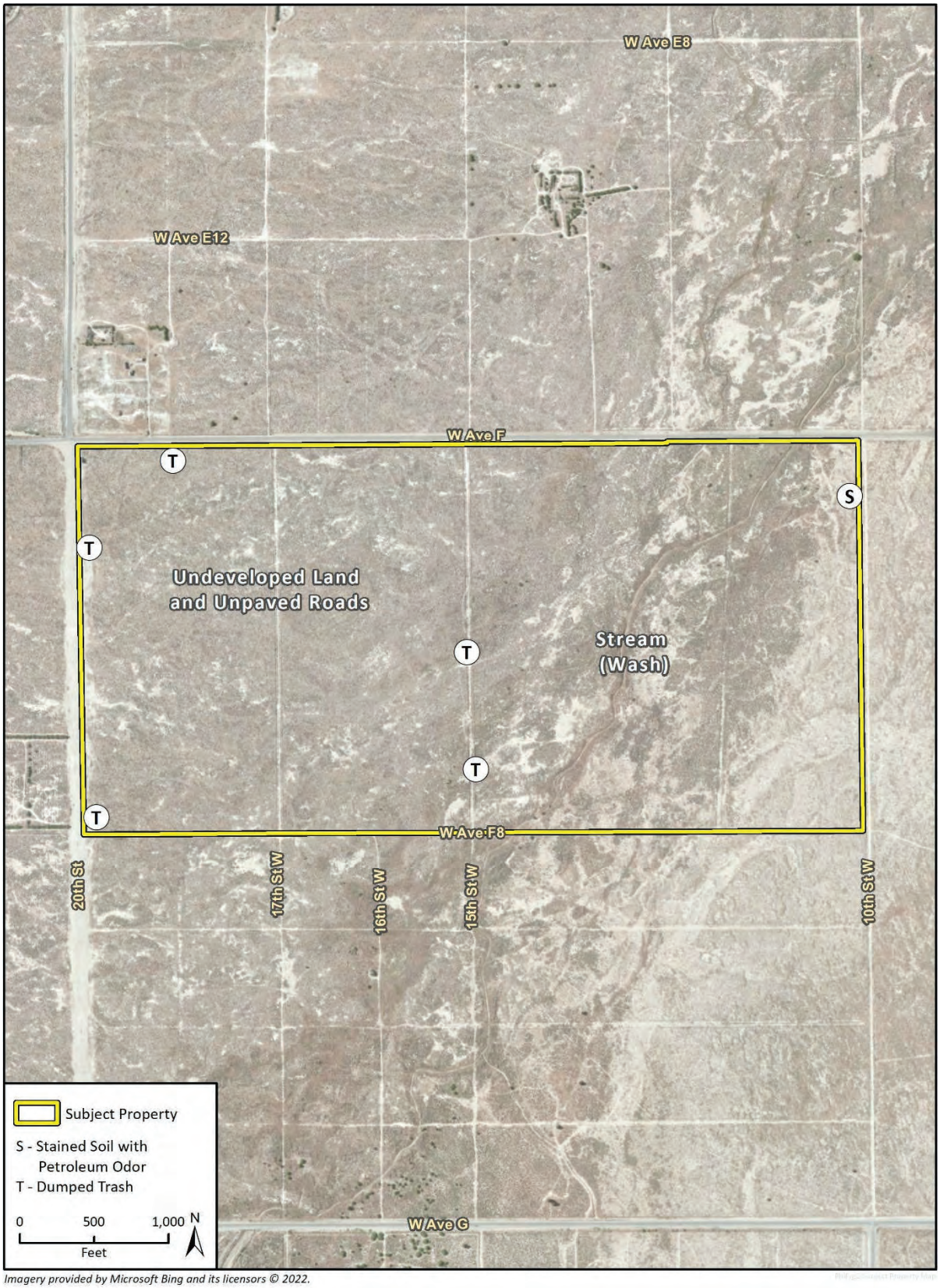
The subject property is currently undeveloped land with a northeast-southwest oriented stream traversing the eastern portion of the subject property.

The subject property is located in an area that is primarily composed of undeveloped land. Properties in the vicinity of the subject property include roads and vacant and undeveloped land. The current adjacent land uses are described in Table 1 and depicted on Figure 3.

Table 1 Current Uses of Adjacent Properties

Area	Use
Northern Properties	West Avenue F followed by vacant and undeveloped land
Eastern Properties	10th Street West followed by undeveloped land
Southern Properties	West Avenue F8 followed by undeveloped land and unpaved roads
Western Properties	20th Street West followed by vacant and undeveloped land and SR 14

Figure 2 Subject Property



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Figure 3 Adjacent Land Use



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Descriptions of Structures, Roads, and Other Improvements on the Subject Property

During the site reconnaissance, no structures, roads, or other improvements were observed on the subject property. The subject property was observed to be unfenced. Access to the subject property is available from West Avenue F, 20th Street West, 10th Street West, and West Avenue F8.

The following utility providers service the area:

- Electrical Service – Lancaster Choice Energy and Southern California Edison
- Natural Gas Service – Southern California Gas Company
- Water Service – Los Angeles County Water Works District
- Sewer Service – Los Angeles County Sanitation District (District 14)
- Solid Waste Service – Waste Management
- Telecommunications – Frontier Communications

2 User-Provided Information and Responsibilities

2.1 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.

A copy of the title search information records provided by the User is included in Appendix A. Based on our review of the title search information records, the interest in the land is vested in San Yu Enterprises, Inc. and easements for public road and highway and sanitary sewers exist on the subject property.

2.2 User Questionnaire

As described in ASTM E1527-13 Section 6 and E1527-21 Section 6, a User Questionnaire as provided by ASTM E1527-13 Appendix X3 and E1527-21 Appendix X3 was provided to NorthPoint Development. 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. Jack Lac, Western Region Development Manager with NorthPoint Development, completed the User Questionnaire on May 9, 2022. 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 due diligence on the subject property prior to proceeding on an industrial warehouse project NorthPoint Development is planning.
- A purchase 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 reviewed 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

2.3 User-Provided Information of Concern

Based on the information obtained during our review of user-provided documents, no hazardous material conditions with the potential to impact the subject property were identified.

3 Records Review

3.1 Physical Setting Sources

Topography

The current USGS topographic map (Lancaster West Quadrangle 2018) indicates that the subject property is situated at elevations ranging from approximately 2,300 to 2,310 feet above mean sea level with topography sloping down to the northeast. The adjacent topography consists of relatively flat land. A copy of the current USGS topographic map is included in Appendix B (ERIS 2022).

Geology and Hydrogeology

Based on information provided by NorthPoint Development, there are no site-specific geotechnical or geologic reports available for the subject property.

However, according to the California Geological Survey (CGS 2010), the subject property is underlain by modern alluvium, which is described as unconsolidated to weakly consolidated, fluvial gravel, sand, and silt, which is loose, yellowish-grey to brown sand, silt, and pebble-cobble gravel consisting predominantly of moderately sorted medium- to very coarse-grained arkosic sand.

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. Groundwater is reported to be between 60 and 80 feet below ground surface (bgs) at a site located approximately 1.5 miles to the east of the subject property (Lahontan RWQCB 2014).

Additionally, groundwater is reported to be between 58 and 71 feet bgs and generally flows toward the northwest at a site located approximately 2 miles to the north of the subject property (Los Angeles County Sanitation Districts 2022).

3.2 Government Record Sources

Rincon outsourced with a regulatory database search contractor 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 property. A copy of the database report, which specifies the ASTM E1527-13 and ASTM E1527-21 search distance for each public list, is included as Appendix B. As shown on the 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 Environmental Risk Information Services (ERIS) 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. The following information is based on our review of the Map Findings Summary and the information contained in the database report.

Subject Property

The subject property was not listed on any of the regulatory databases reviewed.

Offsite Properties

Offsite properties listed in the database report fall under two general categories of databases: those reporting unauthorized releases of hazardous substances (e.g., Leaking Underground Storage Tank [LUST], National Priority List [a.k.a. Superfund sites], and corrective action facilities), and those reported as businesses permitted to use hazardous materials or generate hazardous wastes, for which an unauthorized release has not been reported to a regulatory agency.

Rincon reviewed the database maps and select detailed listings to evaluate their potential to impact the subject property, based on the following factors:

- 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 the Geology and Hydrogeology section 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 in Table 2. In accordance with ASTM E1527-13 and E1527-21, contamination migration pathways in soil, groundwater, and soil vapor were considered in our analysis of offsite properties of potential environmental concern.

Orphan Listings

No orphan or unmapped site listings were reported in the database report.

Table 2 Database Listing Summary of the Subject Property and Select Sites Within One Mile of the Subject Property

Site Name	Database Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
Nearby Sites					
Avenue N School	1	Avenue N/35th Street West	0.4 Mile Southeast* (mis-mapped, actually 7 miles SW of the subject property)	SCH, ENVIROSTOR	This School Investigation site was evaluated by the California Department of Toxic Substances Control (DTSC) for a potential school. A Phase I ESA conducted for the site indicated that the approximately 35-acre site was historically undeveloped land, and the DTSC approved the Phase I ESA and issued a No Further Action determination for the case.

*Mis-mapped by ERIS and EnviroStor. Based on street information, this site is actually located approximately 7 miles southwest of the subject property.

Regulatory agency information reviewed for the listings in the table above are summarized in the Review of Agency Files section of this report.

3.3 Review of Agency Files

As a follow-up to the database search, Rincon reviewed regulatory information for the subject property and facilities within the specified search radii that were interpreted to have the potential to impact the subject property, based on one or more factors previously discussed (e.g., distance, open case status, upgradient location, soil vapor migration).

Because no database-listed sites were interpreted to be of potential environmental concern to the subject property, no agency files were reviewed as part of this research effort.

Subject Property

The subject property was not listed in any of the databases searched or the online databases reviewed; therefore, records regarding the subject property were not requested from regulatory agencies.

Adjacent Properties

Adjacent properties were not listed in any of the databases searched or the online databases reviewed; therefore, records regarding adjacent properties were not requested from regulatory agencies.

Nearby Release Sites

One nearby site, Avenue N School (Avenue N/35th Street West) was identified by ERIS to be within 0.5 mile of the subject property. However, based on street information, Rincon determined that this site was mismapped by ERIS and EnviroStor and is actually located approximately 7 miles southwest of the subject property. Based on distance from the subject property, this site is not expected to impact the subject property.

3.4 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 2022).

3.5 Review of City of Los Angeles Information Regarding Methane Zones

According to the Los Angeles County Department of Public Works Solid Waste Information Management System, the subject property is not located within 300 feet of an oil or gas well, or within 1,000 feet of a methane-producing site (Los Angeles County Department of Public Works 2022).

3.6 Review of National Pipeline Mapping System Records

A review of the National Pipeline Mapping System (NPMS) online Public Map Viewer indicates that no natural gas transmission pipelines or hazardous liquid pipelines are located on the subject property or adjacent properties. Additionally, no pipeline-related accidents or incidents are mapped within 0.25 mile of the subject property (United States Department of Transportation 2022).

3.7 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 2022).

Our May 10, 2022 review of the California Statewide PFAS Investigation online Public Map Viewer indicates that there are no current airport, chrome plating, DoD, landfill, or publicly owned treatment works facilities with PFAS orders listed as located within 0.5 mile of the subject property (SWRCB 2022). Based on our review of the SWRCB's March 12, 2021 Bulk Fuel Terminal/Refinery Investigative Order, the subject property is not listed on the Bulk Fuel Storage Terminals and Refineries List (Attachment 1 of the Order). In addition, none of the Bulk Fuel Storage Terminals or Refineries on the list are located within 0.5 mile of the subject property (SWRCB 2021).

However, there is one publicly owned treatment works facility listed as located two miles north of the subject property: the Lancaster Water Reclamation Plant (1865 West Avenue D), which has waste discharge requirements with the oversight of the Lahontan RWQCB and was issued a PFAS investigation order in 2020. A January 2022 PFAS report available on GeoTracker for the facility indicates that PFAS was detected in influent, effluent, biosolids, and groundwater samples collected in 2020 and 2021. Groundwater at this facility is reported to be between 45 and 97 feet bgs and generally flows toward the north (i.e., away from the subject property).

Additionally, there is one current landfill listed as located approximately 1.5 miles east of the subject property: the Lancaster Landfill and Recycling Center (600 East Avenue F), which is a Title 27 municipal solid waste landfill, open (accepting waste) as of 2022, and is undergoing monitoring with the oversight of the Lahontan RWQCB. A PFAS work plan was submitted to the SWRCB in May 2019 and the SWRCB accepted the work plan in November 2019. A February 2020 data submittal to comply with the SWRCB PFAS order indicates that PFAS were detected in the leachate and groundwater monitoring well samples collected at the landfill site. Groundwater at the landfill site is reported to be generally between 55 and 80 feet bgs and flows generally to the southeast (i.e., away from the subject property).

Our May 10, 2022 review of the California Statewide Drinking Water System Quarterly Testing Results online Public Map Viewer indicates that perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were not detected in two drinking water wells (in the Mitchell's Avenue Mobile Home Park and Lancaster Park Mobile Home Park public water systems) located approximately one mile north and one mile east of the subject property, respectively, and tested quarterly as part of a PFAS investigative order (SWRCB 2022). PFOA and PFOS were also not

detected in one drinking water well at the Lancaster Landfill (in the Waste Management of Lancaster public water system), located approximately 1.7 miles east of the subject property (SWRCB 2022).

3.8 Records Review Information of Concern

Based on the information obtained during our records review documented above, properties in the vicinity are not expected to impact the subject property. Although PFAS was detected in groundwater at two nearby sites, these sites are downgradient of the subject property, and therefore groundwater impacts at the subject property resulting from plume migration are not anticipated.

4 Historical Records

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 C.

4.1 Methodology

Review of Aerial Photographs

Aerial photographs from ERIS's aerial photograph collection were obtained. In addition, a current aerial photograph from Google Earth was reviewed. The aerial photographs were reviewed on May 11, 2022. Note that the eastern and western adjacent properties are only partially depicted in the aerial photographs.

Review of Historical Topographic Maps

Historical topographic maps from ERIS's map collection were obtained. The historical topographic maps were reviewed on May 10, 2022.

Review of City Directory Listings

ERIS was contracted to provide copies of city directory listings for the subject property. The city directory listings were reviewed on May 11, 2022. As indicated in the attached report, no records were provided for the subject property or eastern, southern, or western adjacent properties.

Review of Fire Insurance Maps

ERIS 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 City of Lancaster Building Permit Records

Because the subject property has never been developed, building permit records were not reviewed.

Other Historical Sources

Based on the sufficiency of historical information obtained for the purposes of this report, no additional historical sources were reviewed.

4.2 Summary of Subject Property and Adjacent Historical Uses

Subject Property

The topographic maps reviewed depict the subject property as undeveloped land with a northeast-southwest oriented stream (Amargosa Creek) traversing the eastern portion of the subject property

in 1930, 1933, 1948, and 1958, and with the addition of three north-south oriented unpaved roads in 1974.

The aerial photographs reviewed depict the subject property as undeveloped land with a northeast-southwest oriented stream traversing the eastern portion of the subject property from 1928 to present day, with the addition of three north-south oriented unpaved roads beginning in 1968.

Northern Adjacent Property

The topographic maps reviewed depict the northern adjacent property as undeveloped land with a stream and water well in 1930 and 1933, and four buildings, an unpaved road, and a stream in 1947 and 1948.

The aerial photographs reviewed depict the northern adjacent property as undeveloped land with two areas of vegetation/trees and residential structures from 1928 to 1968. The southwestern area of vegetation/trees and residential structures also includes three aboveground storage tanks (located near the water well depicted in the topographic maps) in 1948 and 1953; the tanks appear to have been removed by 1959. The residential structures in the northeastern area of vegetation/trees have been demolished by 1974, and the area remains vacant through present day. The residential structures in the southwestern area of vegetation/trees have been demolished by 2003, when the area appears to be used for the storage of trailers/shipping containers. The trailers/shipping containers have been removed by 2009 and the area remains vacant to present day.

City directories provided indicate that the northern adjacent property was occupied by the following:

- 1815 West Avenue F: Residential in 1995, 2000, 2003, and 2006

Eastern Adjacent Property

The topographic maps reviewed depict the eastern adjacent property as undeveloped land in 1930, 1933, 1948, 1958, and 1974.

The aerial photographs reviewed depict the eastern adjacent property as undeveloped land from 1928 to present day, with the addition of an unpaved road beginning in 1948.

Southern Adjacent Property

The topographic maps reviewed depict the southern adjacent property as undeveloped land with a stream in 1930, undeveloped land with a stream and an unpaved road in 1933, 1948, and 1958, and undeveloped land with a stream and several unpaved roads in 1974.

The aerial photographs reviewed depict the southern adjacent property as undeveloped land with a stream from 1928 to present day, with the addition of several unpaved roads beginning in 1968.

Western Adjacent Property

The topographic maps reviewed depict the western adjacent property as undeveloped land with a pond in 1930, 1933, and 1948, with the addition of two unpaved roads, a building, and a stream in 1958; and undeveloped land with a stream and one unpaved road in 1974.

The aerial photographs reviewed depict the western adjacent property as undeveloped land with two rows of trees from 1928 to present day.

4.3 Gaps in Historical Sources

Several gaps of greater than five years were identified in the historical records reviewed, from 1933 to 1943, 1959 to 1968, 1974 to 1980, 1980 to 1987, 1987 to 1994, and 1994 to 2003. These gaps are considered insignificant because the subject property use appears to be similar prior to and following the gaps.

4.4 Historical Use Information of Concern

Based on the information obtained from the historical records review, no environmental concerns from historical uses of the subject property or adjacent properties have been identified.

5 Interviews

Rincon attempted to perform interviews, as described below, 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.

5.1 Interview Summary

Interview with Owner

An interview questionnaire was provided to the property owner, San Yu Enterprises, prior to the site reconnaissance. According to NorthPoint Development via telephone correspondence on June 8, 2022, Jack Lac, Western Region Development Manager with NorthPoint Development, completed the Owner Questionnaire with Ben Chen of San Yu Enterprises via telephone on May 19, 2022. 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 and was previously vacant land.
- There are no hazardous materials or petroleum products stored or used on the subject property.
- No hazardous wastes are generated at the subject property.
- A geotechnical investigation is underway and results will be provided to Rincon.
- A title report is available for the subject property and is reviewed in Section 2 of this Phase I ESA.

The property owner indicated that he 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 polychlorinated biphenyls, or records indicating the presence of pesticides or herbicides at the subject property.

The property owner indicated that he 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, he 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.

Interview with Site Manager

A site manager was not identified to Rincon.

Interviews with Occupants

Because the subject property is undeveloped land, no occupants were interviewed as part of this research effort.

Interviews with Local Government Officials

Based on the sufficient information obtained from various sources, no local government officials were interviewed as part of this Phase I ESA.

Interviews with Others

Rincon did not attempt to interview neighboring property owners or others as part of this Phase I ESA.

5.2 Interview Information of Concern

Based on the information obtained during interviews, no environmental concerns have been identified.

6 Site Reconnaissance

Rincon performed a reconnaissance of the subject property on May 10, 2022. 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.

6.1 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, and
3. Observing the subject property from driveways, roads, and walking paths.

Because of the large size of the subject property, several east-west or north-south transects were completed across the subject property.

6.2 General Subject Property Information

Current Use of the Property and Adjacent Properties

The subject property is currently undeveloped land with unpaved roads and a stream. Adjacent properties include vacant and undeveloped land.

Past Use of the Property and Adjacent Properties

Based on our site reconnaissance, past uses at the subject property and adjacent properties are not readily apparent.

Current or Past Uses in the Surrounding Areas

The subject property is surrounded by vacant and undeveloped land as detailed in the Site Description section of this report. Past uses of the surrounding area are not readily apparent based on the site reconnaissance.

Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

Geologic, hydrogeologic, hydrologic, and topographic information are as previously stated in the Physical Setting Sources section of this report.

General Description of Structures

During the site reconnaissance, no structures, roads, or other improvements were observed on the subject property.

Roads

West Avenue F is located adjacent to the north, 10th Street West is located adjacent to the east, West Avenue F8 is located adjacent to the south, and 20th Street West is located adjacent to the west of the subject property.

Potable Water Supply

Los Angeles County Water Works District does not currently supply potable water to the subject property.

Sewage Disposal System

No sewage disposal system is located at the subject property.

Stormwater Runoff

Surface water runoff at the subject property appears to follow local topography, and will likely rapidly infiltrate as the subject property is undeveloped.

6.3 Interior and/or Exterior Observations

Table 3 provides details regarding the interior and/or exterior observations noted during the site reconnaissance. Photographs 1 through 10 are shown below.

Table 3 Interior and/or 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 observed
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 Polychlorinated Biphenyls (PCBs)	No	N/A	None observed
Heating/Cooling Systems	No	N/A	None observed
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
Pits, Ponds, and Lagoons	No	N/A	None observed

Item	Observed	Photograph Number	Description
Stained Soil or Stained Pavement	Yes	7	One approximately 2-foot by 2-foot area of stained soil with a petroleum odor was observed along the eastern boundary of the subject property.
Stressed Vegetation	No	N/A	None observed
Solid Waste/Debris	Yes	4-6	Dumped trash and debris, including scattered hazardous material containers, were observed throughout the subject property.
Wastewater	No	N/A	None observed
Wells	No	N/A	None observed
Septic Systems/Effluent Disposal Systems	No	N/A	None observed
Soil Piles	No	N/A	None observed
Fill Material	No	N/A	None observed

Photographs 1-4



Photograph 1. View of the subject property, facing north.



Photograph 2. View of a stream/wash in the eastern portion of the subject property, facing south.



Photograph 3. View of a culvert along the northern boundary of the subject property, facing north.



Photograph 4. View of a homeless encampment on the subject property.

Photographs 5-8



Photograph 5. View of dumped trash on the subject property.



Photograph 6. View of dumped trash on the subject property.



Photograph 7. View of stained and odorous soil along the eastern boundary of the subject property.



Photograph 8. View of the northern adjacent property across West F Street, vacant/undeveloped land, facing north.

Photographs 9-10



Photograph 9. View of the southern adjacent property, facing south.



Photograph 10. View of the eastern adjacent property, undeveloped land, facing east.

6.4 Site Reconnaissance Information of Concern

Based on the information obtained during the site reconnaissance, the following concerns have the potential to impact the subject property:

- Stained and odorous soil along the eastern boundary of the subject property
- Areas of dumped trash and debris on the subject property, including scattered hazardous material containers

7 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 contaminants of concern (COCs)

Groundwater depth and flow direction is also utilized to determine risk of vapor migration. Groundwater in the vicinity of the subject property is reportedly present between 60 and 80 feet and flows to the northwest (Section 3.1).

If known or suspect contaminated sites are located:

- 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,

Then online resources are reviewed to determine the extent of the contaminated plume at those sites.

The following describes search distances for contaminated plumes of petroleum hydrocarbons (30 feet from the subject property) and other COCs (100 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.

7.1 Petroleum Hydrocarbons

Based on our review of the database report and other information as indicated above, there are no known or suspect petroleum hydrocarbon-impacted sites within 528 feet of the subject property. Therefore, per ASTM E2600-15, as this distance exceeds the 30-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 petroleum hydrocarbon vapors from listed sites.

7.2 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.

7.3 Vapor Intrusion Information of Concern

Based on the information above, there are no vapor intrusion threats from petroleum hydrocarbons within 30 feet or other COCs within 100 feet of the subject property.

8 Evaluation

Rincon has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 and E1527-21 for the subject property, located near Lancaster in unincorporated Los Angeles County, California. Any exceptions to, or deletions from, this practice are described in the Deviations section of this report. This assessment has revealed RECs in connection with the subject property, as detailed below in Table 4.

8.1 Significant Data Gaps

Deviations that could result in data gaps were not identified during the preparation of this report.

Table 4 Findings, Opinions, Conclusions, and Recommendations

No.	Finding	Opinion	Conclusion	Recommendations
1	Stained and odorous soil on the subject property	During the site reconnaissance, one approximately 2-foot by 2-foot area of stained soil with a petroleum odor was observed along the eastern boundary of the subject property. The stained soil is considered a REC.	REC	Subsurface Investigation
2	Areas of dumped trash and debris on the subject property, including scattered hazardous material containers	During the site reconnaissance, areas of dumped trash and debris were observed throughout the subject property, including scattered hazardous material containers.	Notable Finding	Proper Removal and Offsite Disposal

To evaluate the potential subject property impact associated with the stained soil observed on the subject property, a subsurface investigation is warranted.

Although not considered a REC, the trash and debris should be removed from the subject property, and if hazardous materials are present, they should be handled properly. If hazardous materials (within the debris areas) have been released to the environment, proper removal and offsite disposal of the stained soil and a confirmation subsurface investigation are warranted.

9 References

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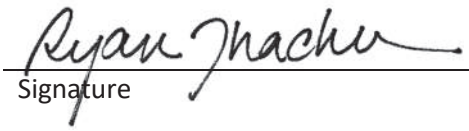
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10 Signatures of Environmental Professionals

The qualified environmental professionals that are responsible for preparing the report include Ryan Thacher, Julie Lynne Welch, 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."



Signature

June 8, 2022
Date

Director of Site Assessment and Remediation
Title

Ryan Thacher, PhD, PE
Name

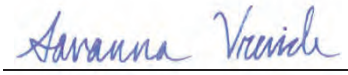


Signature

June 8, 2022
Date

Julie Lynne Welch
Name

Director of Due Diligence
Title



Signature

June 8, 2022
Date

Savanna Vrevich
Name

Environmental Scientist
Title

11 Qualifications of Environmental Consultants

The environmental consultants responsible for conducting this Phase I ESA and preparing the report include Ryan Thacher, Julie Lynne Welch, and Savanna Vrevich. 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	12 years
Julie Lynne Welch			BS Environmental Engineering	26 years
Savanna Vrevich			BS Environmental Studies	7 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 12 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.

Julie Lynne Welch serves as the Director of Rincon's Due Diligence team, which involves the execution of hundreds of Phase I and II ESAs annually. Ms. Welch has 26 years of professional experience in the field of environmental science and assessment, during which time she has managed and contributed to a variety of successful land use, water and energy planning, and residential, commercial, industrial, and infrastructure projects.

She holds a Bachelor of Science degree in environmental engineering from Rensselaer Polytechnic Institute, Troy, New York, a Hazardous Materials Management Certificate from the University of California, Santa Barbara Extension program, and a Business Management Certificate from the University of California, San Diego Extension program.

Ms. Welch was also a member of the ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action (2021) and routinely attends webinars and conferences regarding ASTM E1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

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 ESAs and preparation of other environmental reports for a variety of commercial, rural, and industrial properties.

Appendix A

Interview Documentation

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

User Questionnaire

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

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.

We respectfully request that you fill out this form and email it to Lauren Roenicke at LRoenicke@Rinconconsultants.com within one week from the date of this transmittal.

Project Description

1. **Why is the Phase I ESA required or being performed?**

   This is a requirement for our due diligence on the subject property prior to proceeding forward on an industrial warehouse project we are planning.

2. **What type of property transaction is planned? (i.e. sale, purchase, exchange)**

   Purchase.

3. **What is the entire site address?**

   No addresses available. See APNs.

4. **What is the Assessor's Parcel Number(s)?**

   3118-015-001, 003, 004, and 005

5. **Are any considerations beyond the requirements of Practice E1527 to be considered? (i.e. lien search, asbestos & lead based paint, radon)**

   No.

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

6. **Identify all parties who will rely on the Phase I report.**

NorthPoint Development, LA County, FEMA, CDFW, US Army Corp of Engineers

7. **Identify the Site Manager/Contact and how the contact can be reached.**

Jack Lac - see my email signature.

8. **Identify the Site Owner and how the owner can be reached.**

Ben Chen - contact through Jack Lac @ NorthPoint Development.

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 Iand II ESAs, Environmental Impact Studies)?**

N/A

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

Subject Property Information

1. **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:

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

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 **do** 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 **do** 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.

   a. **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:

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:

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:

8. Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

Please 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:

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

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: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

This questionnaire was completed by (please print)

Name	Jack Lac
Title	Western Region Development Manager
Firm	NorthPoint Development
Street Address	3315 N. Oak Trafficway
City, State, Zip Code	Kansas City, MO 64116
Phone Number	626-524-5519
Fax Number	

What is the Preparer's relationship to the property (i.e., owner, occupant, property manager, employee, agent, consultant, etc.)? Buyer of property (under contract with Seller).

Copies of the completed questionnaire should be faxed, emailed (preferably) or mailed to:

Rincon Consultants, Inc.
Attention: Environmental Site Assessment Division
2215 Faraday Avenue, Suite A
Carlsbad, CA 92008
Fax: (760) 918-9444
Email: LRoenicke@rinconconsultants.com

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's knowledge no material facts have been suppressed or misstated.

Signature Jack Lac Digitally signed by Jack Lac Date: 2022.05.09 15:40:29 -07'00' Date

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Property Owner Interview Questionnaire

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

This questionnaire should be completed by the current property owner or a designated representative of the current property owner. We respectfully request that you fill out and return this form via fax at (760) 918-9444 or email to us at LRoenicke@rinconconsultants.com within one week from the date of this transmittal.

1. Was the subject property or any adjoining property ever used as:

- ☐ an airport
- ☐ a fire training area
- ☐ a gasoline or other fueling station
- ☐ a motor vehicle repair facility
- ☐ a commercial printing facility
- ☐ a dry cleaners
- ☐ a photo developing laboratory
- ☐ a metal plating facility
- ☐ a farm
- ☐ 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

Please check all that apply above and describe:

The site is and has been vacant land to our knowledge.

2. Please describe the current land uses of the subject property and those surrounding your property. Please indicate all businesses/companies located on property.

2a. Current Use of Subject Property:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	It is zoned M-1 industrial but is vacant land.

2b. Current Use of Northern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

2c. Current Use of Eastern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

2d. Current Use of Southern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

2e. Current Use of Western Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

3. Please describe the previous land uses of your property and those surrounding your property. Include property ownership and dates of operation if known.

3a. Previous Use of Subject Property:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

3b. Previous Use of Northern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

3c. Previous Use of Eastern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

3d. Previous Use of Southern Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

3e. Previous Use of Western Adjoining Properties:

Please check all that apply:	Please include a brief description of current operation:
☐ Commercial (retail, offices, etc.) ☐ Residential (single family or apartments) ■ Industrial (manufacturing, warehousing, processing) ☐ Other- Please Describe	All adjacent properties are zone M-1 but are all vacant land.

4. Who is the current owner of the property?

Ben Chen - San Yu Enterprises

5. When did current ownership begin?

6. What is the age of the on-site facility?

N/A

7. Who is the previous owner of the property?

8. Please indicate the property's current:

Electrical service provider	SCE
Natural Gas service provider	N/A
Water service provider	N/A
Sewer service provider	LA County Sanitation District (District 14)
Solid waste hauler	N/A

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

9. To the best of your knowledge, has your facility previously or does your facility currently store or use any of the following in individual containers larger than 5 gallons in volume or 50 gallons in the aggregate? (if Yes or Unknown, include how many, type, and size)

☐ Damaged or discarded automotive or industrial batteries	
☐ Paints	
☐ Oils or solvents	
☐ Motor vehicle fleet	
☐ Pesticides or herbicides	
☐ Other chemicals or hazardous substances	

10. Please indicate any wastes generated at the facility:

Hazardous Waste	Quantity	Disposal Method

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 ■ No ☐ Unknown	If Yes or Unknown, please describe:

12. Are there currently or to the best of your knowledge have there been previously, any evidence of fill dirt having been brought onto the property that originated from a contaminated site or that is of an unknown origin?

☐ Yes ■ No ☐ Unknown	If Yes or Unknown, please describe:

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

13. **Are there currently or to the best of your knowledge have there been previously, any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?**

☐ Yes ☒ No ☐ Unknown	If Yes or 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 ☒ No ☐ Unknown	If Yes or Unknown, please describe:

15. **Are there currently or to the best of your knowledge have there been previously, any stained soil on the property?**

☐ Yes ☒ No ☐ Unknown	If Yes 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 ☒ No ☐ Unknown	If Yes or Unknown, please describe:

17. **Are there currently or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways (etc.) indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?**

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

18. **If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government agency?**

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

19. Are there currently or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water, or are emitting foul odors?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

20. To the best of your knowledge has your facility previously or does your facility currently, discharge wastewater on or adjacent to the property other than storm water into a sanitary sewer system?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

21. Have any of the following ever been dumped above grade, buried and/or burned on the property? (please check all that apply and describe if possible)

☐ Hazardous substances	
☐ Petroleum products	
☐ Unidentified waste materials	
☐ Tires	
☐ Automotive or industrial batteries	
☐ Other waste materials (please describe)	

22. Are there currently or to the best of your knowledge have there been previously, a transformer, capacitor or any hydraulic equipment on the property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

23. Are there currently or to the best of your knowledge have there been previously any records indicating the presence of PCBs?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

24. Are there currently or to the best of your knowledge have there been previously any records indicating the presence of pesticides or herbicides?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

25. Do you have any knowledge of environmental liens that may have been recorded against the property or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

26. Do you have any knowledge of activity and use limitations (AULs) such as engineering controls, deed restrictions, land use restrictions, or institutional controls that may have been recorded against the property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

27. Have you been informed of the past or current existence of hazardous substances, petroleum products, or environmental violations with respect to the property or any facility located on the property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

28. Do you have any knowledge of any environmental site assessments of the property or facility?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

29. Do you know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release of any hazardous substances or petroleum products involving the property by any owner or occupant of the property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe:

Rincon Project Number: 22-12841

Site Name and Full Address: Proposed Industrial Warehouse Facility, SE Corner W Avenue F and 20th Street West, Lancaster, California

30. Are there any site-specific geotechnical or geologic reports available for the subject property?

☐ Yes ☒ No ☐ Unknown	If Yes or Unknown, please describe: A geotechnical investigation is underway and results will be provided after completion of the Rincon DD package.

31. Is there a Title Report available for the subject property?

☒ Yes ☐ No ☐ Unknown	If Yes or Unknown, please describe: The title report has been provided.

This questionnaire was completed by (please print)

Name	Jack Lac
Title	Western Region Development Manager
Firm	NorthPoint Development
Street Address	3315 N. Oak Trafficway
City, State, Zip Code	Kansas City, MO 64116
Phone Number	626-524-5519
Fax Number	

What is the Preparer's relationship to the property (i.e., owner, occupant, property manager, employee, agent, consultant, etc.)? Buyer of property (under contract with Seller).

Copies of the completed questionnaire should be faxed, emailed (preferably) or mailed to:

Rincon Consultants, Inc.
Attention: Environmental Site Assessment Division
2215 Faraday Avenue, Suite A
Carlsbad, CA 92008
Fax: (760) 918-9444
Email: LRoenicke@rinconconsultants.com

Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's knowledge no material facts have been suppressed or misstated.

Signature Jack Lac Digitally signed by Jack Lac Date: 2022.05.09 15:23:55 -07'00' Date

Appendix B

Regulatory Records Search

DATABASE REPORT

Project Property:	*Proposed Industrial Warehouse Facility* *W Avenue F and 20th Street West* *Lancaster CA*
Project No:	*22-12841*
Report Type:	*Database Report*
Order No:	*22050500704*
Requested by:	*Rincon Consultants, Inc.*
Date Completed:	*May 6, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Executive Summary

Property Information:

Project Property:		*Proposed Industrial Warehouse Facility* *W Avenue F and 20th Street West Lancaster CA*
Project No:		*22-12841*
Coordinates:		
	Latitude:	*34.7441892*
	Longitude:	*-118.157594*
	UTM Northing:	*3,845,285.32*
	UTM Easting:	*394,037.39*
	UTM Zone:	*UTM Zone 11S*
Elevation:		*2,309 FT*

Order Information:

Order No:	*22050500704*
Date Requested:	*May 5, 2022*
Requested by:	*Rincon Consultants, Inc.*
Report Type:	*Database Report*

Historicals/Products:

Aerial Photographs	*Historical Aerials (with Project Boundaries)*
City Directory Search	*CD - 2 Street Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*
Fire Insurance Maps	*US Fire Insurance Maps*
Physical Setting Report (PSR)	*Physical Setting Report (PSR)*
Topographic Map	*Topographic Maps*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	**1**	0	**1**
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
SWRCB SWF	Y	0.5	0	0	0	0	-	0
WMUD	Y	0.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	0	0	-	-	0
UST SWEEPS	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	0	-	-	0
CERS TANK	Y	0.25	0	0	0	-	-	0
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	0	0	-	-	0
LUR	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CALSITES	Y	0.5	0	0	0	0	-	0
HLUR	Y	0.5	0	0	0	0	-	0
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County								
SML LA	Y	0.5	0	0	0	0	-	0
SWF LA COUNTY	Y	0.5	0	0	0	0	-	0
CUPA LA COUNTY	Y	0.25	0	0	0	-	-	0
HMS LA	Y	0.25	0	0	0	-	-	0
UST SANTAFESP	Y	0.25	0	0	0	-	-	0
UST LONGB	Y	0.25	0	0	0	-	-	0
CUPA BURBANK	Y	0.25	0	0	0	-	-	0
UST ELSEGUNDO	Y	0.25	0	0	0	-	-	0
UST SANTA MONICA	Y	0.25	0	0	0	-	-	0
AST SANTAMON	Y	0.25	0	0	0	-	-	0
CUPA SANTAMON	Y	0.25	0	0	0	-	-	0
UST TORRANCE	Y	0.25	0	0	0	-	-	0
UST VERNON	Y	0.25	0	0	0	-	-	0
CUPA VERNON	Y	0.25	0	0	0	-	-	0
UST LA CITY	Y	0.25	0	0	0	-	-	0
AST LA CITY	Y	0.25	0	0	0	-	-	0
HAZMAT LA CITY	Y	0.125	0	0	-	-	-	0
Additional Environmental Records								
Federal								
FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	0	0	0	-	0
HWSS CLEANUP	Y	0.5	0	0	0	0	-	0
TOXIC PITS	Y	1	0	0	0	0	0	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	**1**	0	**1**
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	0	-	-	-	-	0
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	0	-	-	-	0
DELISTED HAZ	Y	0.5	0	0	0	0	-	0
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	0	0	-	-	0
CDL	Y	0.125	0	0	-	-	-	0
Tribal	***No Tribal additional environmental record sources available for this State.***							
County								
HAZMAT SANTAMON	Y	0.125	0	0	-	-	-	0
HAZ WST SANTAMON	Y	0.125	0	0	-	-	-	0
Total:			0	0	0	**2**	0	**2**

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	SCH	AVENUE N SCHOOL	AVENUE N/35TH STREET WEST LANCASTER CA 93534 ***Estor/EPA ID | Cleanup Status:*** 19650026 | NO ACTION REQUIRED AS OF 6/17/2002	SE	0.39 / 2,085.29	3	17
1	ENVIROSTOR	AVENUE N SCHOOL	AVENUE N/35TH STREET WEST LANCASTER CA 93534 ***Estor/EPA ID | Cleanup Status:*** 19650026 | NO ACTION REQUIRED AS OF 6/17/2002	SE	0.39 / 2,085.29	3	17

Executive Summary: Summary by Data Source

Standard

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Jan 6, 2022 has found that there are 1 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
AVENUE N SCHOOL	AVENUE N/35TH STREET WEST LANCASTER CA 93534	SE	0.39 / 2,085.29	1
	***Estor/EPA ID	Cleanup Status**: 19650026	NO ACTION REQUIRED AS OF 6/17/2002*		

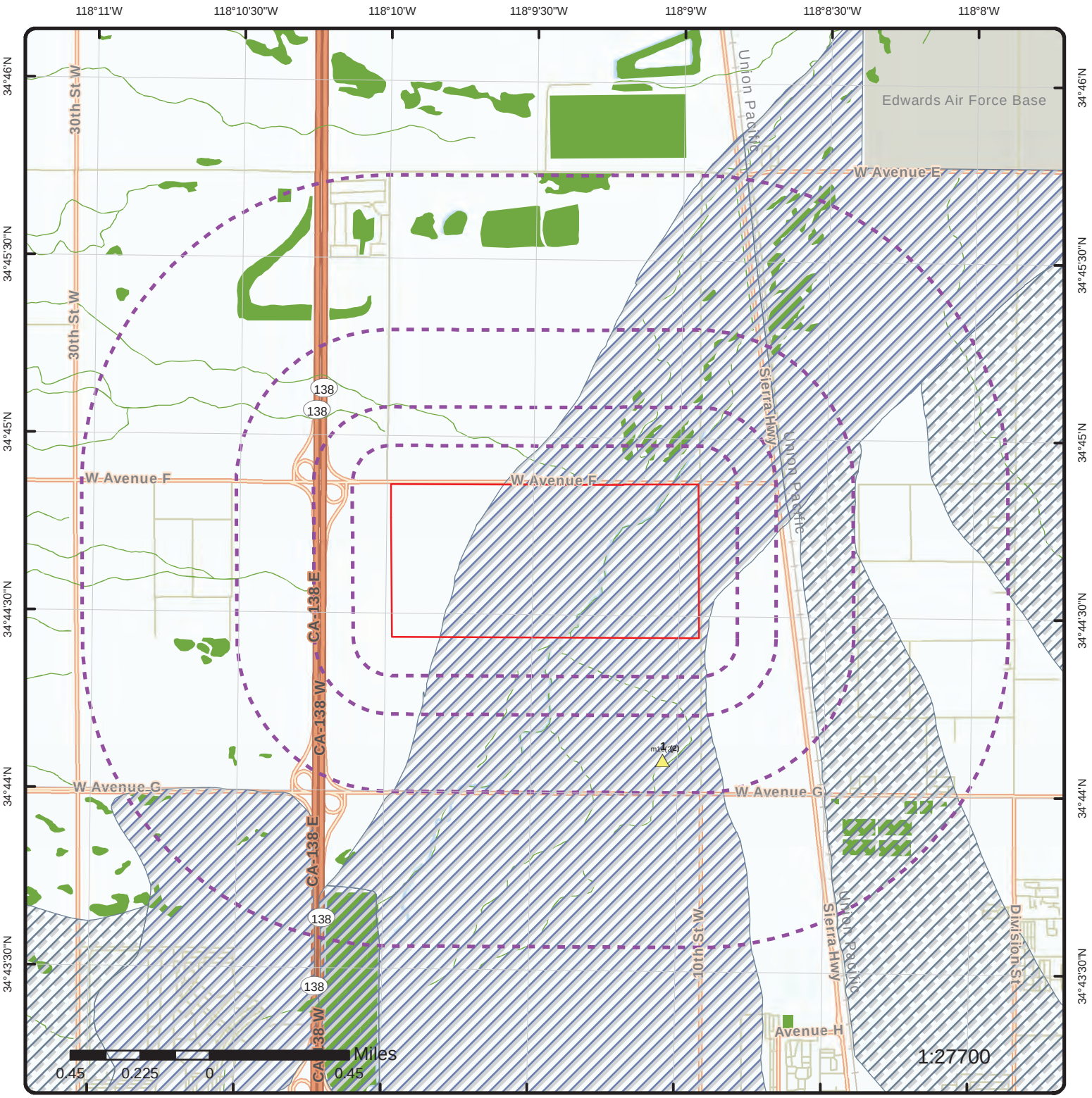
Non Standard

State

SCH - School Property Evaluation Program Sites

A search of the SCH database, dated Jan 6, 2022 has found that there are 1 SCH site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
AVENUE N SCHOOL	AVENUE N/35TH STREET WEST LANCASTER CA 93534	SE	0.39 / 2,085.29	1
	***Estor/EPA ID	Cleanup Status**: 19650026	NO ACTION REQUIRED AS OF 6/17/2002*		



Map: 1.0 Mile Radius

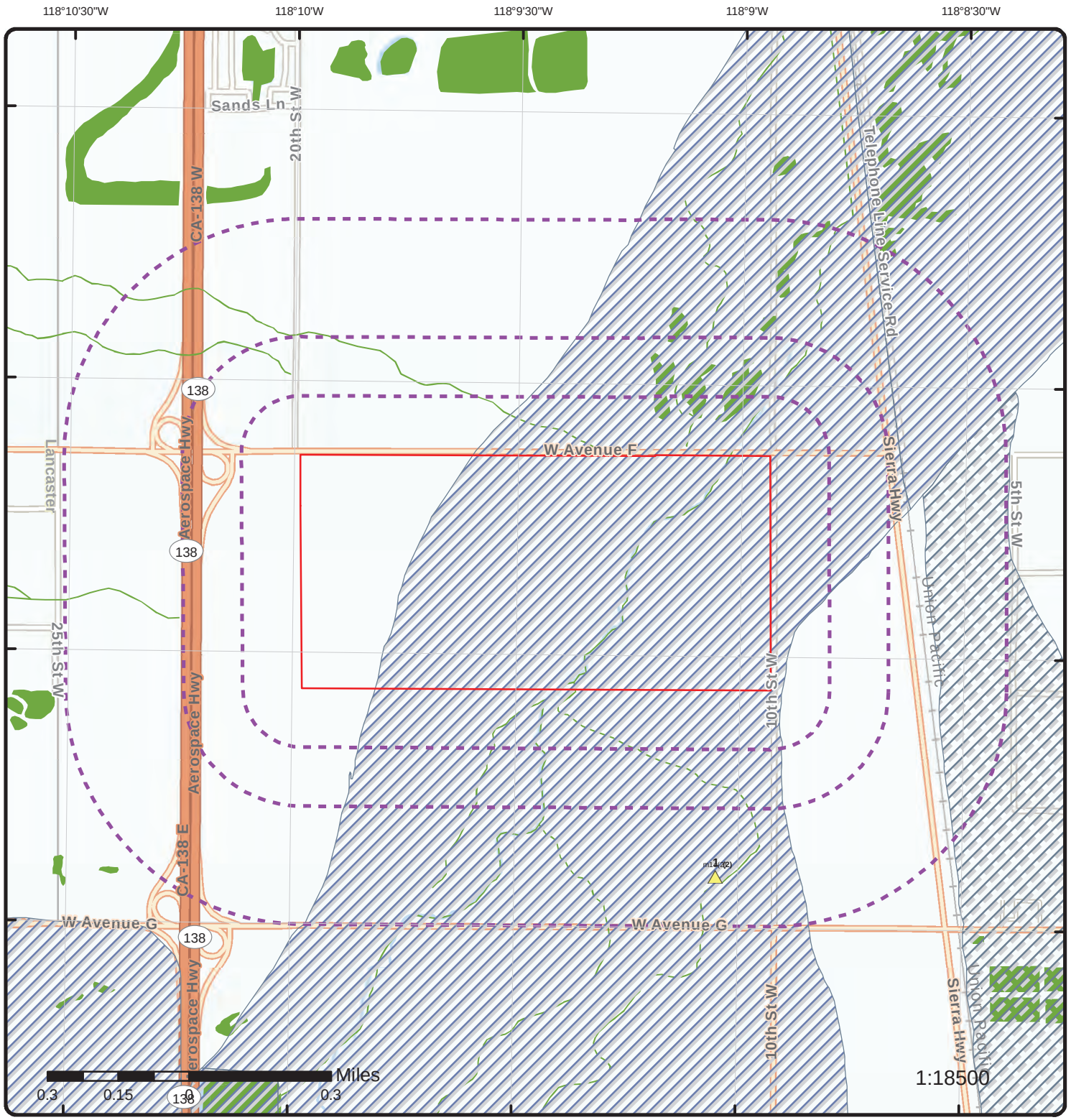
Order Number: 22050500704

Address: W Avenue F and 20th Street West, Lancaster, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

Source: © 2021 ESRI StreetMap Premium

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Map: 0.5 Mile Radius

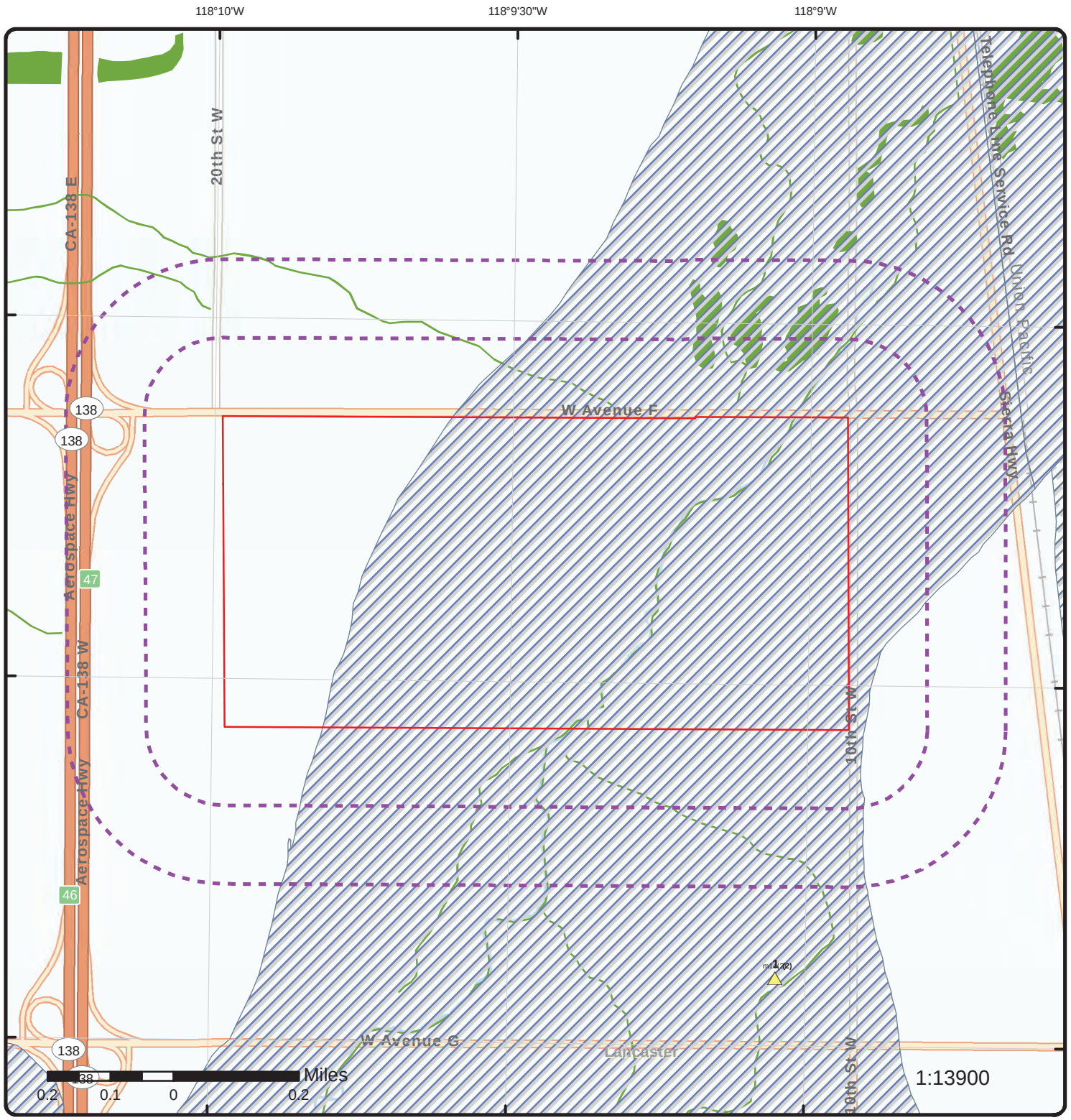
Order Number: 22050500704

Address: W Avenue F and 20th Street West, Lancaster, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

Source: © 2021 ESRI StreetMap Premium

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Map: 0.25 Mile Radius

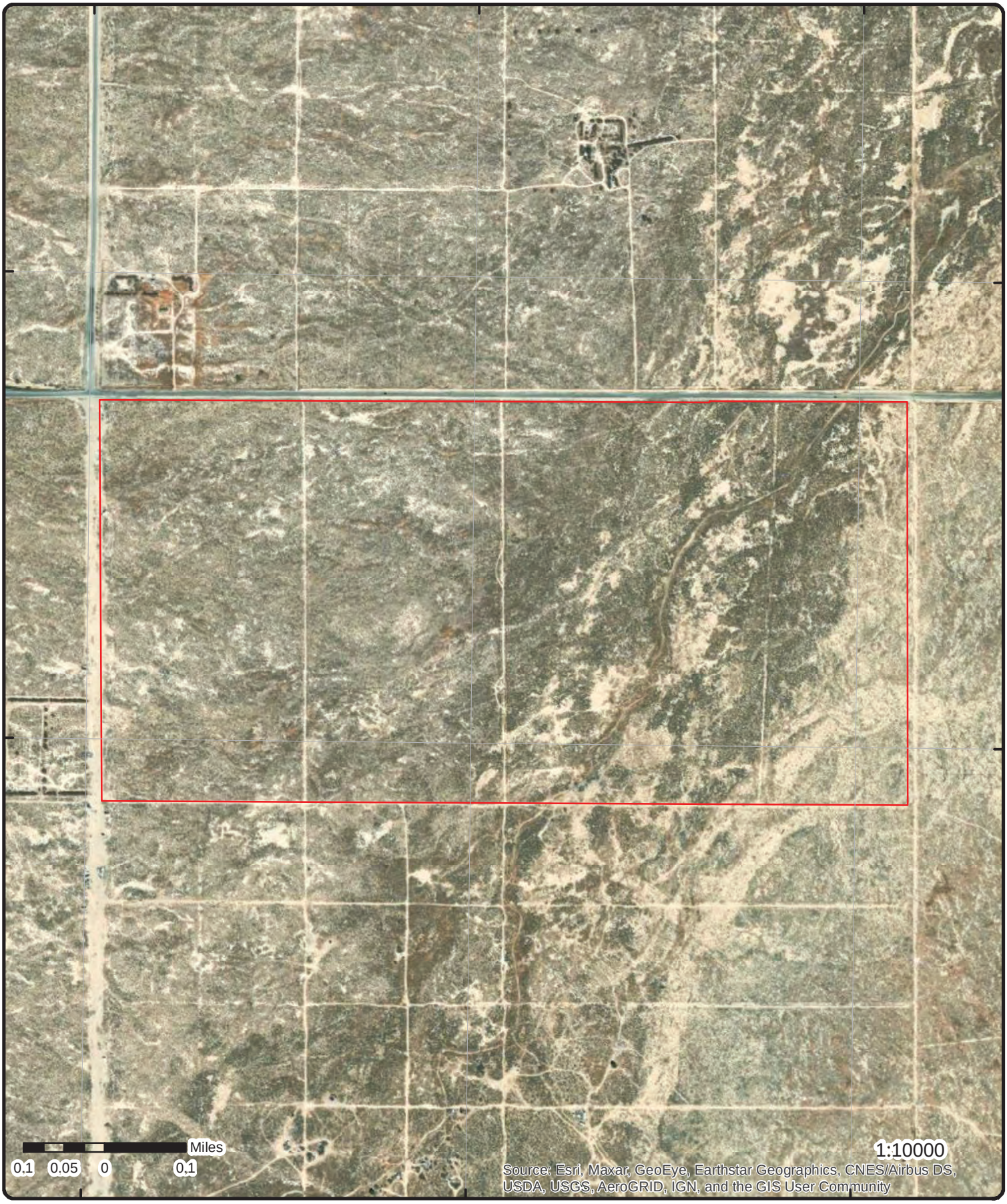
Order Number: 22050500704

Address: W Avenue F and 20th Street West, Lancaster, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
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- Eris Sites with Lower Elevation
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- Eris Areas with Same Elevation
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- Local Road
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- National Wetland
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- FWS Special Designation Areas
- Plume

Source: © 2021 ESRI StreetMap Premium

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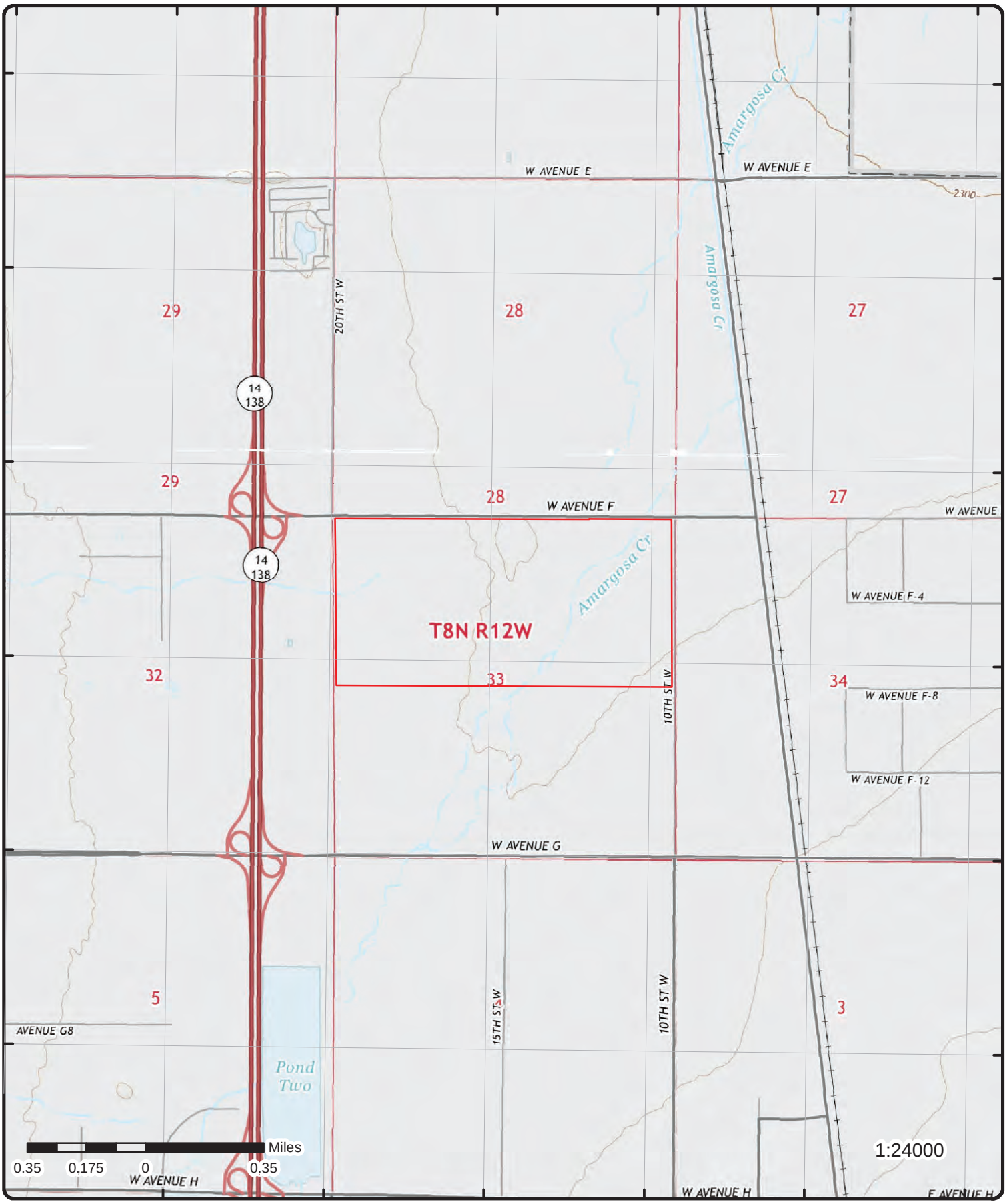
Aerial **Year: 2021**

Order Number: 22050500704

Address: W Avenue F and 20th Street West, Lancaster, CA

Source: ESRI World Imagery

© ERIS Information Inc.



Topographic Map

Year: 2015

Order Number: 22050500704

Address: W Avenue F and 20th Street West, CA

Quadrangle(s): Rosamond Lake, CA; Rosamond, CA; Lancaster West, CA; Lancaster East, CA

© ERIS Information Inc.

Source: USGS Topographic Map

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 2	SE	0.39 / 2,085.29	2,312.50 / 3	AVENUE N SCHOOL AVENUE N/35TH STREET WEST LANCASTER CA 93534	SCH

Estor/EPA ID: 19650026
Site Code: 304374
Nat Priority List: NO
Acres: 20 ACRES
Special Program:
Funding: SCHOOL DISTRICT
Assembly District: 36
Senate District: 21
Permit Renewal Lead:
Project Manager:
Supervisor: JAVIER HINOJOSA
Public Partici Spclst:
Census Tract: 6037900900
County: LOS ANGELES
Latitude: 34.7349
Longitude: -118.1508
School District: WESTSIDE UNION ELEMENTARY SCHOOL DISTRICT
APN: NONE SPECIFIED
Cleanup Status: NO ACTION REQUIRED AS OF 6/17/2002
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
Site Type: SCHOOL
Office: SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH
Past Use that Caused Contam: NONE
Potential Media Affected: NO MEDIA AFFECTED
Potential Contamin of Concern:

NO CONTAMINANTS FOUND

SITE HISTORY:

According to the Phase I, the approximately 25-acre site has been historically vacant, undeveloped land. No agricultural or other activities appear to have occurred on the site, nor are there any apparent adjacent land use concerns. DTSC approved the Phase I with a no action determination.

Status: NO ACTION REQUIRED
Program Type: SCHOOL INVESTIGATION
CalEnviroScreen Score: 41-45%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19650026

Completed Activities

Title: Phase 1
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=19650026&doc_id=6001546
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Phase 1
Date Completed: 6/17/2002
Comments:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 2	SE	0.39 / 2,085.29	2,312.50 / 3	AVENUE N SCHOOL AVENUE N/35TH STREET WEST LANCASTER CA 93534	ENVIROSTOR

Estor/EPA ID: 19650026
Site Code: 304374
Nat Priority List: NO
APN: NONE SPECIFIED
Census Tract: 6037900900
Site Type: SCHOOL
Address Description: AVENUE N/35TH STREET WEST
Assembly District: 36
Senate District: 21
Permit Renewal Lead:
Public Partici Spclst:
Project Manager:
County: LOS ANGELES
Latitude: 34.7349

Office:	SOUTHERN CALIFORNIA SCHOOLS & BROWNFIELDS OUTREACH	***Longitude:***	-118.1508
Special Program:		***Acres:***	20 ACRES
Funding:	SCHOOL DISTRICT	***Supervisor:***	JAVIER HINOJOSA

Cleanup Status: NO ACTION REQUIRED AS OF 6/17/2002
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
School District: WESTSIDE UNION ELEMENTARY SCHOOL DISTRICT
Past Use that Caused Contam: NONE
Potential Media Affected: NO MEDIA AFFECTED
Site History:

According to the Phase I, the approximately 25-acre site has been historically vacant, undeveloped land. No agricultural or other activities appear to have occurred on the site, nor are there any apparent adjacent land use concerns. DTSC approved the Phase I with a no action determination.

Potential Contamin of Concern:

NO CONTAMINANTS FOUND

Status: NO ACTION REQUIRED
Program Type: SCHOOL INVESTIGATION
CalEnviroScreen Score: 41-45%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=19650026

Completed Activities

Title: Phase 1
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=19650026&doc_id=6001546
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Phase 1
Date Completed: 6/17/2002
Comments:

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2022

National Priority List - Proposed: PROPOSED NPL

Sites proposed - by the EPA, the state agency, or concerned citizens - for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2022

Deleted NPL: DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. 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. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2022

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Feb 24, 2022

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Feb 24, 2022

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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 this site on the National Priorities List (NPL). This 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 a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jan 31, 2022

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Jan 31, 2022

RCRA Generator List: RCRA LQG

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jan 31, 2022

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jan 31, 2022

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jan 31, 2022

RCRA Non-Generators: RCRA NON GEN

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jan 31, 2022

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jan 31, 2022

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Dec 30, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Dec 30, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites: NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Jan 25, 2022

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Dec 31, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Feb 4, 2022

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Feb 4, 2022

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Feb 24, 2022

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Nov 16, 2021

State

State Response Sites: RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Jan 6, 2022

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Jan 6, 2022

Delisted State Response Sites: DELISTED ENVS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Jan 6, 2022

Solid Waste Information System (SWIS): SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Feb 2, 2022

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels: SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Waste Management Unit Database: WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities: HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Jan 6, 2022

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report: SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers: C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers: RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 12, 2022

Listing of Certified Processors: PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 12, 2022

Listing of Certified Dropoff, Collection, and Community Service Programs: CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 12, 2022

Land Disposal Sites: LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Feb 15, 2022

Leaking Underground Fuel Tank Reports: LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Feb 15, 2022

Delisted Leaking Storage Tanks: DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Feb 15, 2022

Permitted Underground Storage Tank (UST) in GeoTracker: UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Jan 3, 2022

Proposed Closure of Underground Storage Tank Cases: UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

Government Publication Date: May 5, 2021

Historical Hazardous Substance Storage Information Database: HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System: UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks: AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks: AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks: TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Apr 4, 2022

Delisted Storage Tanks: DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Apr 25, 2022

California Environmental Reporting System (CERS) Tanks: CERS TANK

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. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Apr 5, 2022

Delisted California Environmental Reporting System (CERS) Tanks: DELISTED CTNK

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Apr 5, 2022

Historical Hazardous Substance Storage Container Information - Facility Summary: HIST TANK

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in th 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions: LUR

The Department of Toxic Substances Control (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 land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Jan 6, 2022

CALSITES Database: CALSITES

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions: HLUR

The Department of Toxic Substances Control (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.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions: DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Feb 15, 2022

Voluntary Cleanup Program: VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Jan 6, 2022

GeoTracker Cleanup Program Sites: CLEANUP SITES

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Feb 15, 2022

Delisted County Records: DELISTED COUNTY

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: May 2, 2022

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands: INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Oct 12, 2021

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Oct 12, 2021

Delisted Tribal Leaking Storage Tanks: DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Oct 12, 2021

Delisted Tribal Underground Storage Tanks: DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Oct 13, 2021

County

Los Angeles County - Site Mitigation List: SML LA

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: May 26, 2021

Los Angeles County - Solid Waste Sites: SWF LA COUNTY

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Feb 15, 2022

Los Angeles County - CUPA Program Records: CUPA LA COUNTY

A list of inspection and enforcement records for active and inactive CUPA Program facilities, made available by the Health Hazardous Materials Division (HHMD) of the County of Los Angeles Fire Department. Includes Hazardous Materials Business Plan (HMBP), California Accidental Release Prevention Plan (CalARP), Hazardous Waste Generator (HWG), and the Aboveground Petroleum Storage Act Programs (APSA). Inactive programs include facilities that are out of business or no longer regulated by the HHMD.

Government Publication Date: Mar 25, 2020

Los Angeles County - HMS List: HMS LA

List of sites in the Los Angeles County Department of Public Works Hazardous Materials System (HMS) Database which have or have had permits for Industrial Waste, Underground Storage Tanks, or Stormwater in the county of Los Angeles.

Government Publication Date: Nov 5, 2020

Los Angeles County - Santa Fe Springs Underground Storage Tank: UST SANTAFESP

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Fe Springs. This list is made available by Santa Fe Springs Department of Fire-Rescue.

Government Publication Date: Feb 11, 2022

Los Angeles County - Long Beach UST List: UST LONGB

List of registered Underground Storage Tanks (USTs) in the City of Long Beach, Los Angeles County, made available by the Long Beach Certified Unified Program Agency (CUPA). The Long Beach CUPA operates under oversight shared by the Long Beach Fire Department and Health Department.

Government Publication Date: Jul 9, 2018

Los Angeles County - Burbank City CUPA List: CUPA BURBANK

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Burbank. This list is made available by the City of Burbank Fire Department.

Government Publication Date: Aug 21, 2019

Los Angeles County - El Segundo City Underground Storage Tanks List: UST ELSEGUNDO

List of registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County, made available by El Segundo City Fire Department.

Government Publication Date: Jan 17, 2017

Los Angeles County - Santa Monica City Underground Storage Tank List: UST SANTA MONICA

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Monica made available by Santa Monica Fire Prevention Division.

Government Publication Date: Dec 3, 2020

Los Angeles County - Santa Monica City Aboveground Storage Tank List: AST SANTAMON

List of registered Aboveground Storage Tanks (ASTs) made available by the Santa Monica Fire Department in the City of Santa Monica of Los Angeles County, California.

Government Publication Date: Jan 14, 2022

Los Angeles County - Santa Monica City CUPA Facilities List: CUPA SANTAMON

The Santa Monica Fire Department's office maintains a list of CUPA Facilities located in Santa Monica city.

Government Publication Date: Jan 14, 2022

Los Angeles County - Torrance City Underground Storage Tanks: UST TORRANCE

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Feb 2, 2021

Los Angeles County - Vernon City UST List: UST VERNON

A list of Underground Storage Tanks (UST) in Vernon City provided by the Vernon City Fire Department.

Government Publication Date: Jan 10, 2022

Los Angeles County - Vernon City CUPA List: CUPA VERNON

The Vernon City Fire Department's office maintains a list of CUPA Facilities located in Vernon city.

Government Publication Date: Jan 10, 2022

Los Angeles County - City of Los Angeles UST List: UST LA CITY

A list of active and inactive underground storage tank facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jan 13, 2022

Los Angeles County - City of Los Angeles AST List: AST LA CITY

A list of active and inactive above ground petroleum storage tanks made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Los Angeles County - City of Los Angeles Hazardous Materials Facilities: HAZMAT LA CITY

A list of active and inactive hazardous materials facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Jan 11, 2022

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfas-contamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Nov 22, 2021

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Mar 30, 2022

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Jan 15, 2022

Drycleaner Facilities: FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 2, 2021

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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 Abandoned Mine Land (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.

Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Dec 21, 2021

Superfunds Consent Decrees: CONSENT DECREES

A list of Superfund consent decrees made available by the Department of Justice, Environment & Natural Resources Division (ENRD).

Government Publication Date: Sep 30, 2018

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jan 20, 2022

State

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Feb 28, 2020

Non-Toxic Dry Cleaning Incentive Program: DRYC GRANT

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2020

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

List of sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Feb 15, 2022

PFOA/PFOS Groundwater: PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Jan 29, 2022

Hazardous Waste and Substances Site List - Site Cleanup: HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: May 20, 2021

Toxic Pit Cleanup Act Sites: TOXIC PITS

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is not longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action: DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement: INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Apr 29, 2021

School Property Evaluation Program Sites: SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Jan 6, 2022

California Hazardous Material Incident Report System (CHMIRS): CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Feb 8, 2022

Historical California Hazardous Material Incident Report System (CHMIRS): HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Hazardous Waste Manifest Data: HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 24, 2016

Historical Hazardous Waste Manifest Data: HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters: HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Oct 19, 2020

Registered Waste Tire Haulers: WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Apr 12, 2022

California Medical Waste Management Program Facility List: MEDICAL WASTE

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Dec 31, 2020

Historical Cortese List: HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders: CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites: CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Apr 5, 2022

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites: DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker: GEOTRACKER

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Feb 15, 2022

Mines Listing: MINE

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Dec 17, 2021

Recorded Environmental Cleanup Liens: LIEN

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Dec 15, 2021

Waste Discharge Requirements: WASTE DISCHG

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Feb 15, 2022

Toxic Pollutant Emissions Facilities: EMISSIONS

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2019

Clandestine Drug Lab Sites: CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County - Santa Monica City Hazardous Materials Facilities: HAZMAT SANTAMON

A list of Hazardous Materials Facilities in the City of Santa Monica, Los Angeles county. This list is made available by Santa Monica Fire Prevention Division which has been designated as the CUPA for the City.

Government Publication Date: Dec 17, 2021

Los Angeles County - Santa Monica City Hazardous Waste Facilities: HAZ WST SANTAMON

A list of Hazardous Waste Facilities in Los Angeles County, City of Santa Monica. This list is made available by Santa Monica Fire Prevention Division.

Government Publication Date: Jan 14, 2022

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

PSR
PHYSICAL SETTING REPORT

Property Information

Order Number:		22050500704p
Date Completed:		May 6, 2022
Project Number:		22-12841
Project Property:		Proposed Industrial Warehouse Facility W Avenue F and 20th Street West Lancaster CA
Coordinates:		
	Latitude:	34.7441892
	Longitude:	-118.157594
	UTM Northing:	3845285.3164 Meters
	UTM Easting:	394037.39371 Meters
	UTM Zone:	UTM Zone 11S
	Elevation:	2,309.28 ft
	Slope Direction:	NE

Topographic Information....2
Hydrologic Information....12
Geologic Information....20
Soil Information....23
Wells and Additional Sources....27
  Summary....32
  Detail Report....34
Radon Information....77
Appendix....78
Liability Notice....80

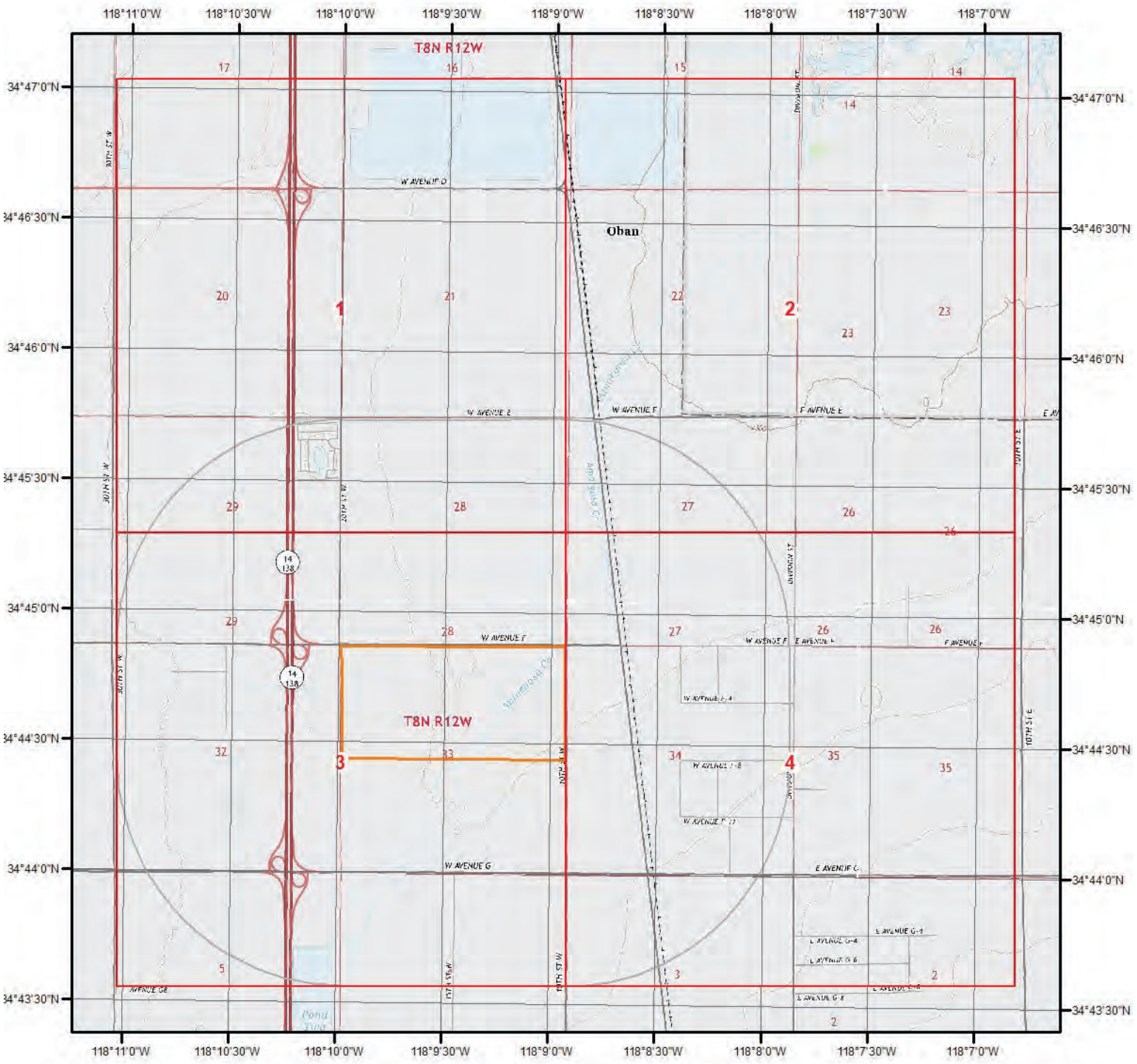
The ERIS ***Physical Setting Report - PSR*** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2015)

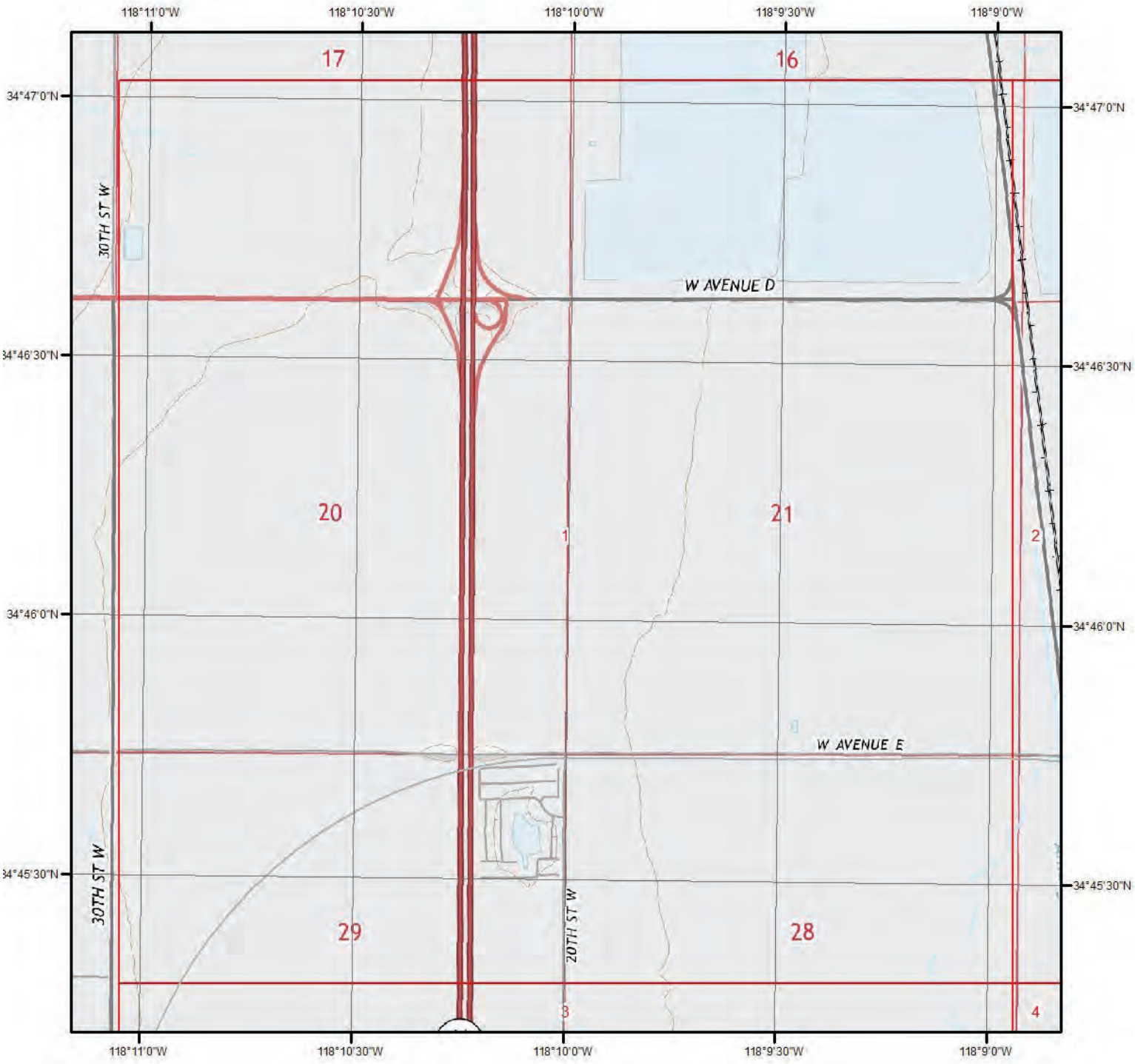
0 0.2 0.4 0.8 1.2 1.6 Miles

N

Quadrangle(s): Del Sur,CA; Lancaster East,CA; Lancaster West,CA; Little Buttes,CA; Rosamond,CA; Rosamond Lake,CA

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 1

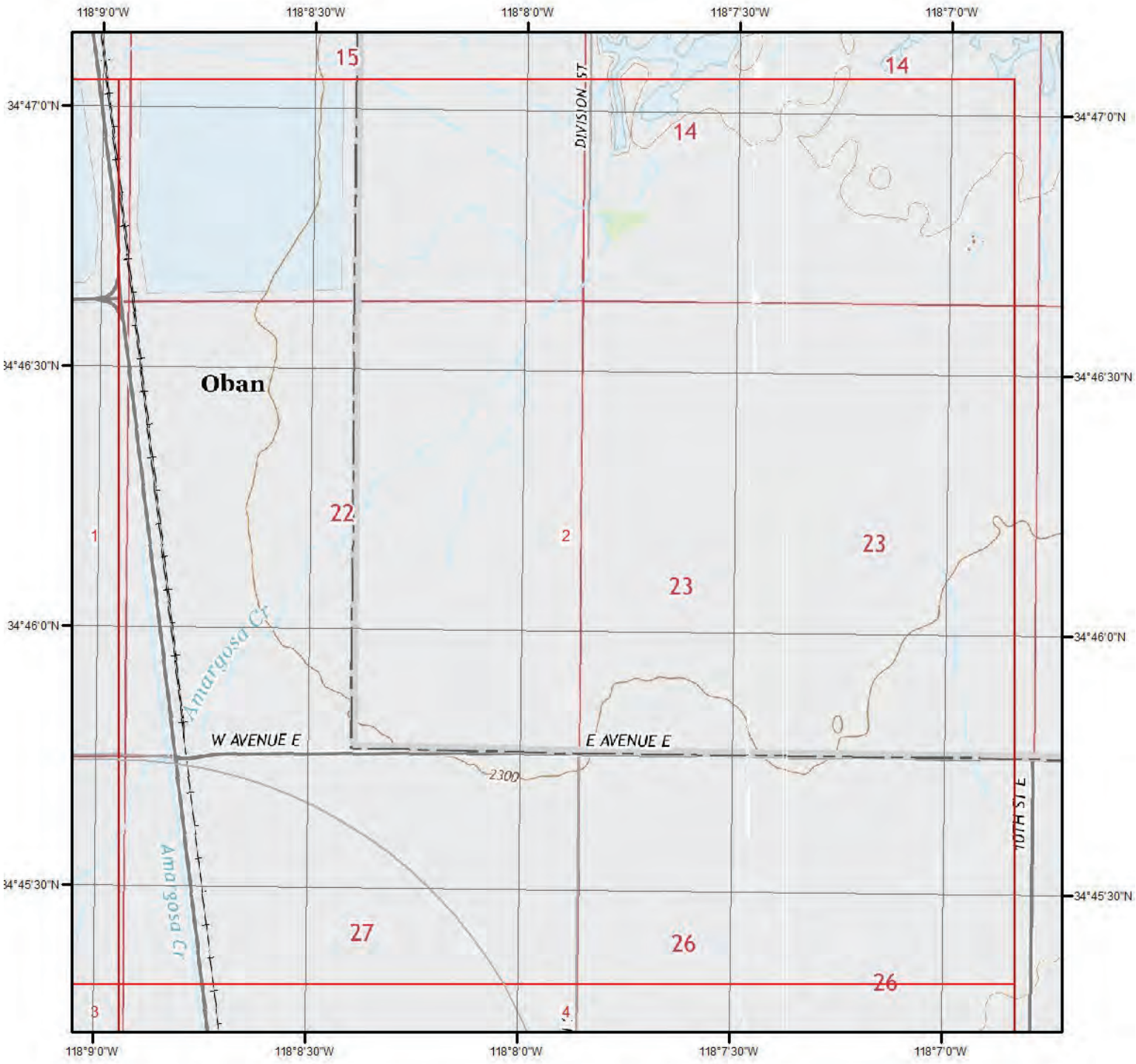
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Rosamond,CA

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 2

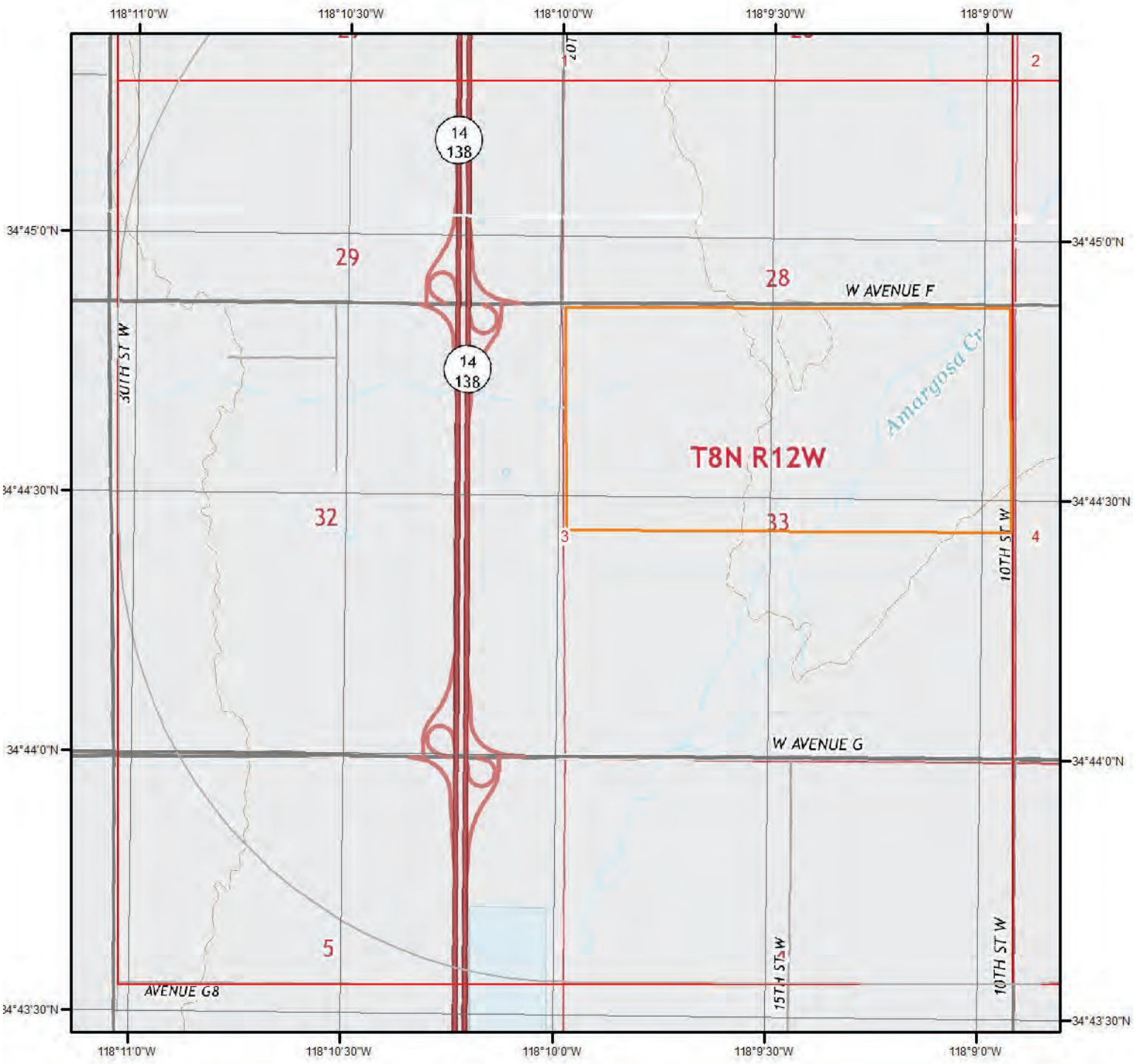
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Rosamond,CA; Rosamond Lake,CA

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 3

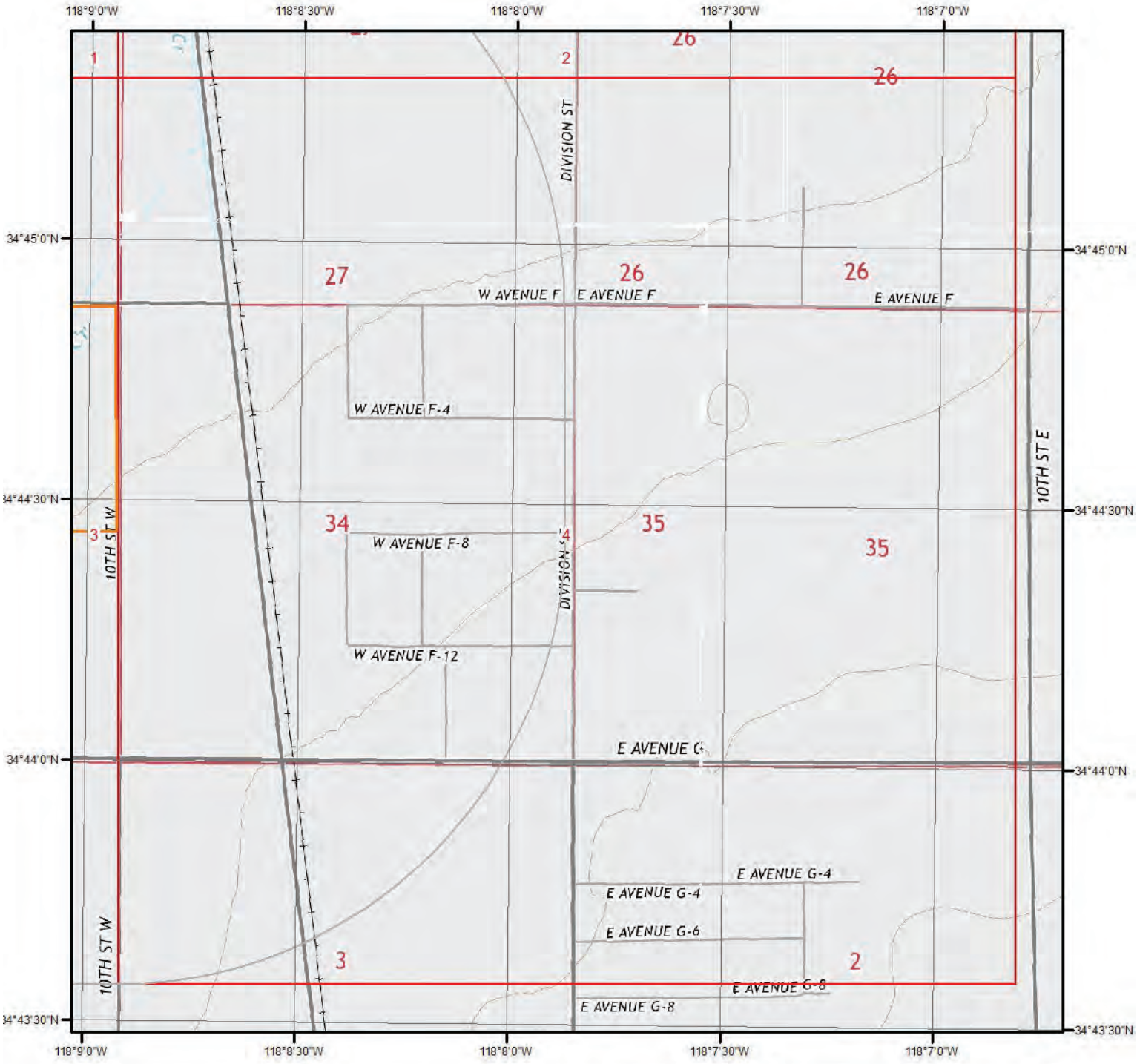
0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Lancaster West,CA; Rosamond,CA

Source: USGS 7.5 Minute Topographic Map

Topographic Information



Current USGS Topo - Page 4

0 0.2 0.4 0.8 Miles

N

Quadrangle(s): Lancaster East,CA; Lancaster West,CA; Rosamond,CA; Rosamond Lake,CA

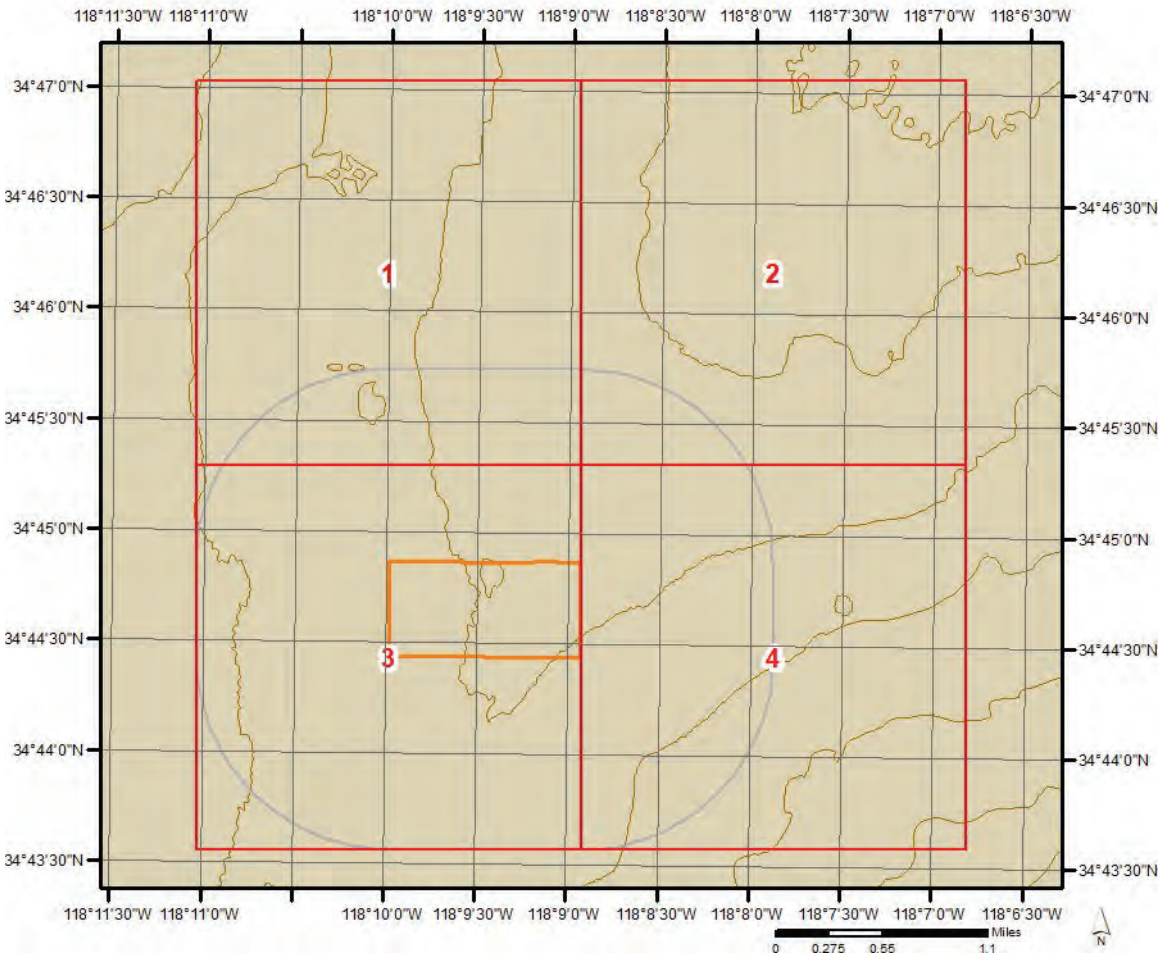
Source: USGS 7.5 Minute Topographic Map

Topographic Information

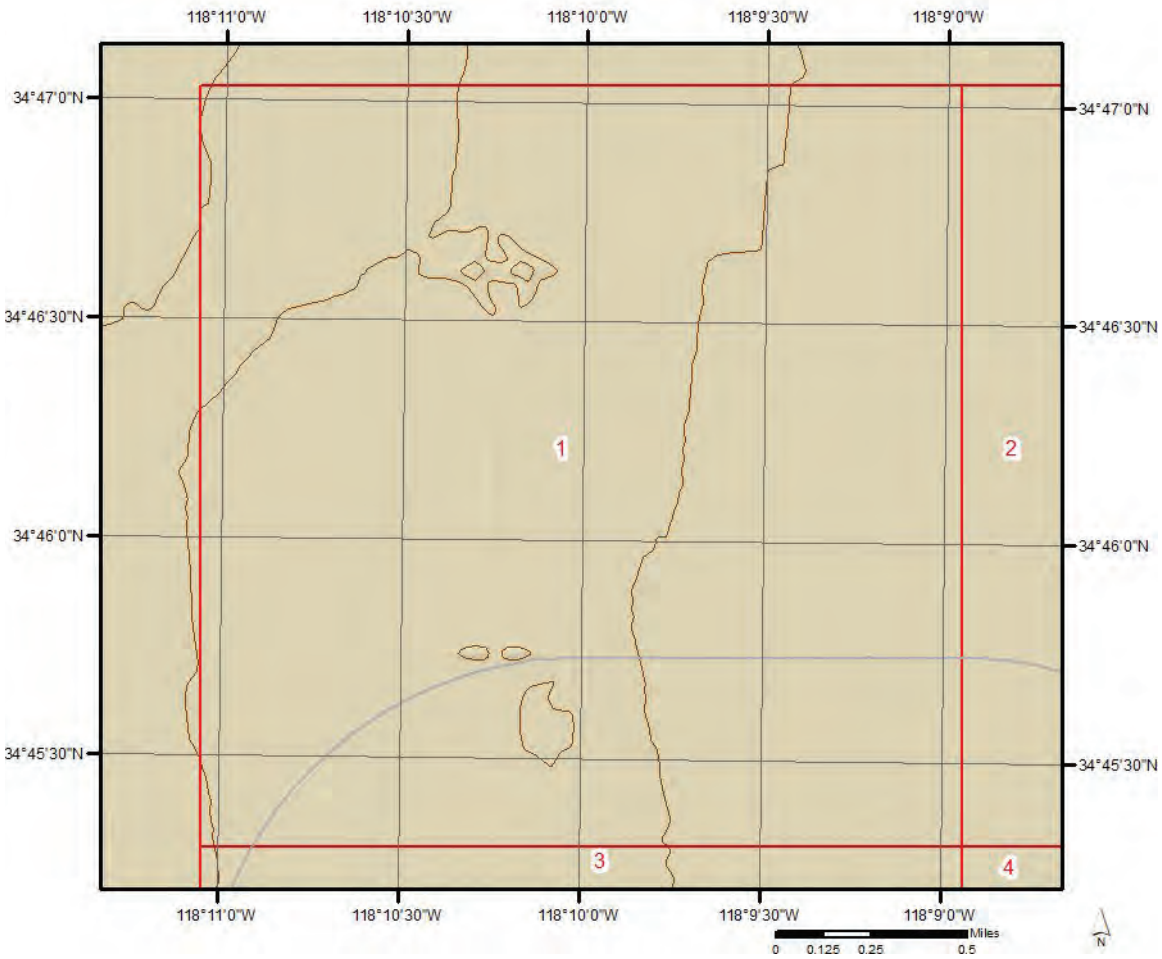
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

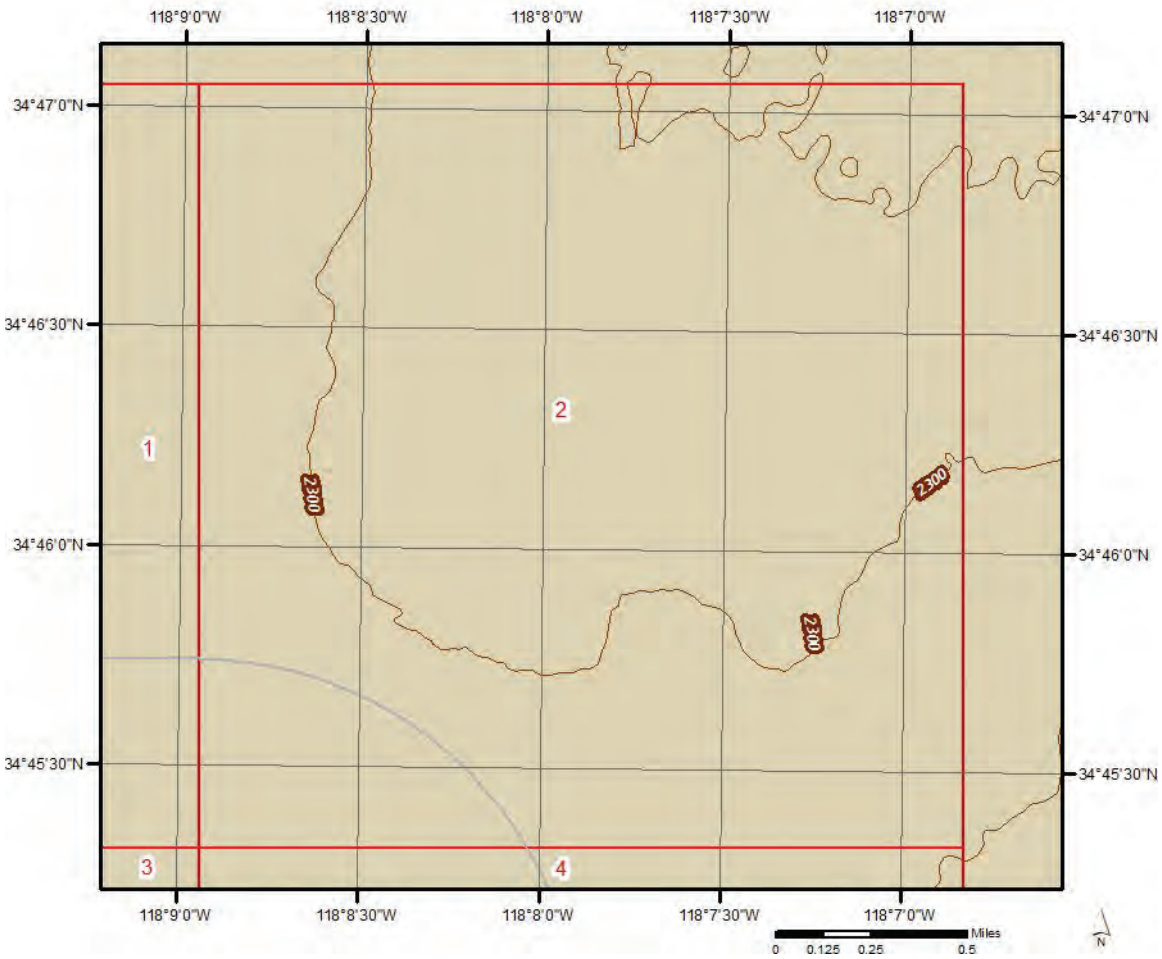
Elevation:	2,309.28 ft
Slope Direction:	NE



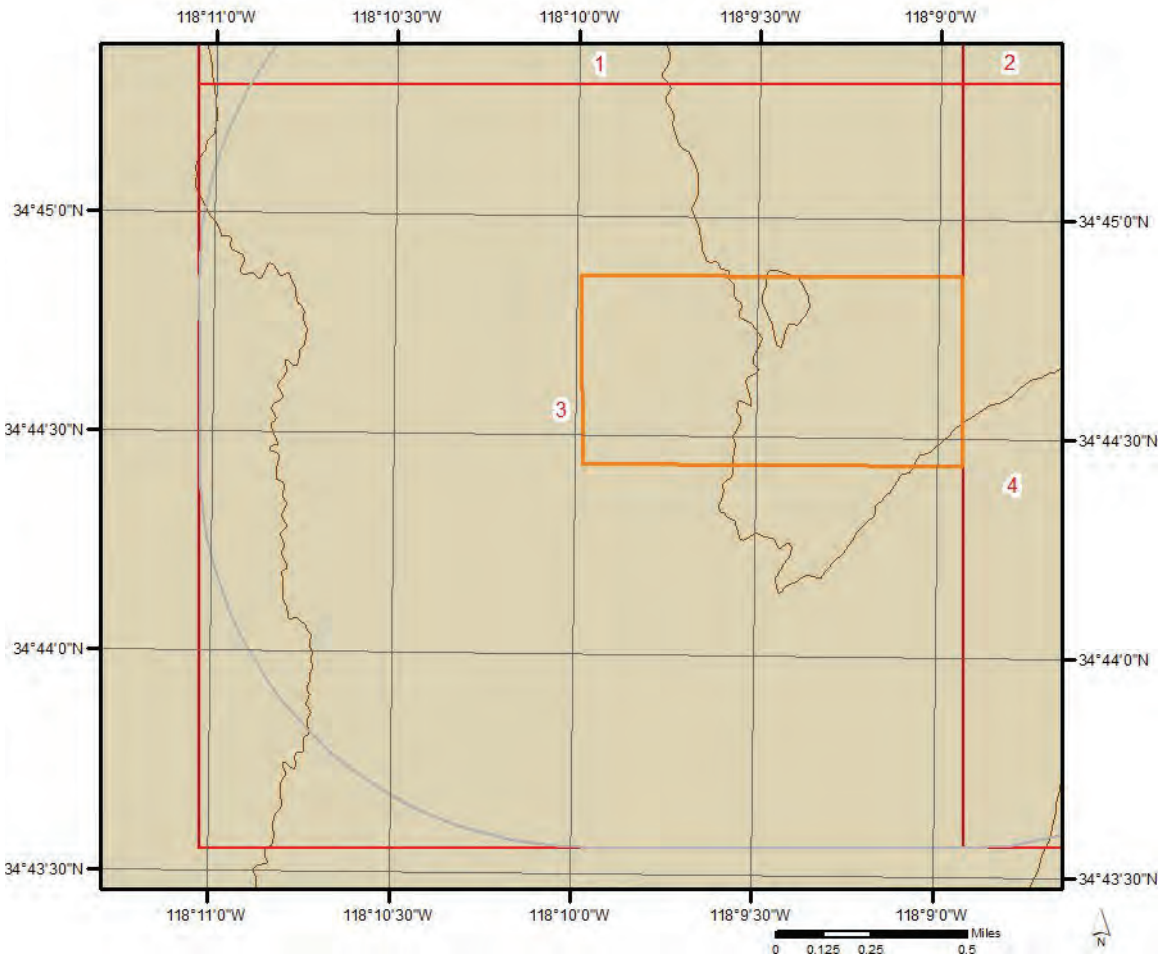
Topographic Information



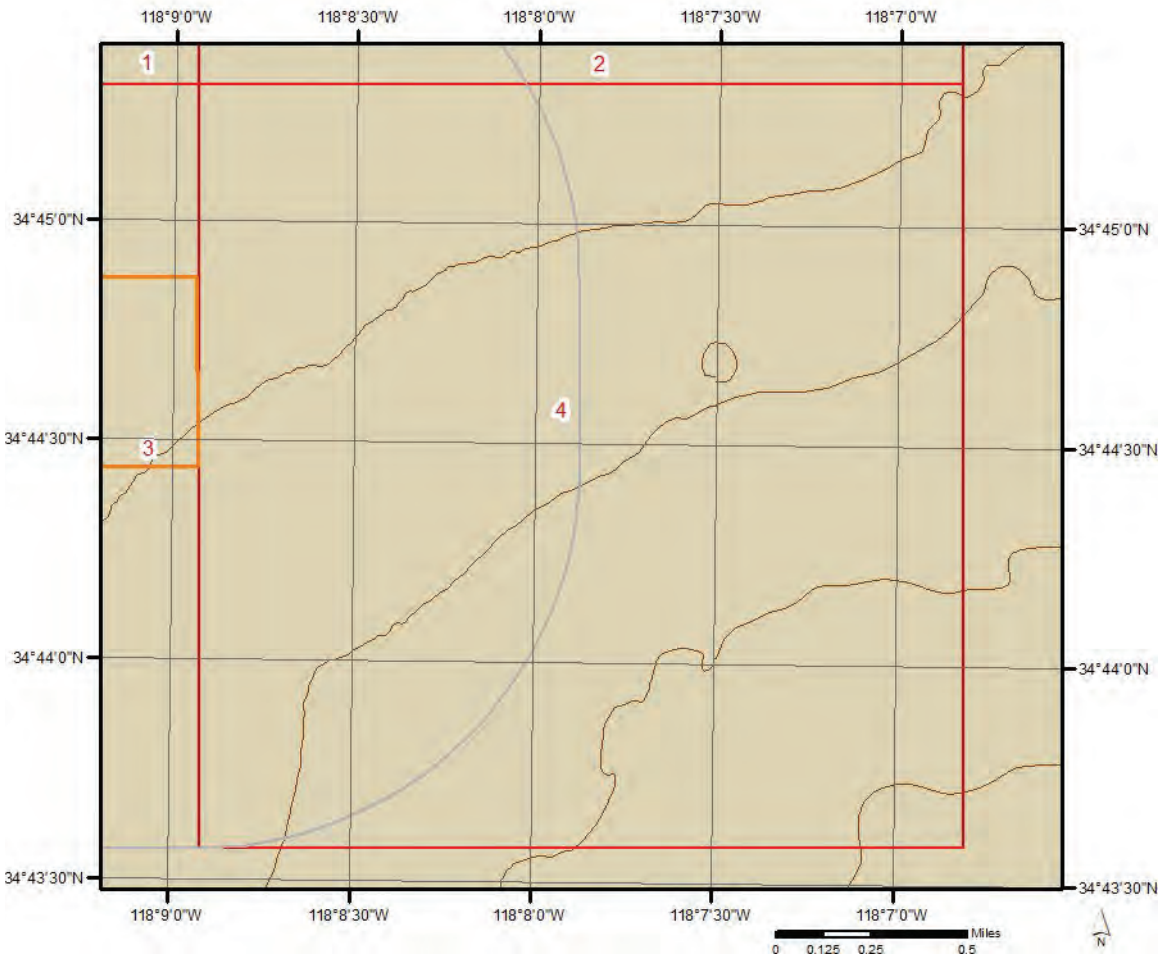
Topographic Information



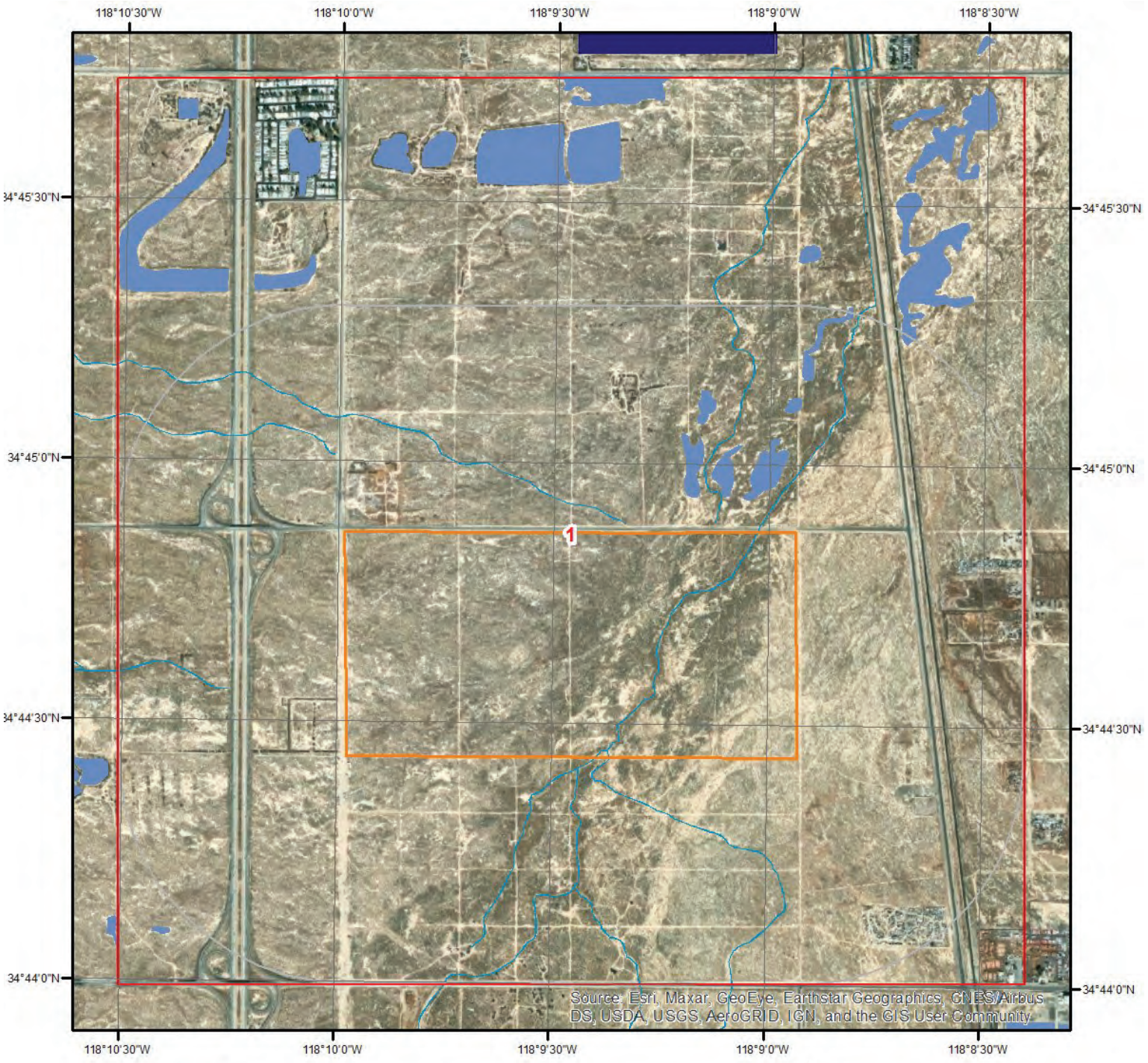
Topographic Information



Topographic Information



Hydrologic Information



Wetland

0 0.125 0.25 0.5 Miles

N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

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

ERIS

Hydrologic Information



Wetland Type - Page 1

0 0.125 0.25 0.5 Miles

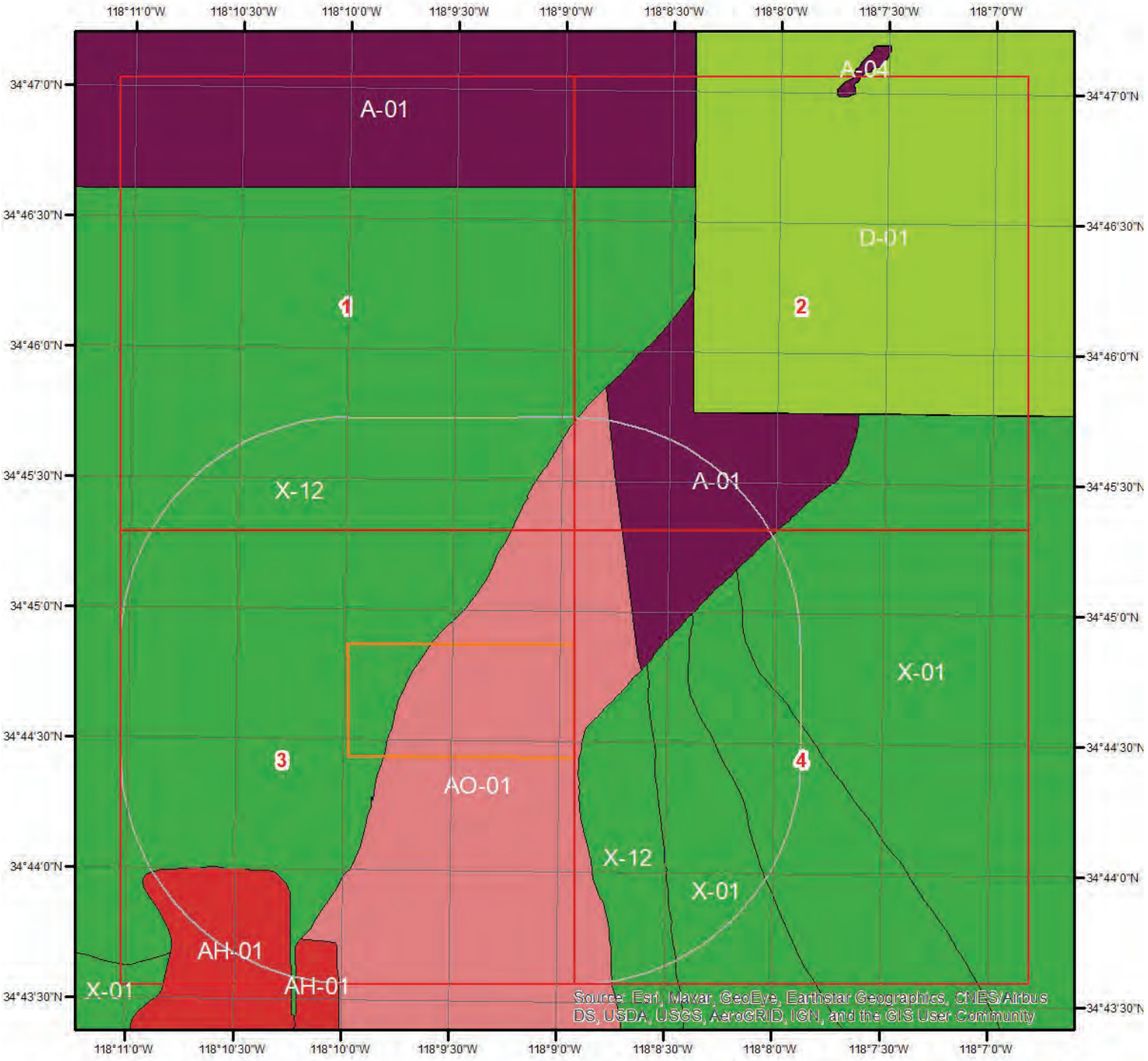
N

This map shows wetland existence using data from US Fish & Wildlife.
Data coverage is shown to the right. Gray indicates no data available in the area.

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

ERIS

Hydrologic Information

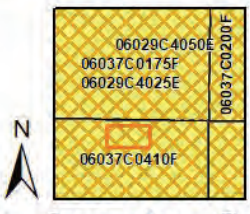


Flood Hazard Zones

Miles
0 0.2 0.4 0.8

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

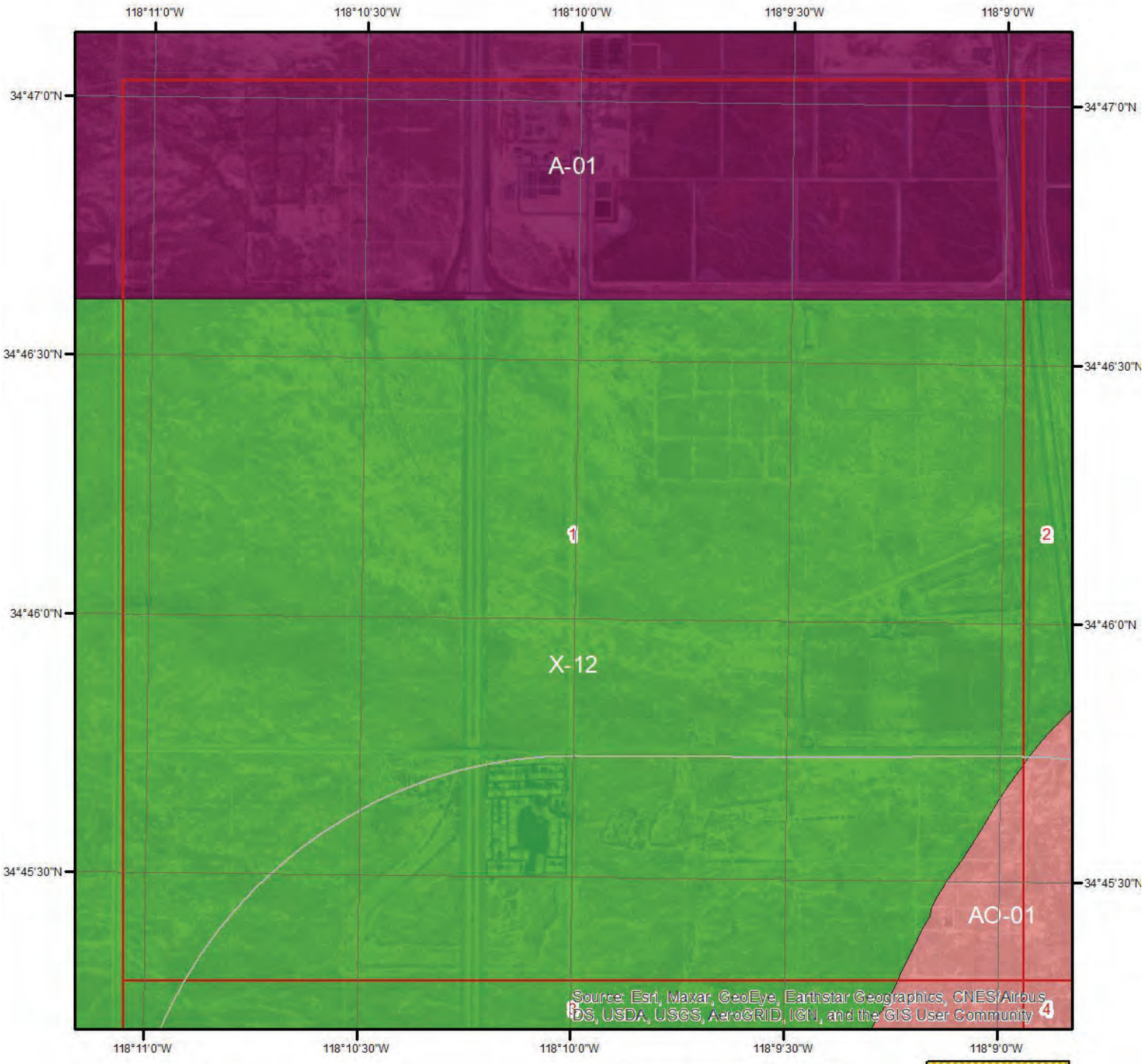
A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED



Quadrangle(s): Del Sur,CA; Lancaster East,CA; Lancaster West,CA; Little Buttes,CA; Rosamond,CA;

ERIS

Hydrologic Information



Flood Hazard Zones - Page 1

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

N

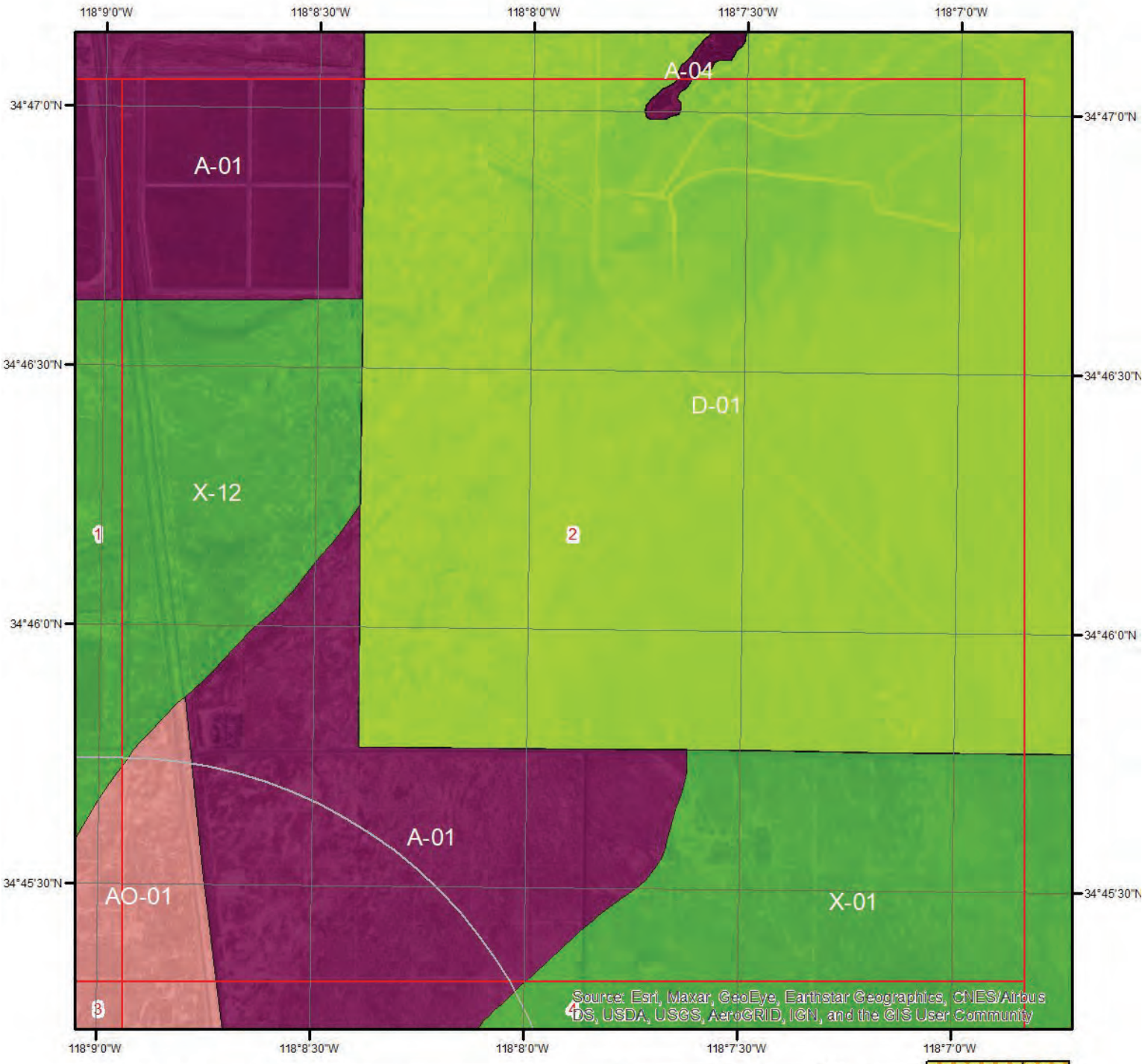
06037C0175F
06029C4025E

Quadrangle(s): Rosamond,CA

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

ERIS

Hydrologic Information



Flood Hazard Zones - Page 2

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

N

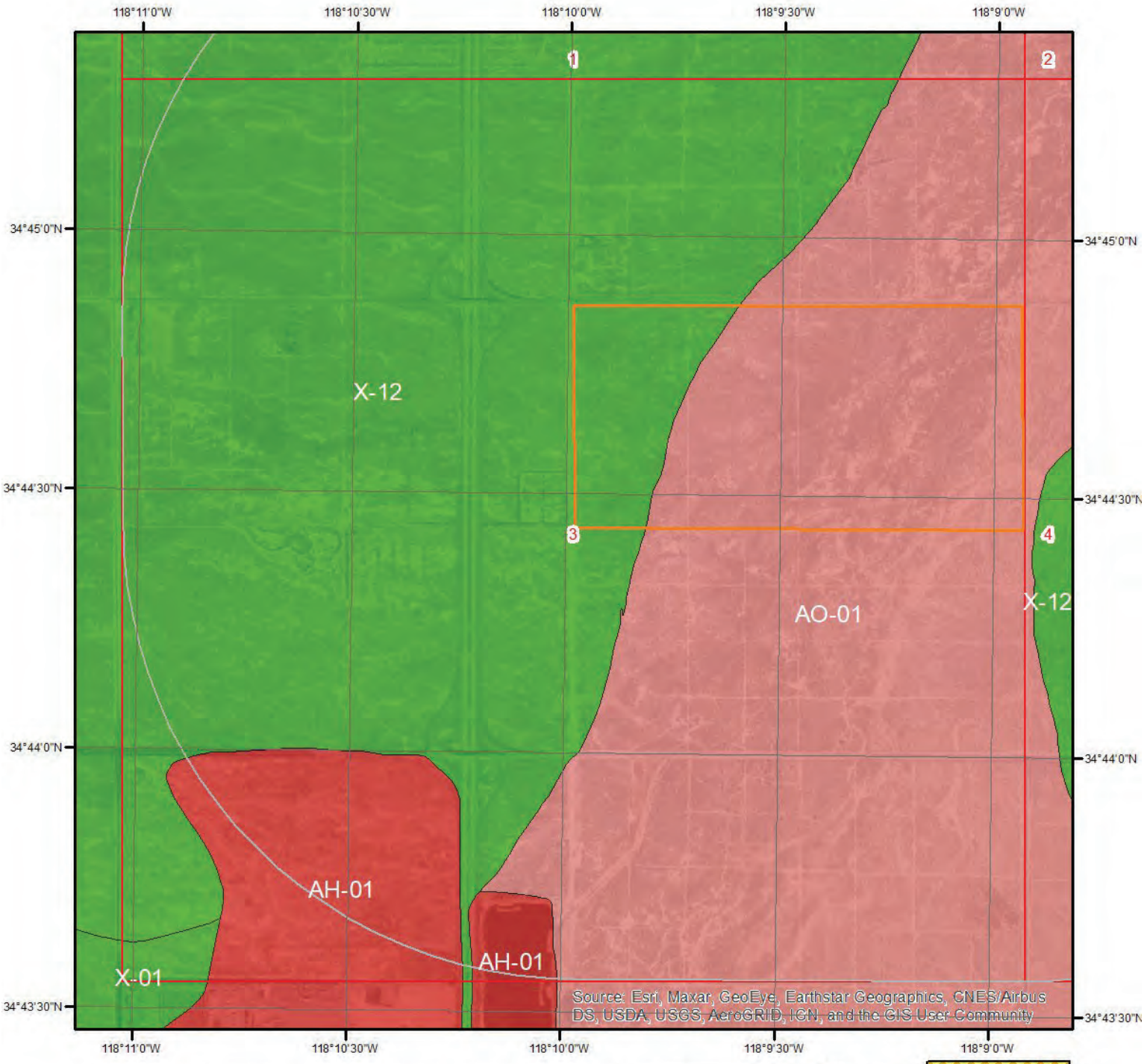
06037C0175F
06029C4025E
06037C0200F

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

Quadrangle(s): Rosamond,CA; Rosamond Lake,CA

ERIS

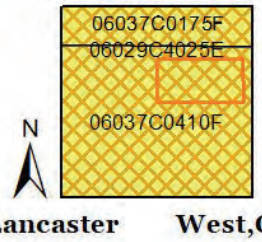
Hydrologic Information



Flood Hazard Zones - Page 3

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

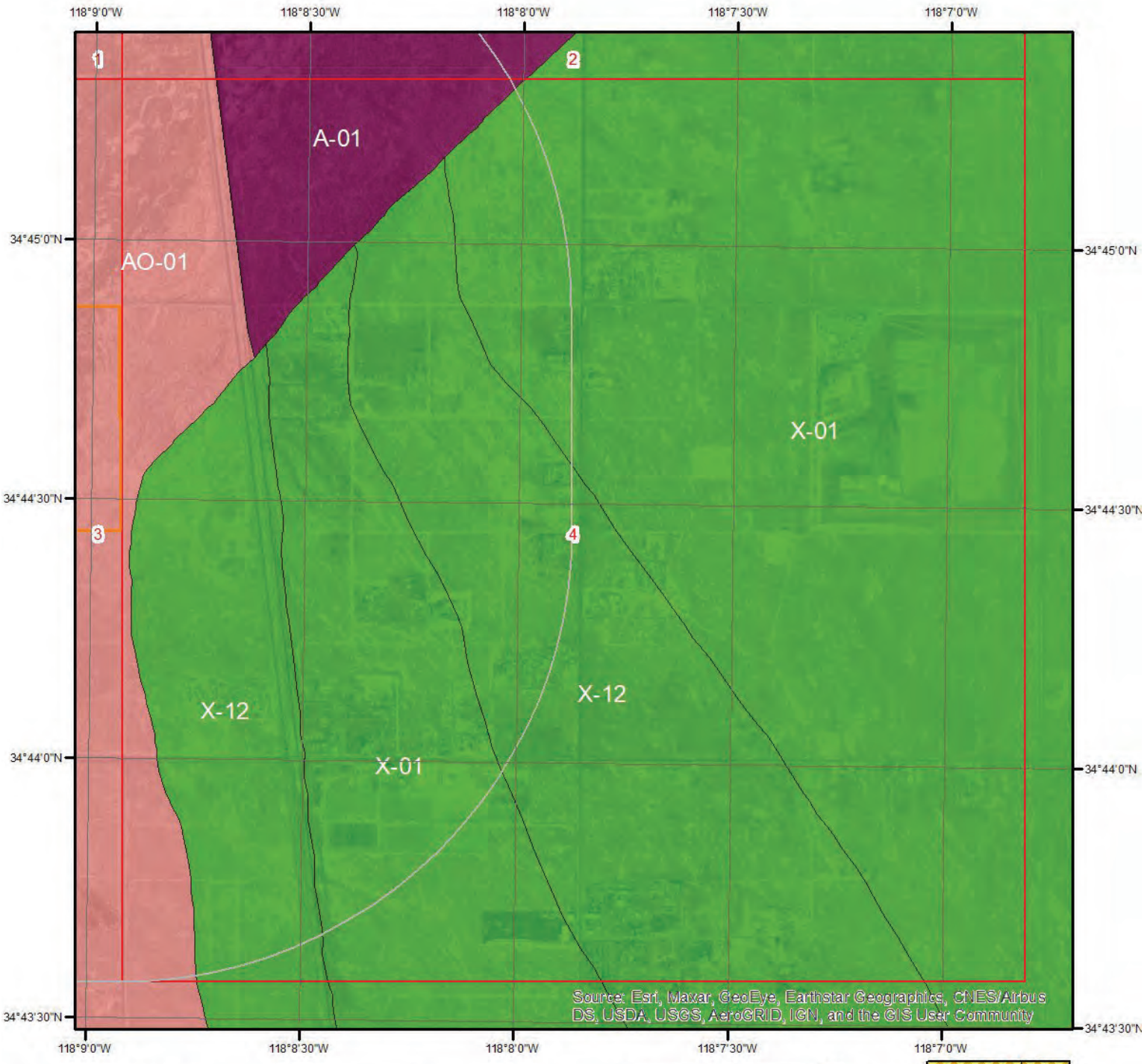


A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

Quadrangle(s): Lancaster West,CA; Rosamond,CA

ERIS

Hydrologic Information



Flood Hazard Zones - Page 4

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

Miles
0 0.2 0.4

N

06037C0175F
06037C0410F
06037C0450F

A	AO	X
A99	V	OPEN WATER
AE	VE	NOT POPULATED
AH	D	AREA NOT INCLUDED

Quadrangle(s): Lancaster East,CA; Lancaster West,CA; Rosamond,CA;

ERIS

Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.
For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

Available FIRM Panels in area:	06029C4025E(effective:2008-09-26) 06037C0175F(effective:2008-09-26) 06037C0410F(effective:2008-09-26)

Flood Zone A-01

Zone:	A
Zone subtype:	

Flood Zone AH-01

Zone:	AH
Zone subtype:	

Flood Zone AO-01

Zone:	AO
Zone subtype:	

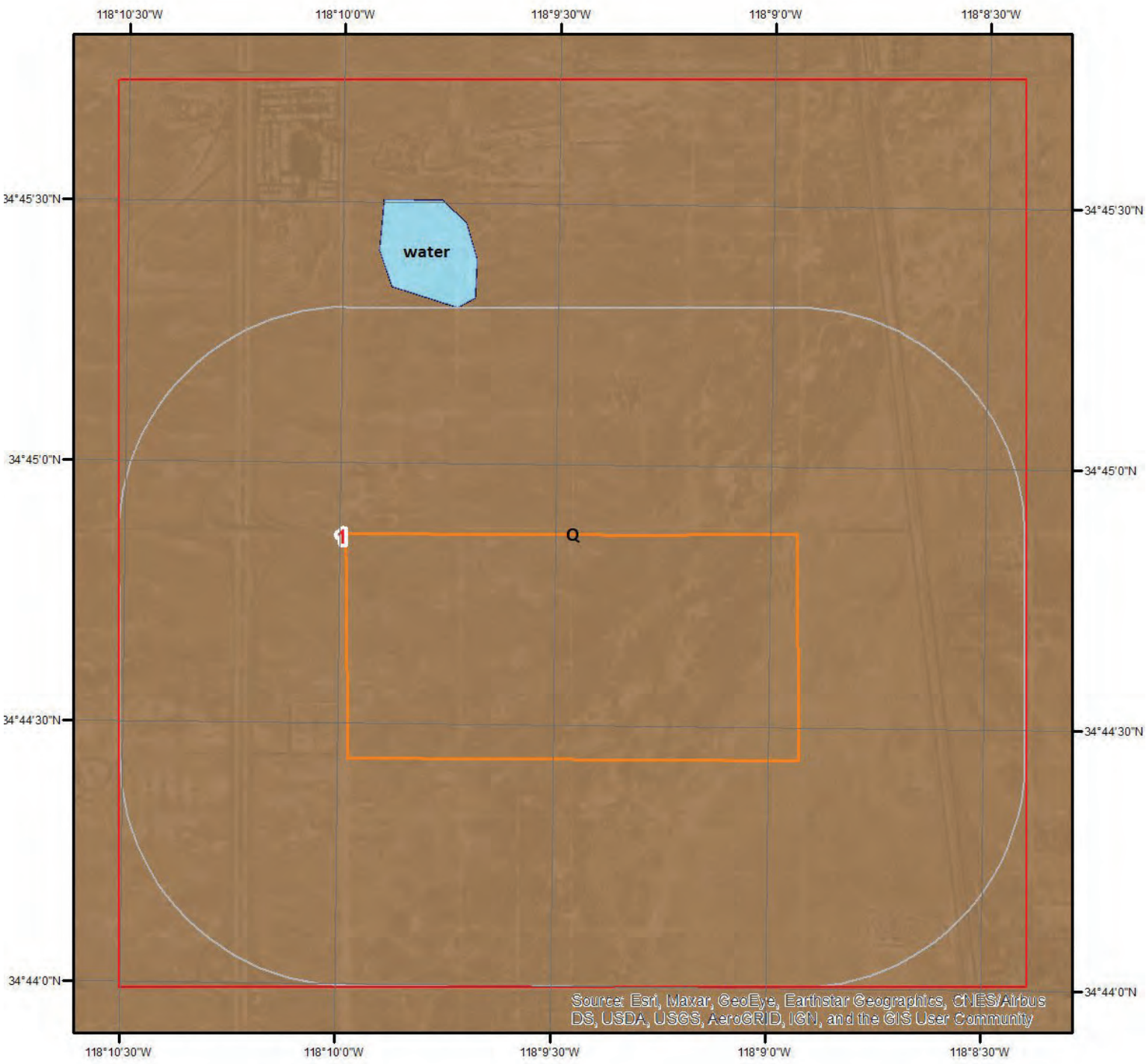
Flood Zone X-01

Zone:	X
Zone subtype:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Flood Zone X-12

Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



0 0.425 0.85 Miles

N

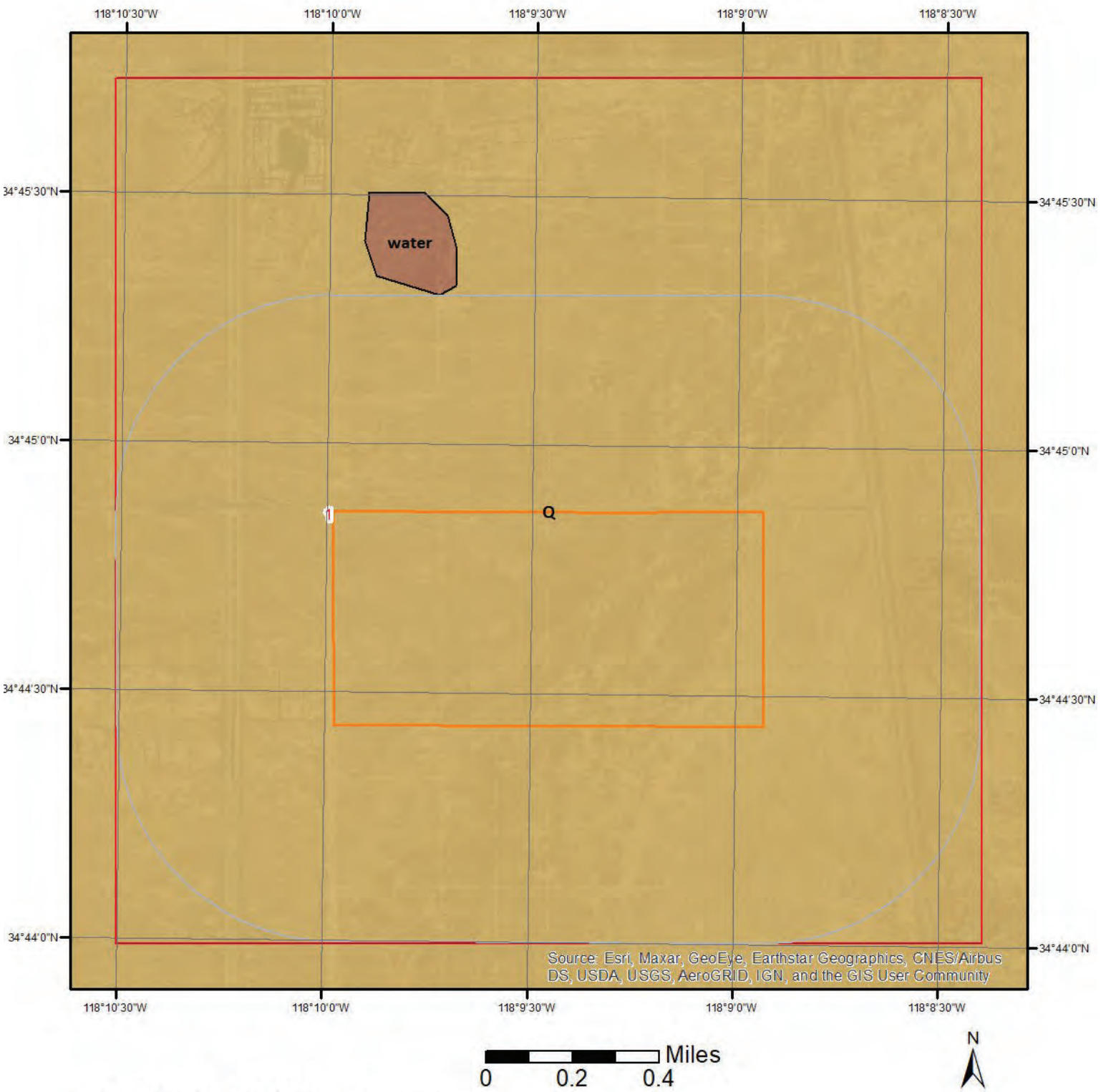
Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

ERIS

0 0.4 0.8 Miles

Geologic Information



Geologic Units - Page 1

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.

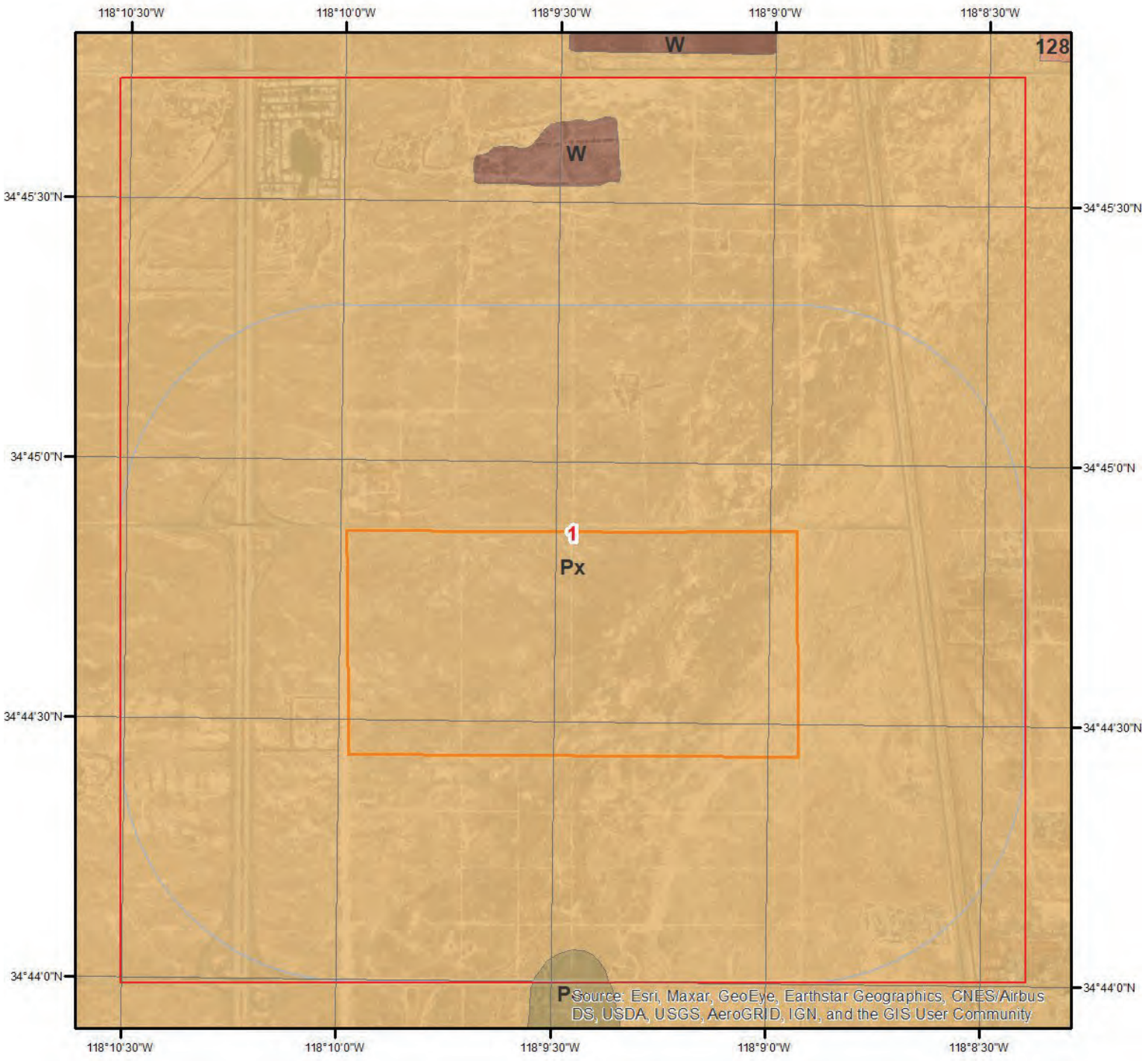
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Q

Unit Name:	Quaternary alluvium and marine deposits
Unit Age:	Pliocene to Holocene
Primary Rock Type:	alluvium
Secondary Rock Type:	terrace
Unit Description:	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Soil Information



SSURGO Soils

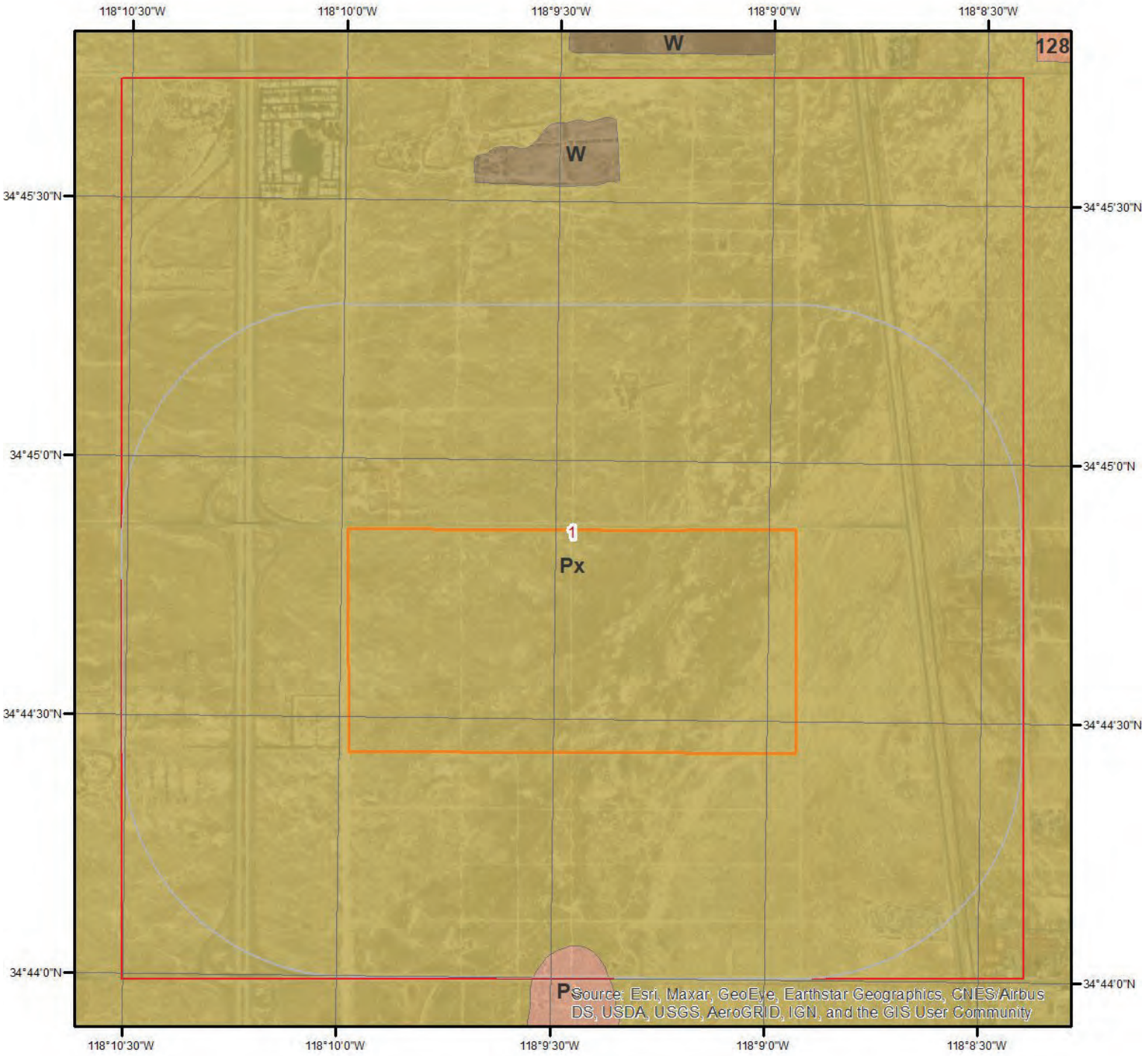
0 0.2 0.4 Miles

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information



SSURGO Soils - Page 1

Miles
0 0.2 0.4

N

This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.

ERIS

Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit Po (12.33%)

Map Unit Name:	Pond loam
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Pond(85%)

horizon H1(0cm to 10cm)	Loam
horizon H2(10cm to 61cm)	Clay loam
horizon H3(61cm to 183cm)	Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Po - Pond loam

Component: Pond (85%)
The Pond component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on basin floors. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R030XG020CA Alkali Flats 4-9" ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 15 within 30 inches of the soil surface.

Component: Tray (10%)
Generated brief soil descriptions are created for major soil components. The Tray soil is a minor component.

Component: Unnamed (4%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Component: Unnamed (1%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit Px (87.67%)

Map Unit Name:	Pond-Oban complex
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Pond(50%)

horizon H1(0cm to 10cm)	Fine sandy loam
horizon H2(10cm to 61cm)	Clay loam
horizon H3(61cm to 183cm)	Silt loam

Soil Information

Oban(30%)

horizon H1(0cm to 10cm)	Fine sandy loam
horizon H2(10cm to 64cm)	Clay loam
horizon H3(64cm to 79cm)	Clay loam
horizon H3(64cm to 79cm)	Loam
horizon H4(79cm to 135cm)	Stratified gravelly coarse sand to gravelly coarse sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Px - Pond-Oban complex

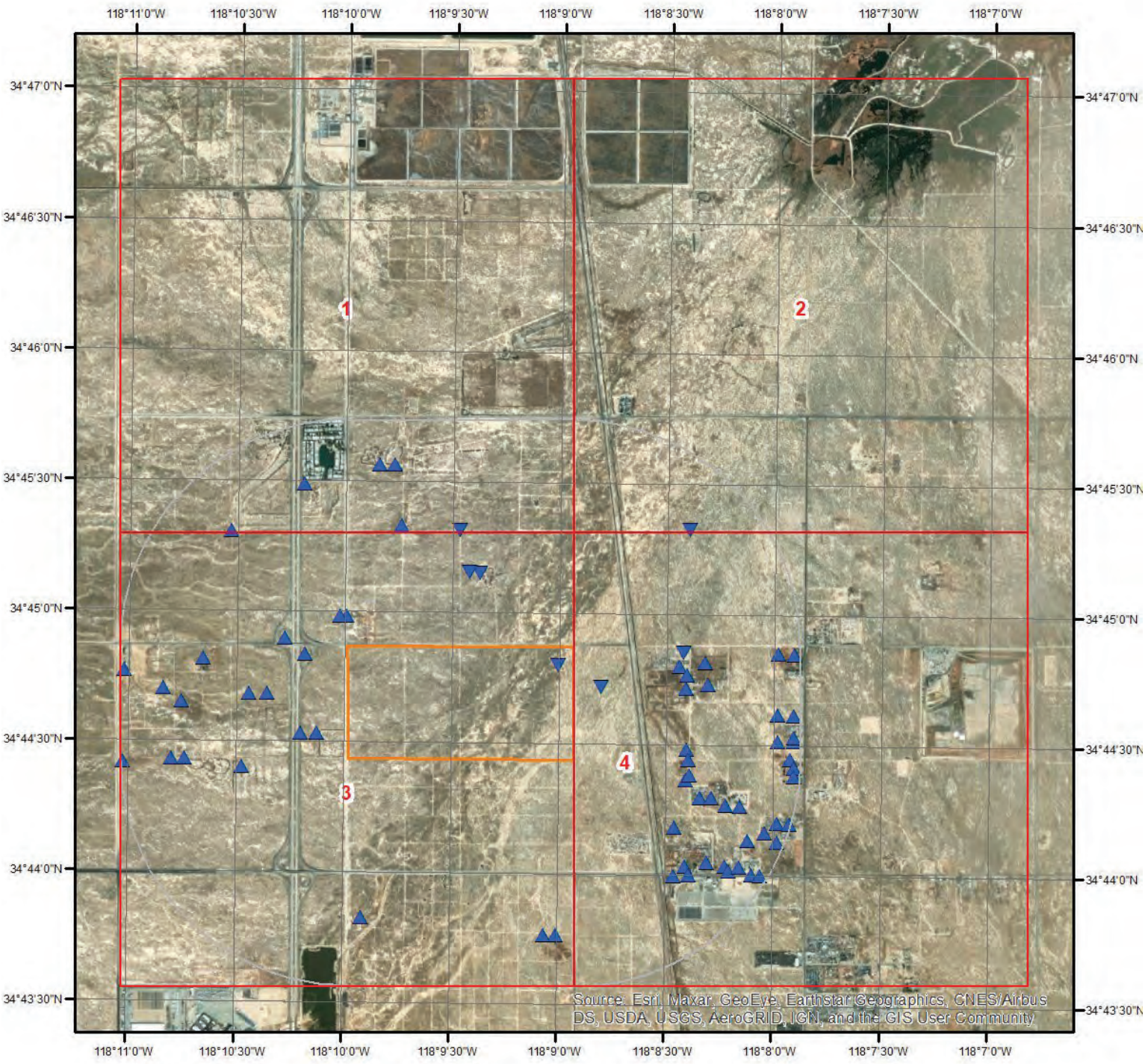
Component: Pond (50%)
The Pond component makes up 50 percent of the map unit. Slopes are 0 to 2 percent. This component is on basin floors. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is rarely flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R030XG020CA Alkali Flats 4-9" ecological site. Nonirrigated land capability classification is 7s. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 15 within 30 inches of the soil surface.

Component: Oban (30%)
The Oban component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on basin floors. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R030XG020CA Alkali Flats 4-9" ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 15 within 30 inches of the soil surface.

Component: Tray (10%)
Generated brief soil descriptions are created for major soil components. The Tray soil is a minor component.

Component: Unnamed (10%)
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Wells and Additional Sources



Wells & Additional Sources

N

0 0.3 0.6 1.2 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 1

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 2

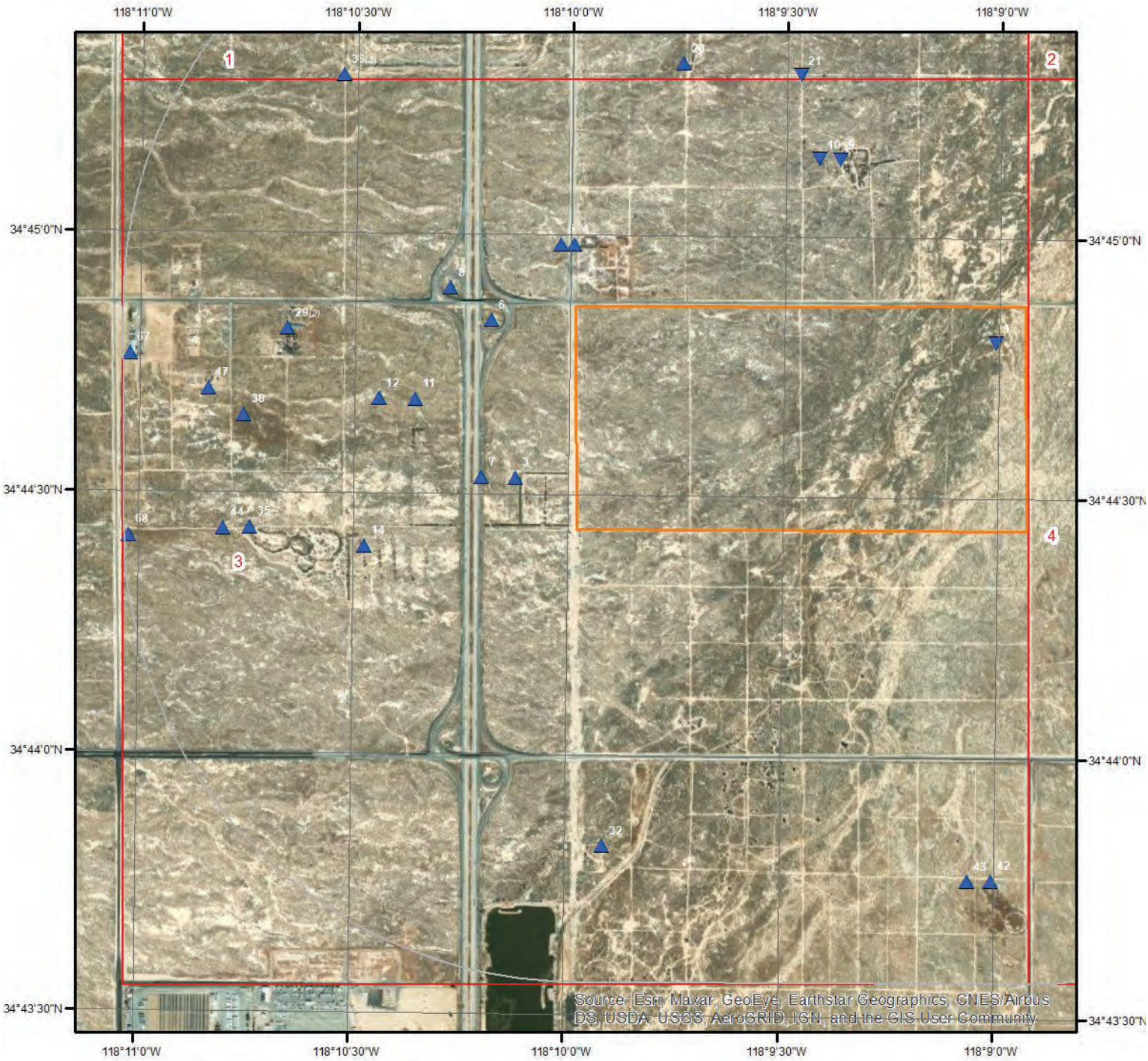
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 3

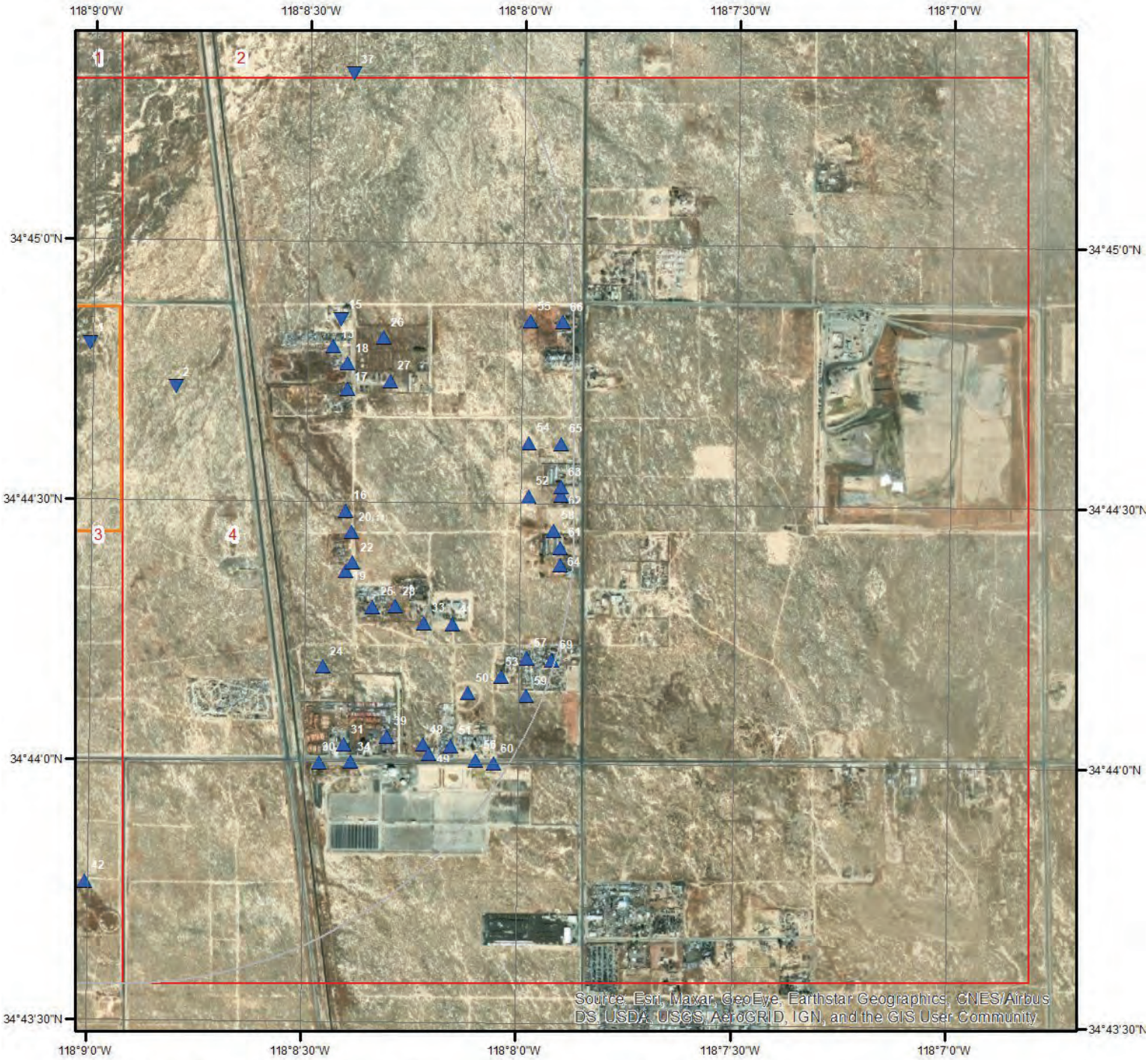
N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources



Wells & Additional Sources - Page 4

N

0 0.15 0.3 0.6 Miles

- Sites with Higher Elevation
- Sites with Same Elevation
- Sites with Lower Elevation
- Sites with Unknown Elevation
- OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- OGW Sites with Lower Elevation
- OGW Sites with Unknown Elevation

ERIS

Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	PWS ID	Distance (ft)	Direction
56	CA1900520	4925.91	ESE

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
	No records found		

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction
1	USGS-344448118085701	0.00	-
2	USGS-344443118084501	644.82	E
3	USGS-344432118100401	717.21	WSW
4	USGS-344459118095601	722.96	NW
9	USGS-344509118091901	1710.80	N
11	USGS-344441118101801	1869.16	W
13	USGS-344448118082301	2486.81	E
14	USGS-344424118102501	2488.70	WSW
15	USGS-344451118082201	2574.22	ENE
16	USGS-344429118082101	2628.42	ESE
17	USGS-344443118082101	2647.03	E
18	USGS-344446118082101	2651.01	E
19	USGS-344422118082101	2662.03	ESE
22	USGS-344423118082001	2729.91	ESE
23	USGS-344520118094101	2836.05	NNW
24	USGS-344411118082401	2837.73	ESE
26	USGS-344449118081601	3072.10	E
27	USGS-344444118081501	3148.90	E
28	USGS-344418118081401	3318.82	ESE
29	USGS-344449118103602	3356.44	W
29	USGS-344449118103601	3356.44	W
31	USGS-344402118082101	3599.66	SE
34	USGS-344400118082001	3799.90	SE
35	USGS-344426118104101	3814.55	W
38	USGS-344439118104201	3874.80	W
39	USGS-344403118081501	3917.79	ESE
40	USGS-344500118100001	3930.48	NW
41	USGS-344416118080601	4015.90	ESE
42	USGS-344346118085701	4077.62	SSE
46	USGS-344534118094301	4252.23	NNW
47	USGS-344442118104701	4286.55	W
49	USGS-344401118080901	4441.33	ESE
51	USGS-344402118080601	4593.00	ESE
53	USGS-344410118075901	4757.74	ESE
60	USGS-344400118080001	5124.91	ESE
61	USGS-344425118075101	5130.17	E
62	USGS-344431118075101	5133.96	E
63	USGS-344432118075101	5135.28	E
64	USGS-344423118075101	5139.61	ESE
65	USGS-344437118075101	5141.88	E
66	USGS-344451118075101	5160.34	E

67	USGS-344446118105801	5197.04	W
68	USGS-344425118105801	5234.56	W
69	USGS-344412118075201	5249.77	ESE

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Periodic Groundwater Level Measurement Locations

Map Key	Site Code	Distance (ft)	Direction
5	347497N1181674W001	742.22	NW
7	347422N1181696W001	1112.30	W
10	347525N1181571W001	1718.91	N
12	347447N1181735W001	2297.58	W
25	347383N1181390W001	3068.01	ESE
30	347333N1181407W001	3555.55	SE
33	347378N1181368W001	3695.66	ESE
43	347294N1181510W001	4086.16	SSE
44	347405N1181799W001	4126.35	W
45	347594N1181638W001	4245.04	NNW
48	347339N1181368W001	4313.47	ESE
52	347419N1181326W001	4755.11	E
54	347436N1181326W001	4763.19	E
55	347475N1181326W001	4781.73	E
57	347367N1181329W001	4961.39	ESE
58	347408N1181321W001	5050.23	E
59	347355N1181326W001	5104.77	ESE

Well Completion Reports

Map Key	WCR No	Distance (ft)	Direction
6	WCR2020-002407	983.95	WNW
8	WCR2020-002405	1469.79	WNW
20	WCR1956-001521	2686.10	ESE
20	WCR1967-002089	2686.10	ESE
20	WCR1997-010862	2686.10	ESE
20	WCR0218433	2686.10	ESE
20	WCR1971-002446	2686.10	ESE
20	WCR1954-001884	2686.10	ESE
20	WCR1971-002148	2686.10	ESE
20	WCR2005-013624	2686.10	ESE
20	WCR2001-013733	2686.10	ESE
20	WCR2005-013628	2686.10	ESE
20	WCR1964-001958	2686.10	ESE
21	WCR1996-009460	2695.70	N
32	WCR2019-013388	3685.44	SSW
36	WCR1776-007212	3821.76	NW
36	WCR0262333	3821.76	NW
37	WCR1957-001625	3835.95	NE
50	WCR2020-011440	4472.75	ESE

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
56	ESE	0.93	4,925.91	2,324.71	PWSV

Address Line 2:
State Code: CA
Zip Code: 93534
City Name: LANCASTER
Address Line 1: 231 WEST AVENUE G
PWS ID: CA1900520
PWS Type Code: CWS
PWS Type Description: Community Water System
Primary Source Code: GW
Primary Source Desc: Groundwater
PWS Activity Code: A
PWS Activity Description: Active
PWS Deactivation Date:
Phone Number:

--Details--
Population Served Count: 70
City Served:
County Served: Los Angeles
State Served: CA
Zip Code Served:

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	-	0.00	0.00	2,307.90	FED USGS

Organiz Identifier: USGS-CA
Organiz Name: USGS California Water Science Center
Well Depth:
Well Depth Unit:
Well Hole Depth:
W Hole Depth Unit:
Construction Date:
Source Map Scale:
Monitoring Loc Name: 008N012W33Z001S
Monitoring Loc Identifier: USGS-344448118085701
Monitoring Loc Type: Well
Monitoring Loc Desc:
HUC Eight Digit Code: 18090206
Formation Type:
Aquifer Name: Basin and Range basin-fill aquifers
Aquifer Type:
Country Code: US
Provider Name: NWIS
County: LOS ANGELES
Latitude: 34.74664960000000
Longitude: -118.1500729000000

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2305.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	E	0.12	644.82	2,308.56	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	275	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.74526078000000
Source Map Scale:		Longitude:	-118.1467395000000
Monitoring Loc Name:	008N012W34Z001S		
Monitoring Loc Identifier:	USGS-344443118084501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2305.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	WSW	0.14	717.21	2,314.13	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74220525000000
Source Map Scale:		Longitude:	-118.1686845000000
Monitoring Loc Name:	008N012W32H001S		
Monitoring Loc Identifier:	USGS-344432118100401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2311.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	NW	0.14	722.96	2,312.27	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES

Construction Date:		Latitude:	34.74970495000000
Source Map Scale:		Longitude:	-118.1664622000000
Monitoring Loc Name:	008N012W28N001S		
Monitoring Loc Identifier:	USGS-344459118095601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2309.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	N	0.32	1,710.80	2,307.88	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.75248266000000
Source Map Scale:	24000	Longitude:	-118.1561842000000
Monitoring Loc Name:	008N012W28K001S		
Monitoring Loc Identifier:	USGS-344509118091901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	minutes		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2304.00
Vertical Measure Unit:	feet
Vertical Accuracy:	2.5
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	W	0.35	1,869.16	2,316.07	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74470510000000
Source Map Scale:		Longitude:	-118.1725735000000
Monitoring Loc Name:	008N012W32B001S		
Monitoring Loc Identifier:	USGS-344441118101801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2313.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	E	0.47	2,486.81	2,309.62	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19560101	Latitude:	34.74664964000000
Source Map Scale:		Longitude:	-118.1406282000000
Monitoring Loc Name:	008N012W34C002S		
Monitoring Loc Identifier:	USGS-344448118082301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2307.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	WSW	0.47	2,488.70	2,317.42	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.73998309000000
Source Map Scale:		Longitude:	-118.1745180000000
Monitoring Loc Name:	008N012W32K001S		
Monitoring Loc Identifier:	USGS-344424118102501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2315.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	ENE	0.49	2,574.22	2,309.22	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74748294000000
Source Map Scale:		Longitude:	-118.1403504000000
Monitoring Loc Name:	008N012W34C001S		
Monitoring Loc Identifier:	USGS-344451118082201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2307.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	ESE	0.50	2,628.42	2,314.28	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	269	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.74137208000000
Source Map Scale:		Longitude:	-118.1400727000000
Monitoring Loc Name:	008N012W34F001S		
Monitoring Loc Identifier:	USGS-344429118082101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2311.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	E	0.50	2,647.03	2,311.91	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	100	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Construction Date:	19510101	Latitude:	34.74526080000000
Source Map Scale:		Longitude:	-118.1400726000000
Monitoring Loc Name:	008N012W34C004S		
Monitoring Loc Identifier:	USGS-344443118082101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2308.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	E	0.50	2,651.01	2,310.76	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	100	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19550101	Latitude:	34.74609410000000
Source Map Scale:		Longitude:	-118.1400726000000
Monitoring Loc Name:	008N012W34C003S		
Monitoring Loc Identifier:	USGS-344446118082101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2308.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	ESE	0.50	2,662.03	2,315.78	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	85.0	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.73942770000000
Source Map Scale:		Longitude:	-118.1400727000000
Monitoring Loc Name:	008N012W34L001S		
Monitoring Loc Identifier:	USGS-344422118082101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2313.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	ESE	0.52	2,729.91	2,315.77	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	21.0	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.73970548000000
Source Map Scale:		Longitude:	-118.1397949000000
Monitoring Loc Name:	008N012W34L002S		
Monitoring Loc Identifier:	USGS-344423118082001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2313.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NNW	0.54	2,836.05	2,309.68	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.75553806000000
Source Map Scale:	24000	Longitude:	-118.1622955000000
Monitoring Loc Name:	008N012W28F001S		
Monitoring Loc Identifier:	USGS-344520118094101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2308.00
Vertical Measure Unit:	feet
Vertical Accuracy:	2.5
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	ESE	0.54	2,837.73	2,317.64	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	380	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19060101	Latitude:	34.73637228000000
Source Map Scale:		Longitude:	-118.1409060000000
Monitoring Loc Name:	008N012W34P003S		
Monitoring Loc Identifier:	USGS-344411118082401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2315.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	E	0.58	3,072.10	2,310.55	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	102	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	102	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19620101	Latitude:	34.74692740000000
Source Map Scale:		Longitude:	-118.1386837000000
Monitoring Loc Name:	008N012W34B001S		
Monitoring Loc Identifier:	USGS-344449118081601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2308.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	E	0.60	3,148.90	2,311.82	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Construction Date:		Latitude:	34.74553858000000
Source Map Scale:		Longitude:	-118.1384059000000
Monitoring Loc Name:	008N012W34B002S		
Monitoring Loc Identifier:	USGS-344444118081501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2309.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	ESE	0.63	3,318.82	2,317.16	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	143.9	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.73831666000000
Source Map Scale:	24000	Longitude:	-118.1381282000000
Monitoring Loc Name:	008N012W34K001S		
Monitoring Loc Identifier:	USGS-344418118081401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2316.
Vertical Measure Unit:	feet
Vertical Accuracy:	5
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	W	0.64	3,356.44	2,318.07	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	150	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19530101	Latitude:	34.74692724000000
Source Map Scale:		Longitude:	-118.1775736000000
Monitoring Loc Name:	008N012W32C002S		
Monitoring Loc Identifier:	USGS-344449118103602		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2315.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	W	0.64	3,356.44	2,318.07	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:	19150101	Latitude:	34.74692724000000
Source Map Scale:		Longitude:	-118.1775736000000
Monitoring Loc Name:	008N012W32C001S		
Monitoring Loc Identifier:	USGS-344449118103601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2315.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	SE	0.68	3,599.66	2,320.88	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	151	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19580101	Latitude:	34.73387238000000
Source Map Scale:		Longitude:	-118.1400727000000
Monitoring Loc Name:	008N012W34P002S		
Monitoring Loc Identifier:	USGS-344402118082101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2318.00
Vertical Measure Unit:	feet
Vertical Accuracy:	20
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	SE	0.72	3,799.90	2,322.51	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	150	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.73331685000000
Source Map Scale:	24000	Longitude:	-118.1397949000000
Monitoring Loc Name:	008N012W34P001S		
Monitoring Loc Identifier:	USGS-344400118082001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2318.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	2.5		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	W	0.72	3,814.55	2,318.73	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74053860000000
Source Map Scale:	24000	Longitude:	-118.1789626000000
Monitoring Loc Name:	008N012W32L001S		
Monitoring Loc Identifier:	USGS-344426118104101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2317.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	W	0.73	3,874.80	2,319.76	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES

Construction Date:		Latitude:	34.74414956000000
Source Map Scale:		Longitude:	-118.1792403000000
Monitoring Loc Name:	008N012W32C003S		
Monitoring Loc Identifier:	USGS-344439118104201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2318.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	ESE	0.74	3,917.79	2,321.36	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19500101	Latitude:	34.73415016000000
Source Map Scale:		Longitude:	-118.1384060000000
Monitoring Loc Name:	008N012W34Q001S		
Monitoring Loc Identifier:	USGS-344403118081501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2318.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	NW	0.74	3,930.48	2,311.70	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	300	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	303	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19990929	Latitude:	34.75813889000000
Source Map Scale:	24000	Longitude:	-118.1698610000000
Monitoring Loc Name:	008N012W29H001S		
Monitoring Loc Identifier:	USGS-344500118100001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	.5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2312		
Vertical Measure Unit:	feet		
Vertical Accuracy:	2.5		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from Digital Elevation Model		
Vert Coord Refer System:	NAVD88		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	ESE	0.76	4,015.90	2,319.39	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19530101	Latitude:	34.73776110000000
Source Map Scale:		Longitude:	-118.1359059000000
Monitoring Loc Name:	008N012W34K002S		
Monitoring Loc Identifier:	USGS-344416118080601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2316.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	SSE	0.77	4,077.62	2,315.12	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.72942807000000
Source Map Scale:		Longitude:	-118.1500730000000
Monitoring Loc Name:	007N012W04H001S		
Monitoring Loc Identifier:	USGS-344346118085701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2313.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	NNW	0.81	4,252.23	2,309.52	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	316	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	316	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.75942678000000
Source Map Scale:	24000	Longitude:	-118.1628510000000
Monitoring Loc Name:	008N012W28D001S		
Monitoring Loc Identifier:	USGS-344534118094301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2308.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	2.5		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	W	0.81	4,286.55	2,320.25	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74498286000000
Source Map Scale:		Longitude:	-118.1806292000000
Monitoring Loc Name:	008N012W32D002S		
Monitoring Loc Identifier:	USGS-344442118104701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2317.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	ESE	0.84	4,441.33	2,323.92	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES

Construction Date:		Latitude:	34.73359460000000
Source Map Scale:		Longitude:	-118.1367393000000
Monitoring Loc Name:	008N012W34Q002S		
Monitoring Loc Identifier:	USGS-344401118080901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2320.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
51	ESE	0.87	4,593.00	2,323.57	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.73387240000000
Source Map Scale:		Longitude:	-118.1359059000000
Monitoring Loc Name:	008N012W34Q003S		
Monitoring Loc Identifier:	USGS-344402118080601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2320.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
53	ESE	0.90	4,757.74	2,322.73	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:	19550101	Latitude:	34.73609454000000
Source Map Scale:		Longitude:	-118.1339614000000
Monitoring Loc Name:	008N012W34R006S		
Monitoring Loc Identifier:	USGS-344410118075901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2320.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
60	ESE	0.97	5,124.91	2,323.17	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.73331688000000
Source Map Scale:		Longitude:	-118.1342392000000
Monitoring Loc Name:	008N012W34R002S		
Monitoring Loc Identifier:	USGS-344400118080001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2321.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
61	E	0.97	5,130.17	2,319.38	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	110	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19530101	Latitude:	34.74026105000000
Source Map Scale:		Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34J002S		
Monitoring Loc Identifier:	USGS-344425118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2317.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
62	E	0.97	5,133.96	2,317.75	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74192765000000
Source Map Scale:		Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34H003S		
Monitoring Loc Identifier:	USGS-344431118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2315.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
63	E	0.97	5,135.28	2,317.42	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:	19540101	Latitude:	34.74220540000000
Source Map Scale:		Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34H004S		
Monitoring Loc Identifier:	USGS-344432118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2315.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
64	ESE	0.97	5,139.61	2,320.04	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Construction Date:	19520101	Latitude:	34.73970550000000
Source Map Scale:		Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34J001S		
Monitoring Loc Identifier:	USGS-344423118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2317.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
65	E	0.97	5,141.88	2,316.25	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	5	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.74359425000000
Source Map Scale:	24000	Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34H005S		
Monitoring Loc Identifier:	USGS-344437118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2314
Vertical Measure Unit:	feet
Vertical Accuracy:	5
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
66	E	0.98	5,160.34	2,313.14	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	100	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	100	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19500101	Latitude:	34.74748298000000
Source Map Scale:		Longitude:	-118.1317390000000
Monitoring Loc Name:	008N012W34A002S		
Monitoring Loc Identifier:	USGS-344451118075101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2310.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
67	W	0.98	5,197.04	2,321.72	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	300	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.74609390000000
Source Map Scale:		Longitude:	-118.1836849000000
Monitoring Loc Name:	008N012W32D001S		
Monitoring Loc Identifier:	USGS-344446118105801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2319.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
68	W	0.99	5,234.56	2,321.68	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	64.0	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.74026080000000
Source Map Scale:		Longitude:	-118.1836849000000
Monitoring Loc Name:	008N012W32M001S		
Monitoring Loc Identifier:	USGS-344425118105801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Drainage Area:	
Drainage Area Unit:	
Contrib Drainage Area:	
Contrib Drainage Area Unit:	
Horizontal Accuracy:	1
Horizontal Accuracy Unit:	seconds
Horizontal Collection Mthd:	Interpolated from MAP.
Horiz Coord Refer System:	NAD83
Vertical Measure:	2318.00
Vertical Measure Unit:	feet
Vertical Accuracy:	5.
Vertical Accuracy Unit:	feet
Vertical Collection Mthd:	Interpolated from topographic map.
Vert Coord Refer System:	NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
69	ESE	0.99	5,249.77	2,323.26	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	125	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.73665008000000
Source Map Scale:		Longitude:	-118.1320169000000
Monitoring Loc Name:	008N012W34R005S		
Monitoring Loc Identifier:	USGS-344412118075201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2321.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Periodic Groundwater Level Measurement Locations

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	NW	0.14	742.22	2,312.48	MONITOR WELLS

Site Code:	347497N1181674W001	Basin ID:	
State Well No:	08N12W28N001S	Basin Code:	6-044
Station ID:	8795	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7497	WLM Method:	Unknown
Longitude:	-118.167	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	W	0.21	1,112.30	2,314.79	MONITOR WELLS

Site Code:	347422N1181696W001	Basin ID:	
State Well No:	08N12W32H001S	Basin Code:	6-044
Station ID:	8801	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7422	WLM Method:	Unknown
Longitude:	-118.17	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	N	0.33	1,718.91	2,307.88	MONITOR WELLS

Site Code:	347525N1181571W001	Basin ID:	
State Well No:	08N12W28K001S	Basin Code:	6-044
Station ID:	8794	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7525	WLM Method:	Unknown
Longitude:	-118.157	WLM Accuracy:	Unknown

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	W	0.44	2,297.58	2,316.76	MONITOR WELLS

Site Code:	347447N1181735W001	Basin ID:	
State Well No:	08N12W32B001S	Basin Code:	6-044
Station ID:	8800	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7447	WLM Method:	Unknown
Longitude:	-118.174	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	ESE	0.58	3,068.01	2,316.90	MONITOR WELLS

Site Code:	347383N1181390W001	Basin ID:	
State Well No:	08N12W34K001S	Basin Code:	6-044
Station ID:	8806	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7383	WLM Method:	Unknown
Longitude:	-118.139	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	SE	0.67	3,555.55	2,321.07	MONITOR WELLS

Site Code:	347333N1181407W001	Basin ID:	
State Well No:	08N12W34P001S	Basin Code:	6-044
Station ID:	8807	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7333	WLM Method:	Unknown
Longitude:	-118.141	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	ESE	0.70	3,695.66	2,318.40	MONITOR WELLS

Site Code:	347378N1181368W001	Basin ID:	
State Well No:	08N12W34K002S	Basin Code:	6-044
Station ID:	29623	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7378	WLM Method:	Unknown
Longitude:	-118.137	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	SSE	0.77	4,086.16	2,314.61	MONITOR WELLS

Site Code:	347294N1181510W001	Basin ID:	
State Well No:	07N12W04H001S	Basin Code:	6-044
Station ID:	29042	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7294	WLM Method:	Unknown
Longitude:	-118.151	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	W	0.78	4,126.35	2,319.47	MONITOR WELLS

Site Code:	347405N1181799W001	Basin ID:	
State Well No:	08N12W32L001S	Basin Code:	6-044
Station ID:	8802	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7405	WLM Method:	Unknown
Longitude:	-118.18	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NNW	0.80	4,245.04	2,310.74	MONITOR WELLS

Site Code:	347594N1181638W001	Basin ID:	

State Well No:	08N12W28D001S	Basin Code:	6-044
Station ID:	29614	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:	316	Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Single Well	Basin Region Order:	6
Well Name:	344534118094301	County Name:	Los Angeles
Latitude:	34.7594	WLM Method:	Unknown
Longitude:	-118.164	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	ESE	0.82	4,313.47	2,322.34	MONITOR WELLS

Site Code:	347339N1181368W001	Basin ID:	
State Well No:	08N12W34Q003S	Basin Code:	6-044
Station ID:	29624	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7339	WLM Method:	Unknown
Longitude:	-118.137	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
52	E	0.90	4,755.11	2,317.43	MONITOR WELLS

Site Code:	347419N1181326W001	Basin ID:	
State Well No:	08N12W34H003S	Basin Code:	6-044
Station ID:	29622	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7419	WLM Method:	Unknown
Longitude:	-118.133	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
54	E	0.90	4,763.19	2,315.78	MONITOR WELLS

Site Code:	347436N1181326W001	Basin ID:	
State Well No:	08N12W34H005S	Basin Code:	6-044
Station ID:	8805	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6

Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7436	WLM Method:	Unknown
Longitude:	-118.133	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
55	E	0.91	4,781.73	2,312.36	MONITOR WELLS

Site Code:	347475N1181326W001	Basin ID:	
State Well No:	08N12W34A002S	Basin Code:	6-044
Station ID:	29621	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7475	WLM Method:	Unknown
Longitude:	-118.133	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
57	ESE	0.94	4,961.39	2,322.67	MONITOR WELLS

Site Code:	347367N1181329W001	Basin ID:	
State Well No:	08N12W34R005S	Basin Code:	6-044
Station ID:	8809	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7367	WLM Method:	Unknown
Longitude:	-118.133	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
58	E	0.96	5,050.23	2,318.84	MONITOR WELLS

Site Code:	347408N1181321W001	Basin ID:	
State Well No:	08N12W34H001S	Basin Code:	6-044
Station ID:	8804	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6

Wells and Additional Sources Detail Report

Well Name:		County Name:	Los Angeles
Latitude:	34.7408	WLM Method:	Unknown
Longitude:	-118.132	WLM Accuracy:	Unknown

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
59	ESE	0.97	5,104.77	2,323.88	MONITOR WELLS

Site Code:	347355N1181326W001	Basin ID:	
State Well No:	08N12W34R003S	Basin Code:	6-044
Station ID:	8808	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.7355	WLM Method:	Unknown
Longitude:	-118.133	WLM Accuracy:	Unknown

Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	WNW	0.19	983.95	2,314.76	WATER WELLS

WCR No:	WCR2020-002407	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74725
Decimal Latitude:	34.74725	Decim Long(OSWCR):	-118.16968
Decimal Longitude:	-118.16968		
Location:	14 Freeway and W Avenue F		
Location(OSWCR):	14 Freeway and W Avenue F		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	WNW	0.28	1,469.79	2,316.62	WATER WELLS

WCR No:	WCR2020-002405	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.748266
Decimal Latitude:	34.748266	Decim Long(OSWCR):	-118.171262
Decimal Longitude:	-118.171262		
Location:	14 Freeway and W Avenue F		
Location(OSWCR):	14 Freeway and W Avenue F		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR1956-001521	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	DIVISION ST		
Location(OSWCR):	DIVISION ST		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR1967-002089	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	DIVISION, AVENUE G		
Location(OSWCR):	DIVISION, AVENUE G		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR1997-010862	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	46645 60th Street West		
Location(OSWCR):	46645 60th Street West		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR0218433	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		

Location:
Location(OSWCR): None
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No: WCR1971-002446
City:
County: Los Angeles
Decimal Latitude: 34.74069
Decimal Longitude: -118.13987
Location: DIVISION ST
Location(OSWCR): DIVISION ST
City(OSWCR): None
County(OSWCR): Los Angeles
Decimal Lat(OSWCR): 34.74069
Decim Long(OSWCR): -118.13987
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No: WCR1954-001884
City:
County: Los Angeles
Decimal Latitude: 34.74069
Decimal Longitude: -118.13987
Location:
Location(OSWCR): None
City(OSWCR): None
County(OSWCR): Los Angeles
Decimal Lat(OSWCR): 34.74069
Decim Long(OSWCR): -118.13987
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No: WCR1971-002148
City:
County: Los Angeles
Decimal Latitude: 34.74069
Decimal Longitude: -118.13987
Location: FIFTH ST W, AVE F
Location(OSWCR): FIFTH ST W, AVE F
City(OSWCR): None
County(OSWCR): Los Angeles
Decimal Lat(OSWCR): 34.74069
Decim Long(OSWCR): -118.13987
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR2005-013624	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	427 W Avenue G		
Location(OSWCR):	427 W Avenue G		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR2001-013733	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	515 W Avenue G East (Lot 30)		
Location(OSWCR):	515 W Avenue G East (Lot 30)		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR2005-013628	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	5th Street West, Avenue G		
Location(OSWCR):	5th Street West, Avenue G		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	ESE	0.51	2,686.10	2,315.10	WATER WELLS

WCR No:	WCR1964-001958	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.74069
Decimal Latitude:	34.74069	Decim Long(OSWCR):	-118.13987
Decimal Longitude:	-118.13987		
Location:	47037 N 4th Street West		
Location(OSWCR):	47037 N 4th Street West		

Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	N	0.51	2,695.70	2,307.85	WATER WELLS

WCR No:	WCR1996-009460	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.75518
Decimal Latitude:	34.75518	Decim Long(OSWCR):	-118.15775
Decimal Longitude:	-118.15775		
Location:	Sierra Highway & Avenue E-8		
Location(OSWCR):	Sierra Highway & Avenue E-8		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	SSW	0.70	3,685.44	2,312.82	WATER WELLS

WCR No:	WCR2019-013388	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.73043
Decimal Latitude:	34.73043	Decim Long(OSWCR):	-118.16516
Decimal Longitude:	-118.16516		
Location:	5667 W 20th St. West ST		
Location(OSWCR):	5667 W 20th St. West ST		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	NW	0.72	3,821.76	2,314.08	WATER WELLS

WCR No:	WCR1776-007212	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.75508
Decimal Latitude:	34.75508	Decim Long(OSWCR):	-118.17549
Decimal Longitude:	-118.17549		
Location:	LEISURE LAKE		
Location(OSWCR):	LEISURE LAKE		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	NW	0.72	3,821.76	2,314.08	WATER WELLS

WCR No:	WCR0262333	City(OSWCR):	None

City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.75508
Decimal Latitude:	34.75508	Decim Long(OSWCR):	-118.17549
Decimal Longitude:	-118.17549		
Location:			
Location(OSWCR):	None		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.73	3,835.95	2,302.74	WATER WELLS

WCR No:	WCR1957-001625	City(OSWCR):	None
City:		County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.75535
Decimal Latitude:	34.75535	Decim Long(OSWCR):	-118.13995
Decimal Longitude:	-118.13995		
Location:			
Location(OSWCR):	None		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	ESE	0.85	4,472.75	2,322.08	WATER WELLS

WCR No:	WCR2020-011440	City(OSWCR):	Lancaster
City:	Lancaster	County(OSWCR):	Los Angeles
County:	Los Angeles	Decimal Lat(OSWCR):	34.735561
Decimal Latitude:	34.735561	Decim Long(OSWCR):	-118.135253
Decimal Longitude:	-118.135253		
Location:	231 W Avenue G		
Location(OSWCR):	231 W Avenue G		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *LOS ANGELES* County: **2**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *LOS ANGELES* County

No Measures/Homes:	69
Geometric Mean:	0.4
Arithmetic Mean:	0.7
Median:	0.5
Standard Deviation:	1
Maximum:	5.6
% >4 pCi/L:	1
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Appendix

Federal Sources

FEMA National Flood Hazard Layer — **FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data — **INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data — **PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level — **RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS) — **SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database — **SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data — **US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo — **US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology — **US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System — **FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

State Sources

Oil and Gas Wells — **OGW**

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of

Appendix

Oil, Gas and Geothermal Resources.

Periodic Groundwater Level Measurement Locations **MONITOR WELLS**

Locations of groundwater level monitoring wells in the Department of Water Resources (DWR)'s Periodic Groundwater Levels dataset. The DWR Periodic Groundwater Levels dataset contains seasonal and long-term groundwater level measurements collected by the Department of Water Resources and cooperating agencies.

Well Completion Reports **WATER WELLS**

List of wells from the Well Completion Reports data made available by the California Department of Water Resources' (DWR) Online System for Well Completion Reports (OSWCR). Please note that the majority of well completion reports have been spatially registered to the center of the 1x1 mile Public Land Survey System section that the well is located in.

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Appendix C

Historical Research Documentation

HISTORICAL AERIALS

Project Property: Proposed Industrial Warehouse Facility
W Avenue F and 20th Street West
Lancaster CA

Project No: 22-12841

Requested By: Rincon Consultants, Inc.

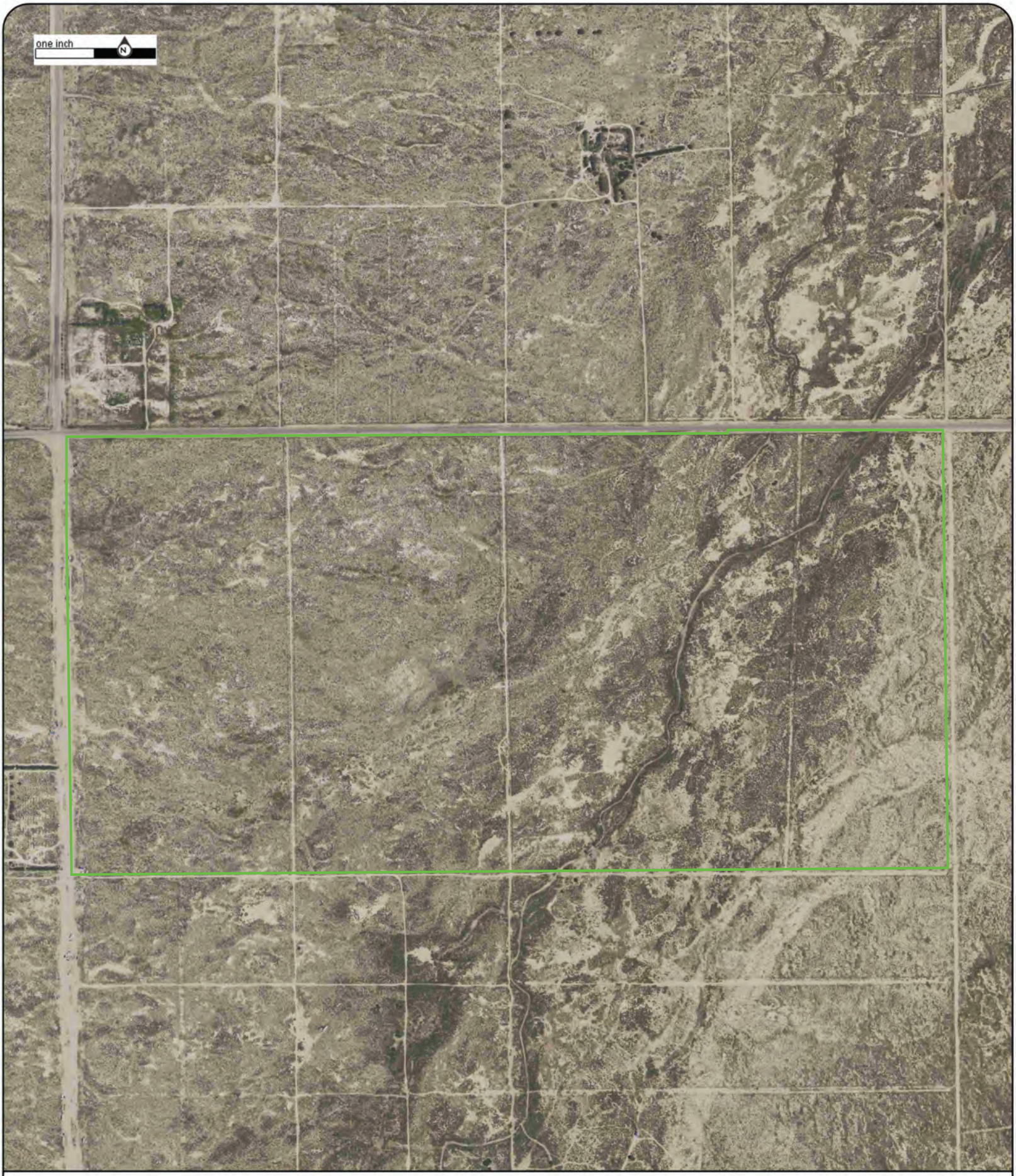
Order No: 22050500704

Date Completed: May 09,2022

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Date	Source	Scale	Comments
2020	United States Department of Agriculture	1" = 700'	
2018	United States Department of Agriculture	1" = 700'	
2016	United States Department of Agriculture	1" = 700'	
2014	United States Department of Agriculture	1" = 700'	
2012	United States Department of Agriculture	1" = 700'	
2010	United States Department of Agriculture	1" = 700'	
2009	United States Department of Agriculture	1" = 700'	
2005	United States Department of Agriculture	1" = 700'	
2003	United States Department of Agriculture	1" = 700'	
1994	United States Geological Survey	1" = 700'	
1987	United States Geological Survey	1" = 700'	
1980	United States Department of Agriculture	1" = 700'	
1974	United States Geological Survey	1" = 700'	
1968	Teledyne	1" = 700'	
1959	Agricultural Stabilization & Conserv. Service	1" = 700'	
1953	Agricultural Stabilization & Conserv. Service	1" = 700'	
1948	Agricultural Stabilization & Conserv. Service	1" = 700'	
1928	FAIRCHILD	1" = 700'	

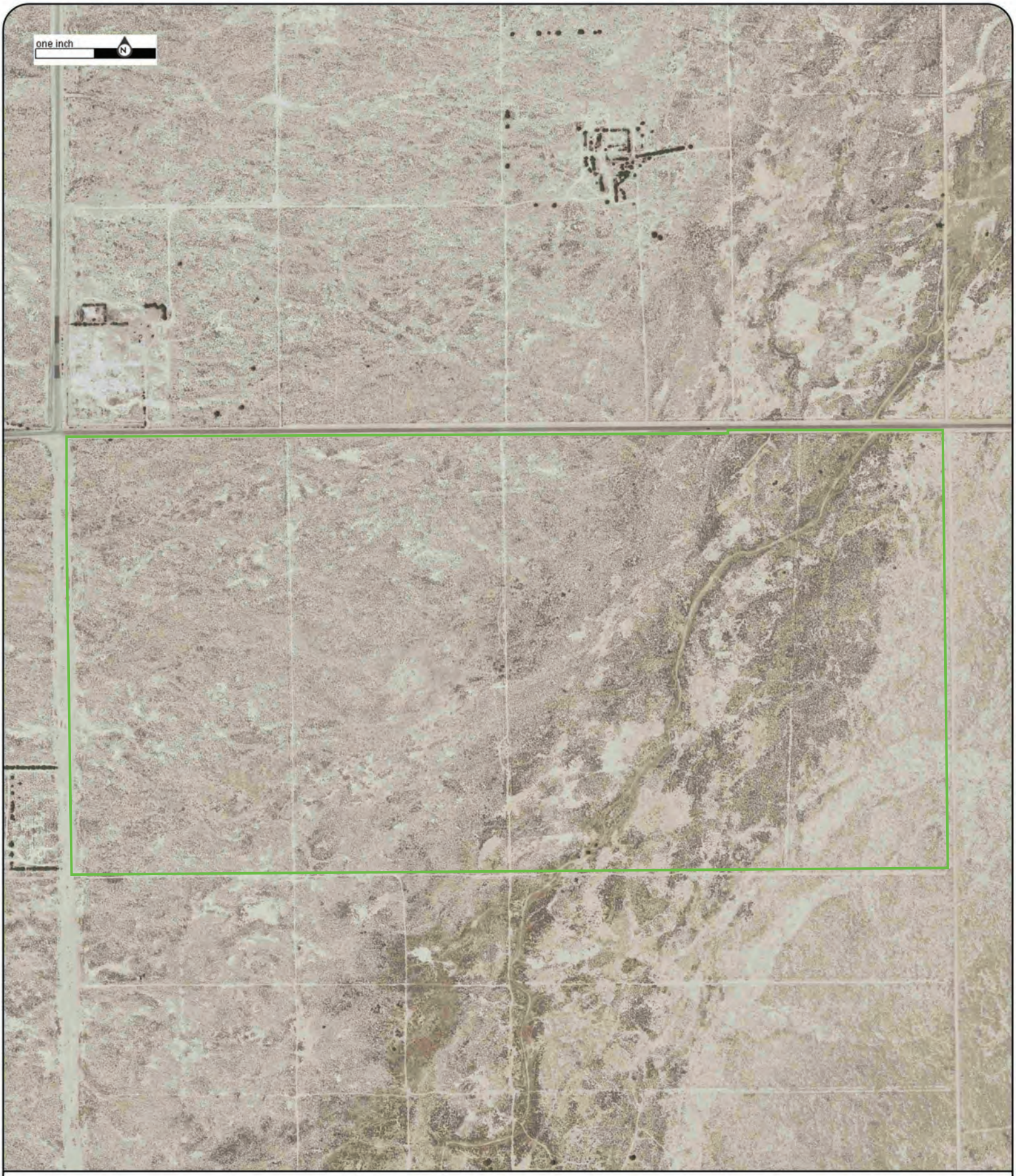


Year: 2020
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS



Year: 2018
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

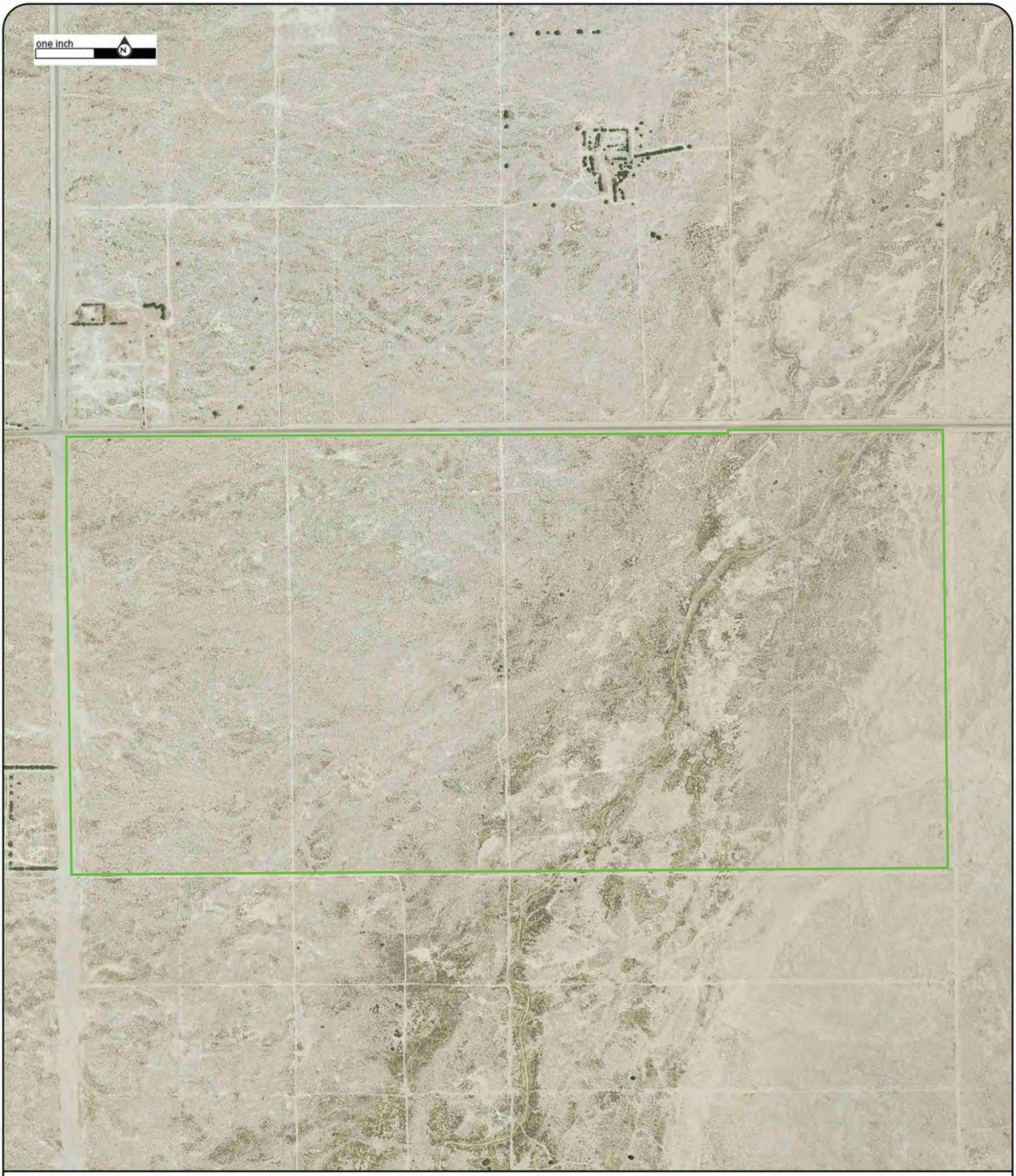


Year: 2016
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

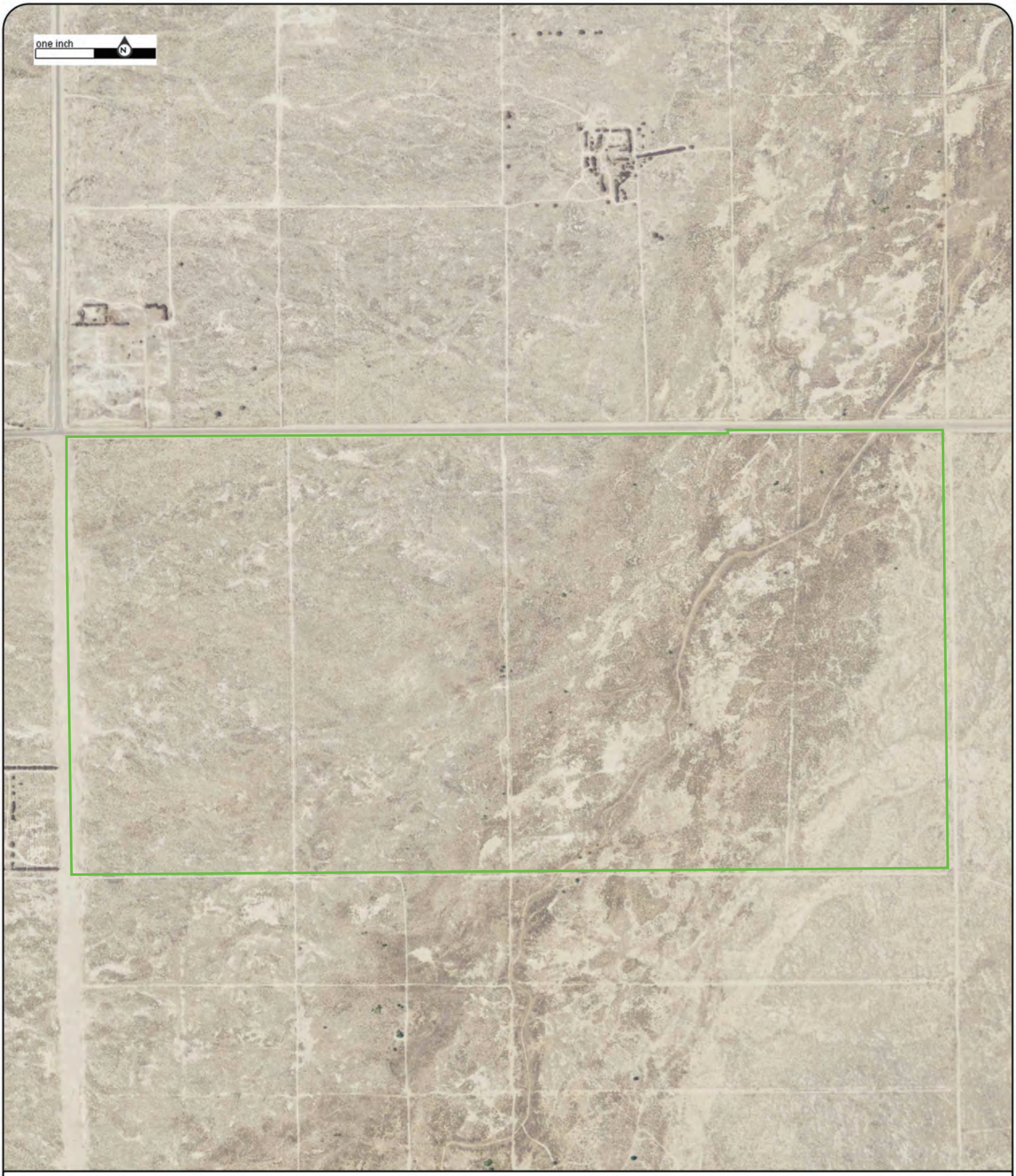


Year: 2014
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

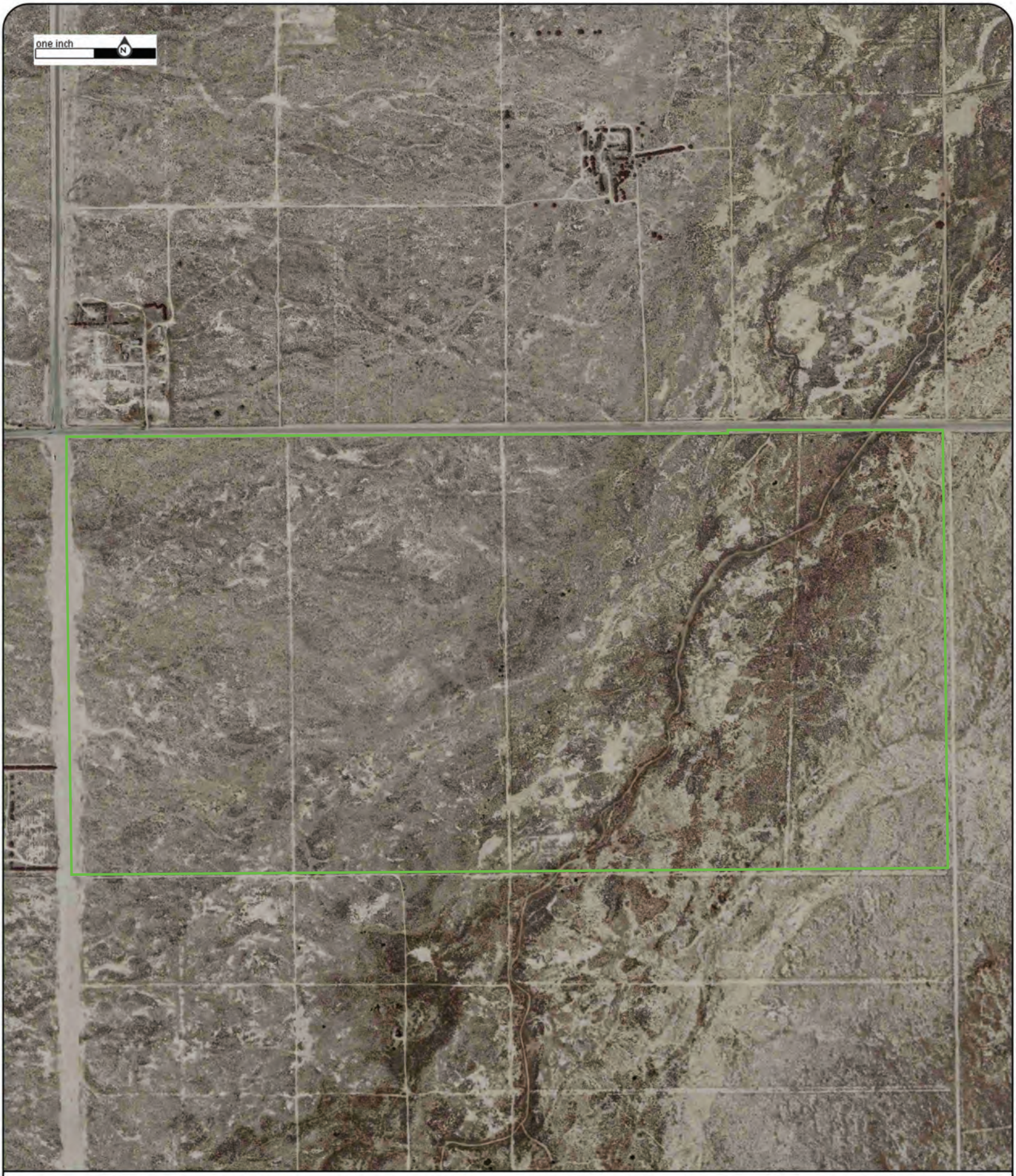


Year: 2012
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

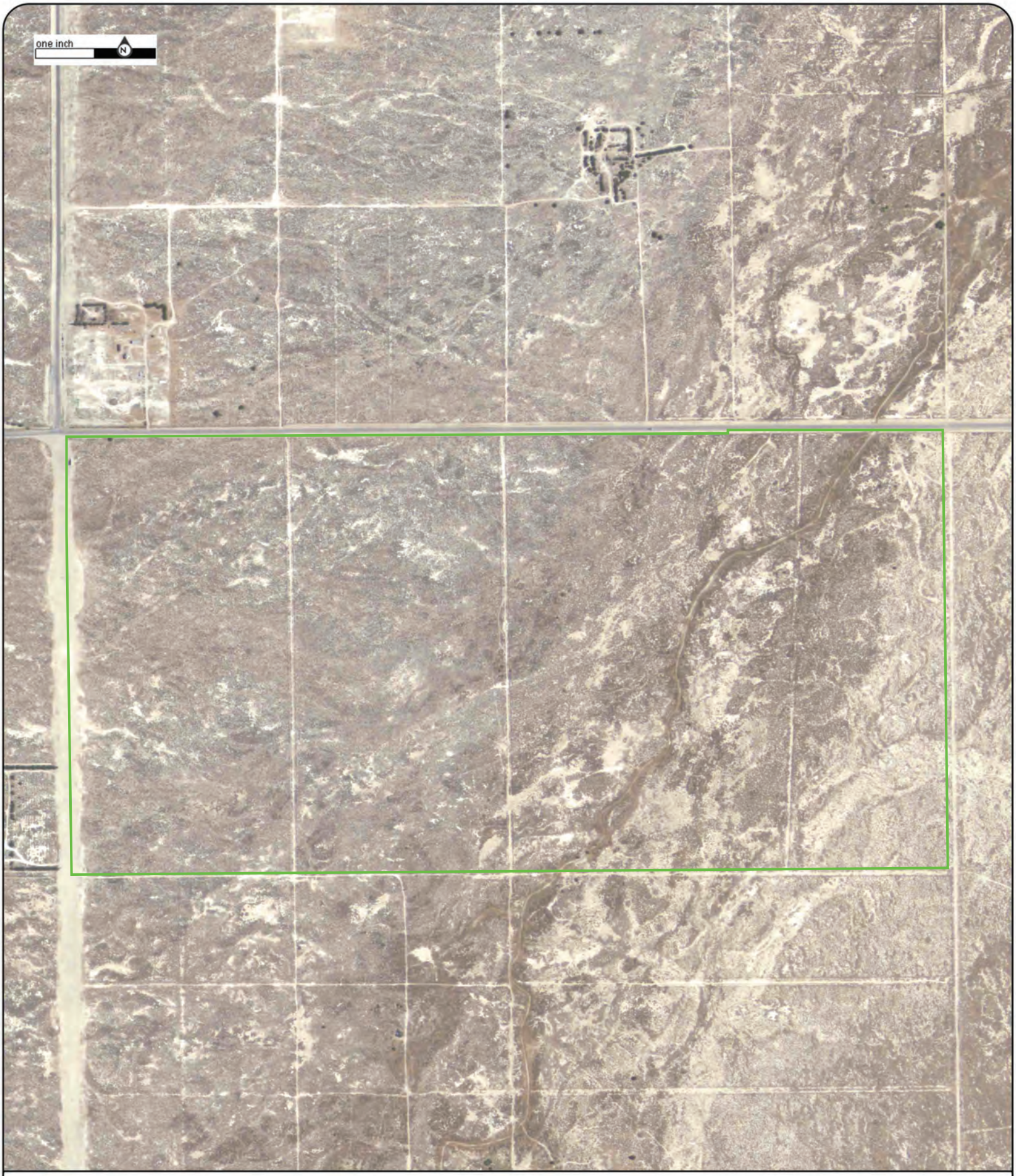


Year: 2010
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

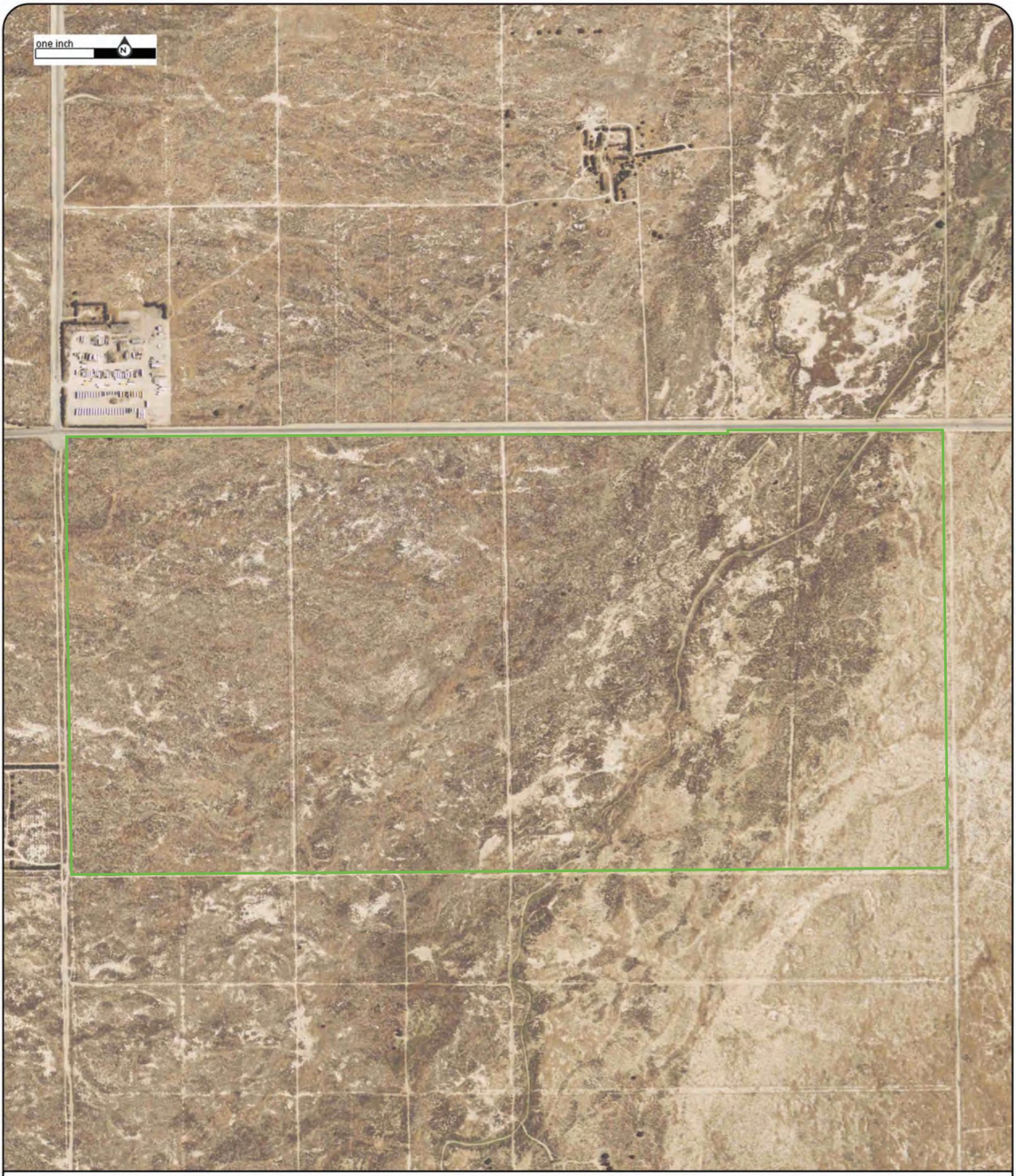


Year: 2009
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

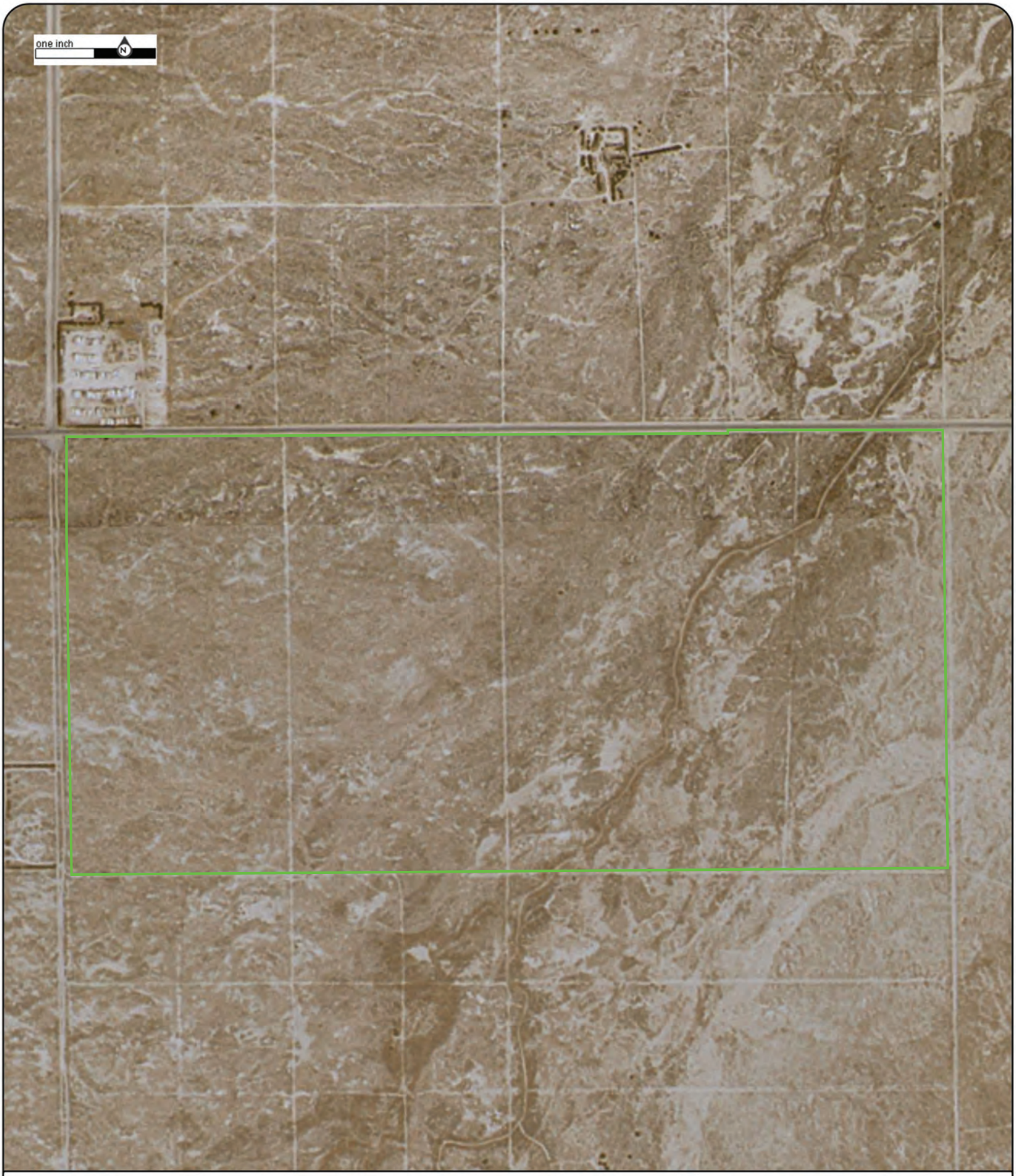


Year: 2005
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

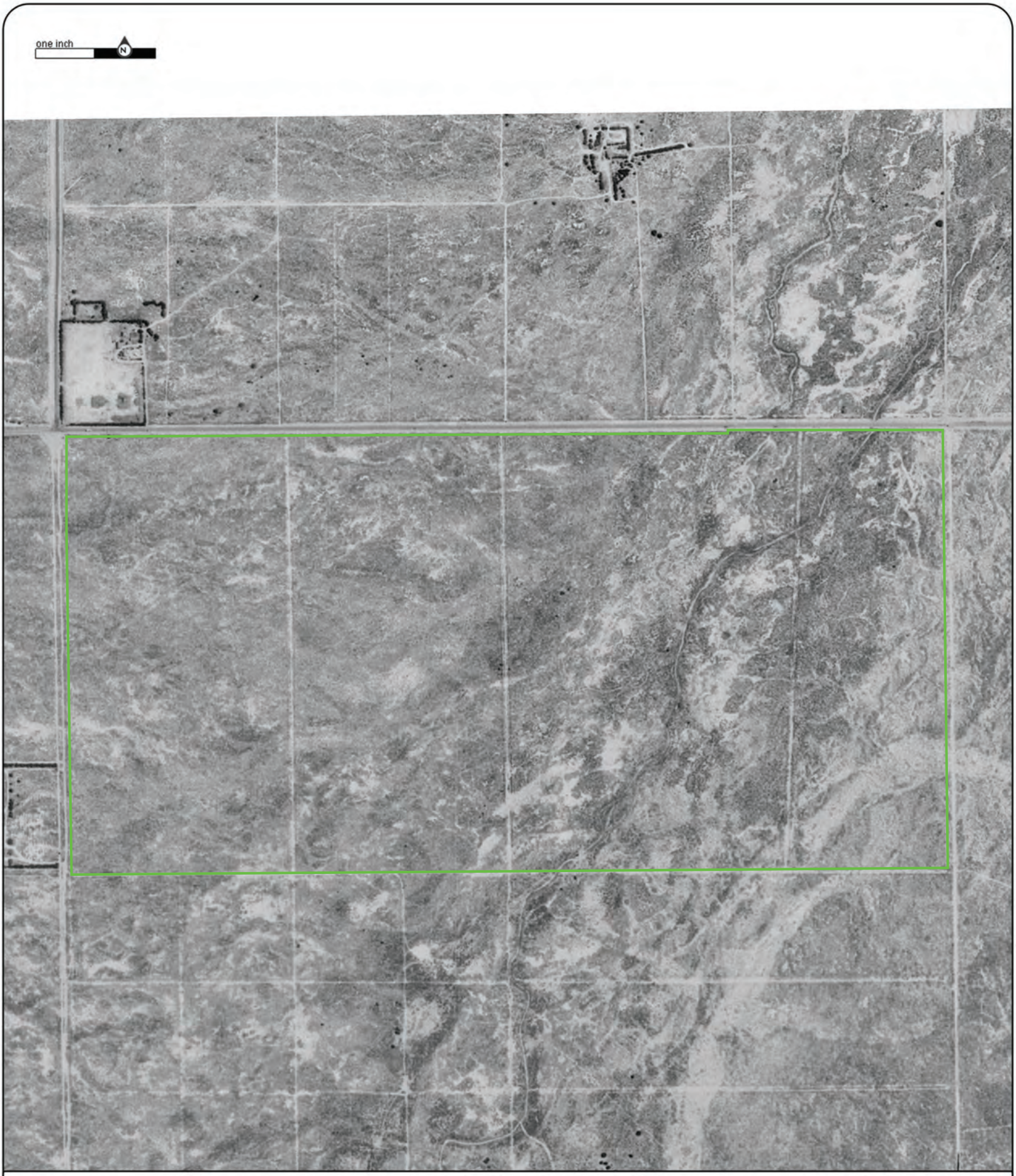


Year: 2003
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

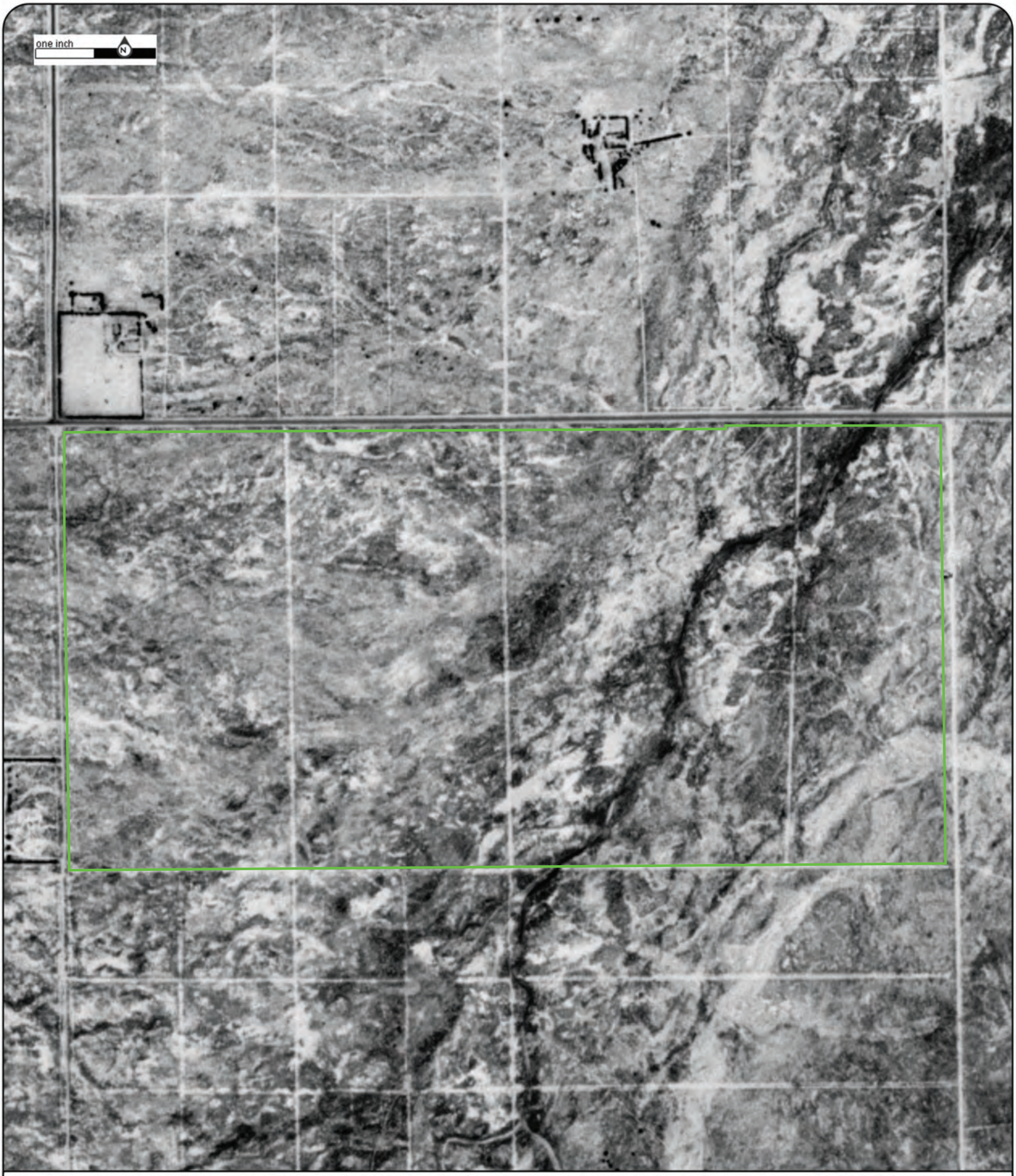


Year: 1994
Source: USGS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS



Year: 1987
Source: USGS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

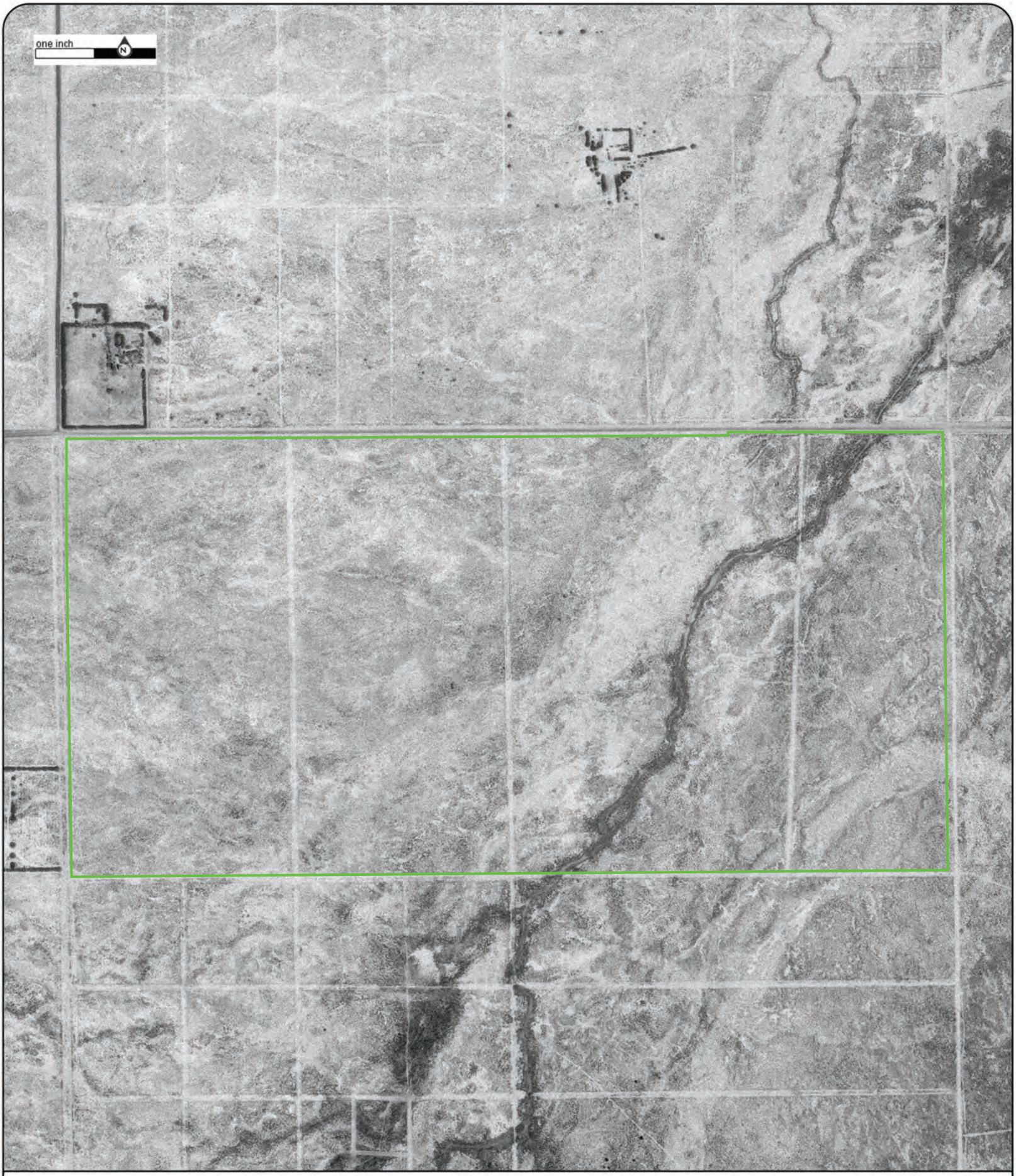


Year: 1980
Source: USDA
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

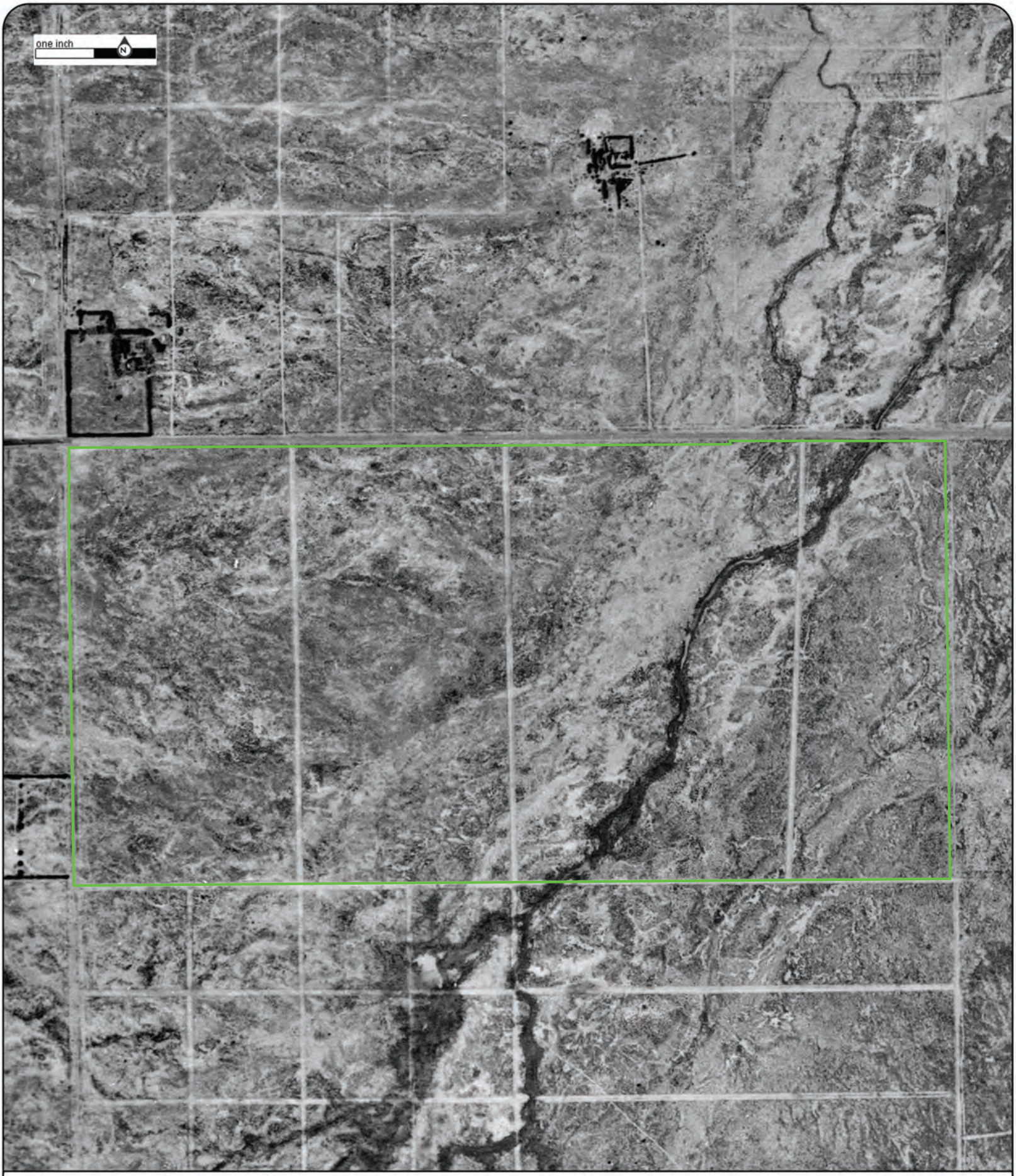


Year: 1974
Source: USGS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

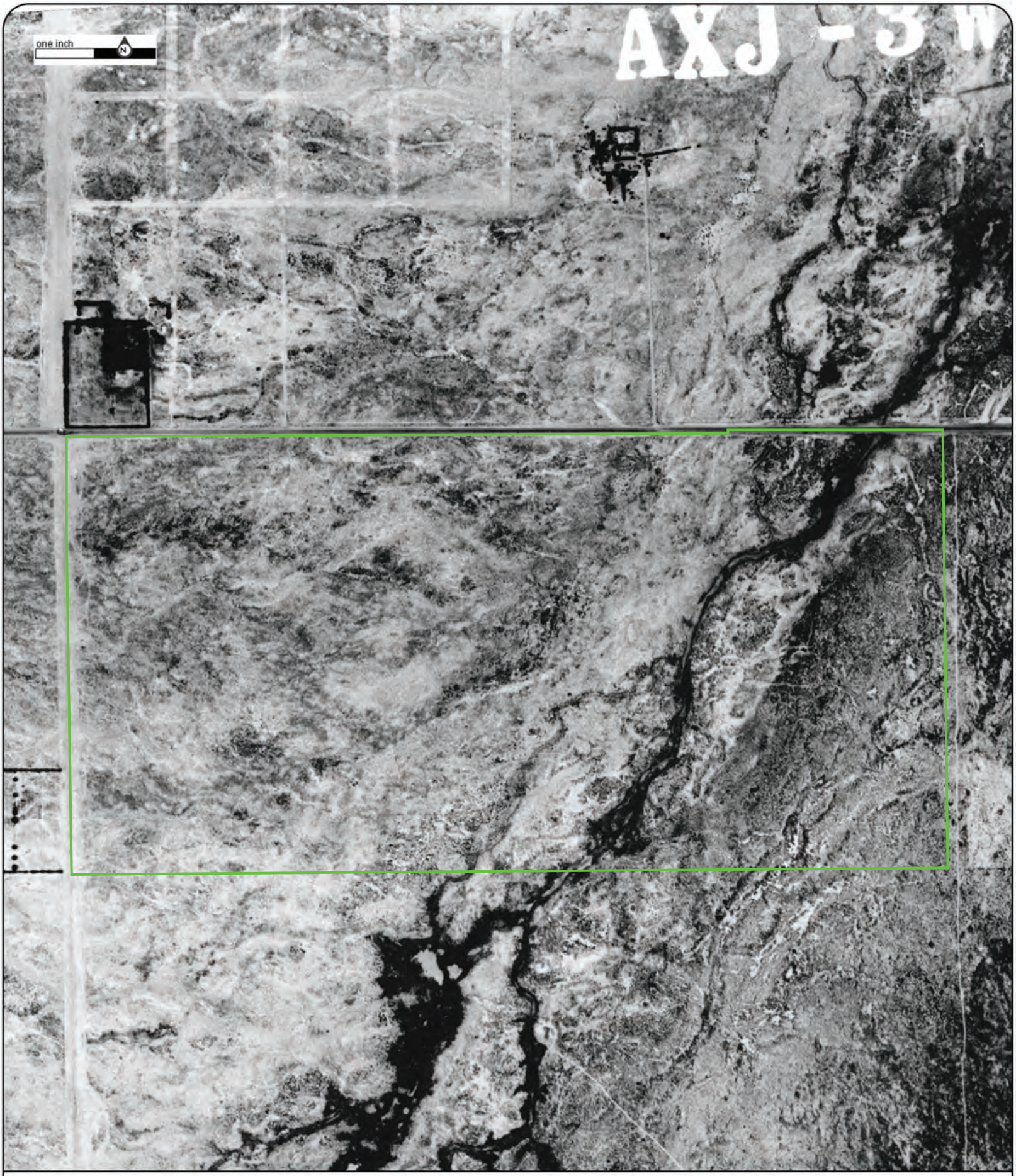


Year: 1968
Source: TG
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS



Year: 1959
Source: ASCS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

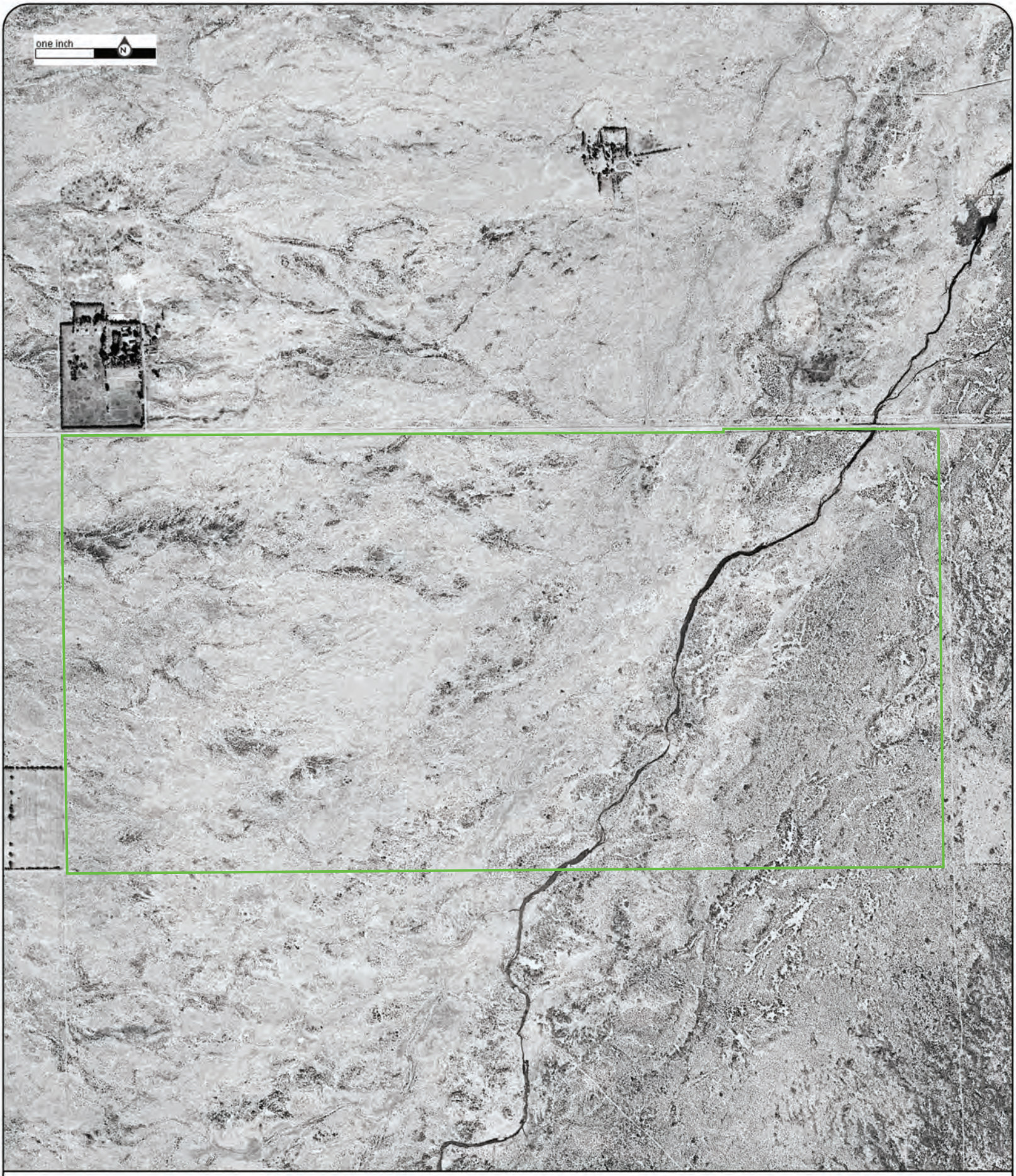


Year: 1953
Source: ASCS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

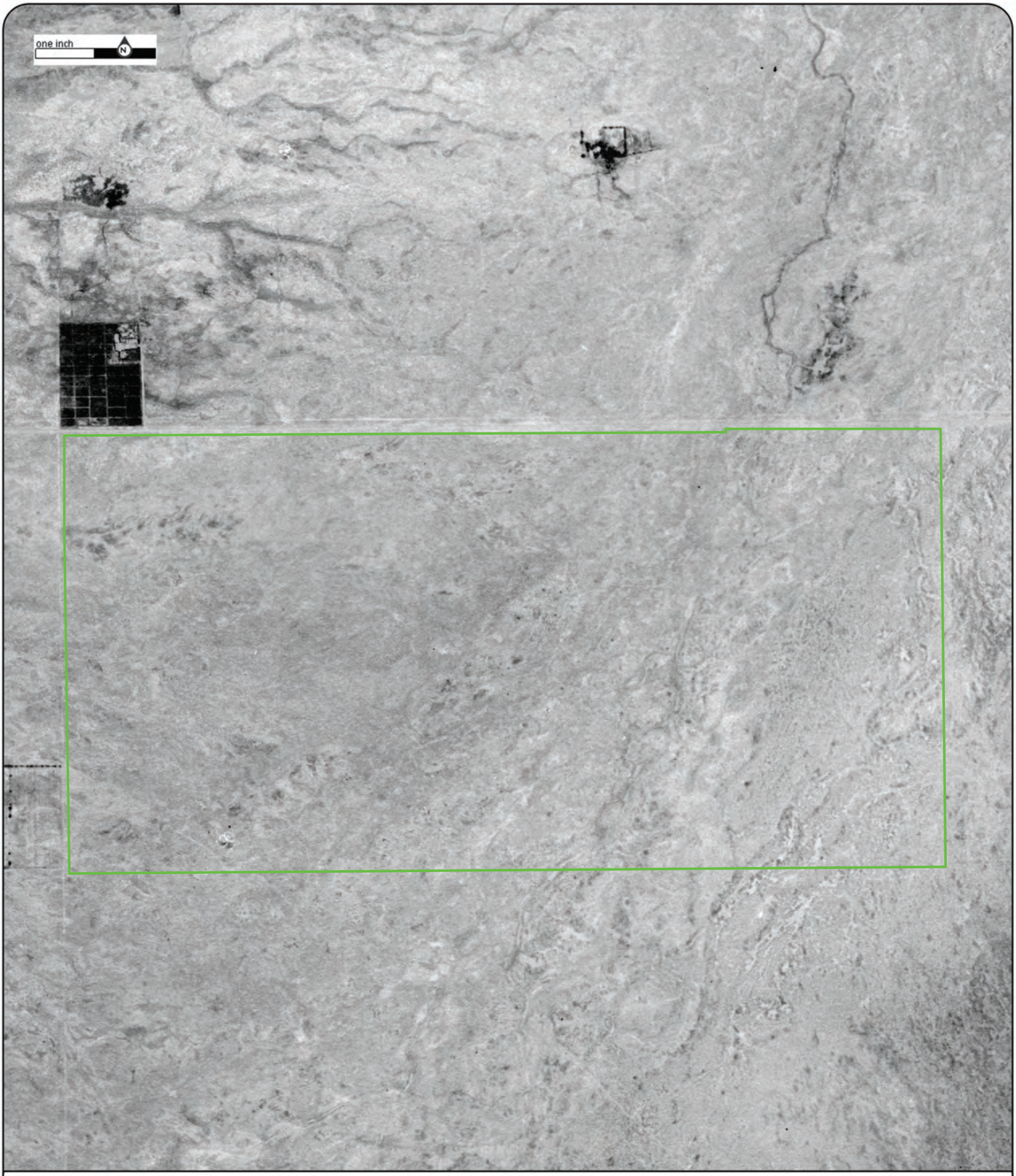


Year: 1948
Source: ASCS
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS



Year: 1928
Source: FAIRCHILD
Scale: 1" = 700'
Comment:

Address: W Avenue F and 20th Street West, Lancaster, CA
Approx Center: -118.157594,34.7441892

Order No: 22050500704

ERIS

TOPOGRAPHIC MAPS

Project Property:	Proposed Industrial Warehouse Facility W Avenue F and 20th Street West Lancaster CA None
Project No:	22-12841
Requested By:	Rincon Consultants, Inc.
Order No:	22050500704
Date Completed:	May 06, 2022

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We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2022	7.5
2018	7.5
2015	7.5
1974	7.5
1973	7.5
1958	7.5
1948	7.5
1947	7.5
1933	7.5
1930	7.5
1958	15
1956	15
1943	15

Topographic Map Symbology for the maps may be available in the following documents:

Pre-1947

Page 223 of 1918 Topographic Instructions

Page 130 of 1928 Topographic Instructions

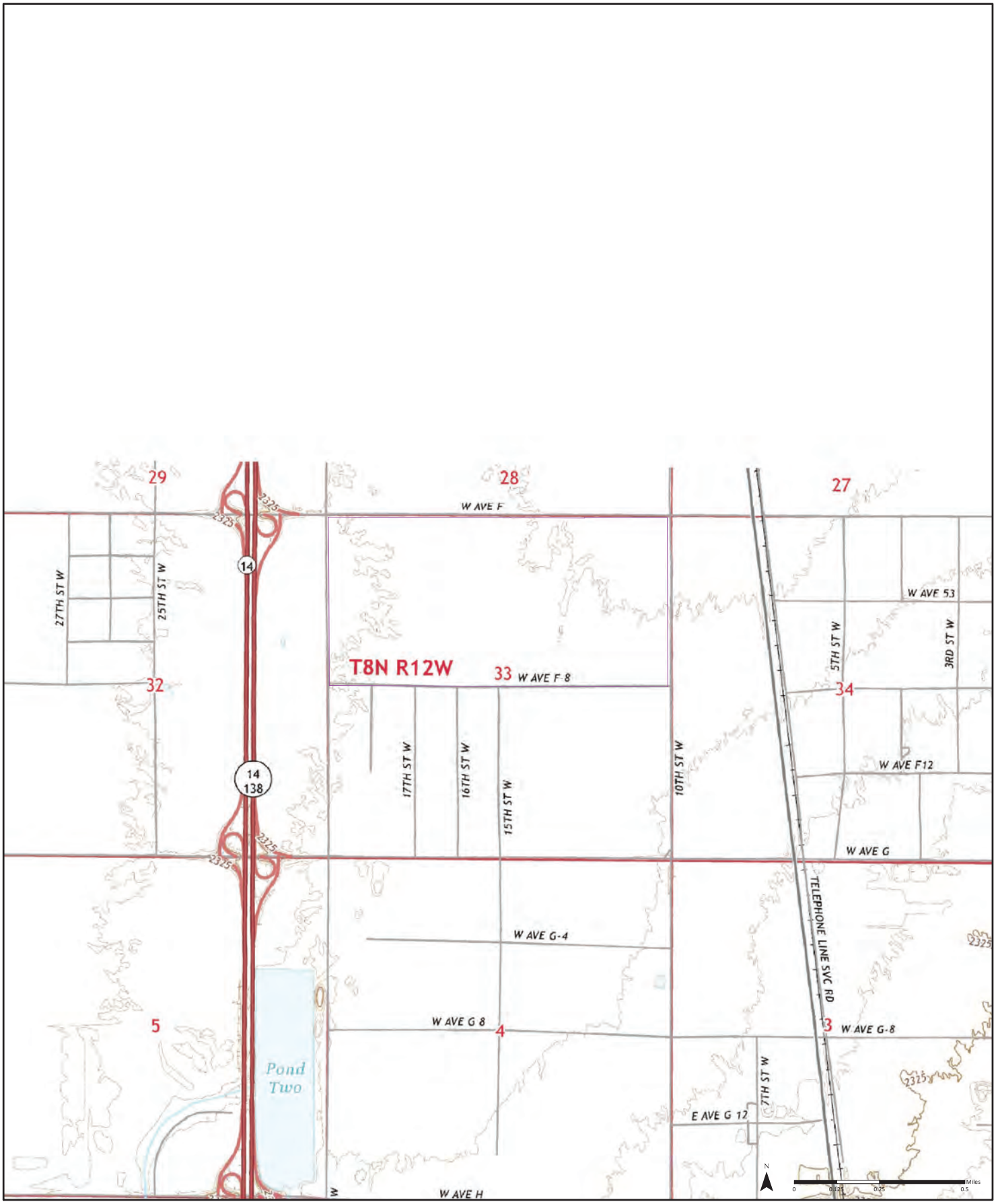
1947-2009

Topographic Map Symbols

2009-present

US Topo Map Symbols

Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.
No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Inc.(in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS', using Topographic Maps produced by the USGS. This maps contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

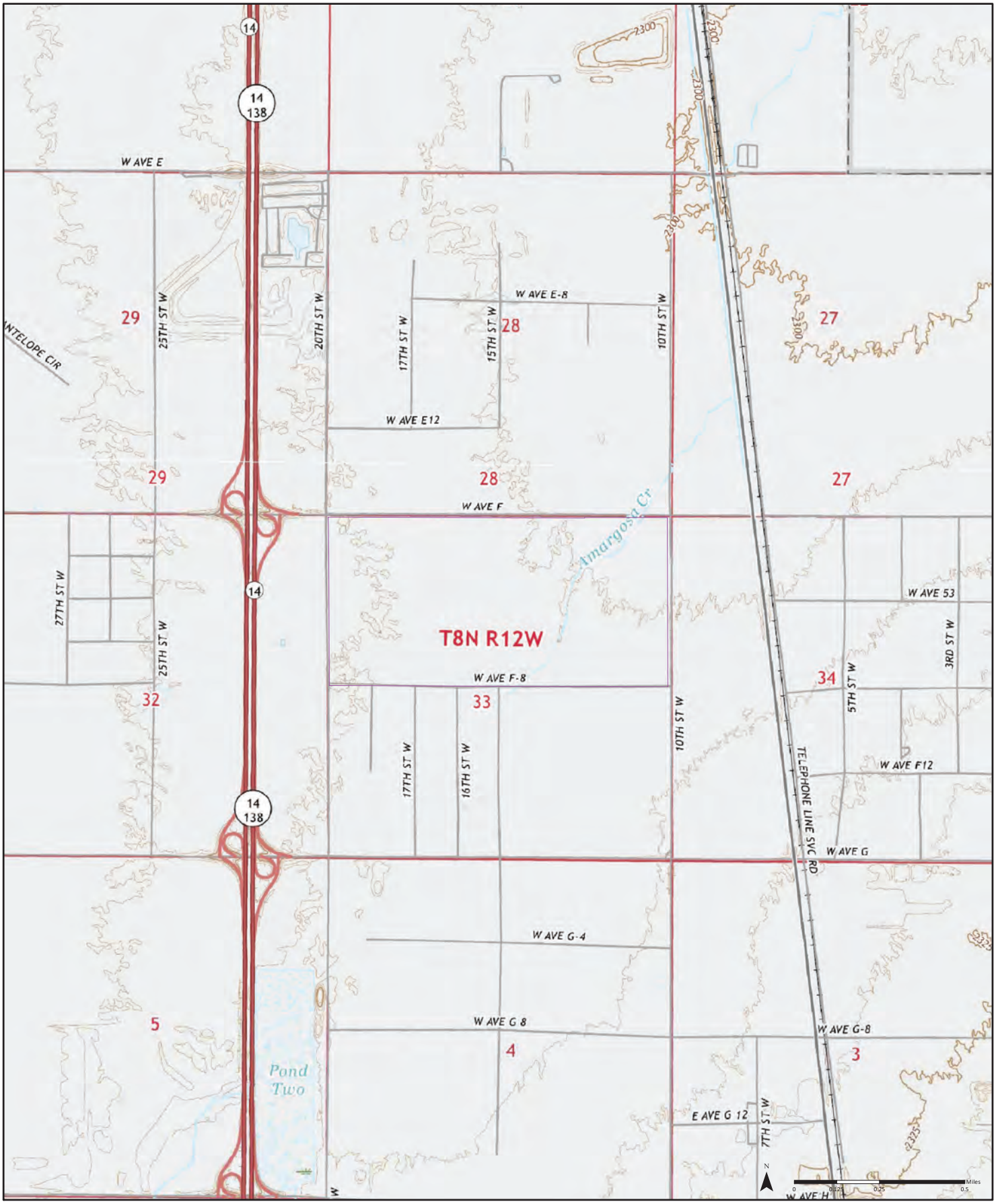


2022

Quadrangle(s): Lancaster West, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

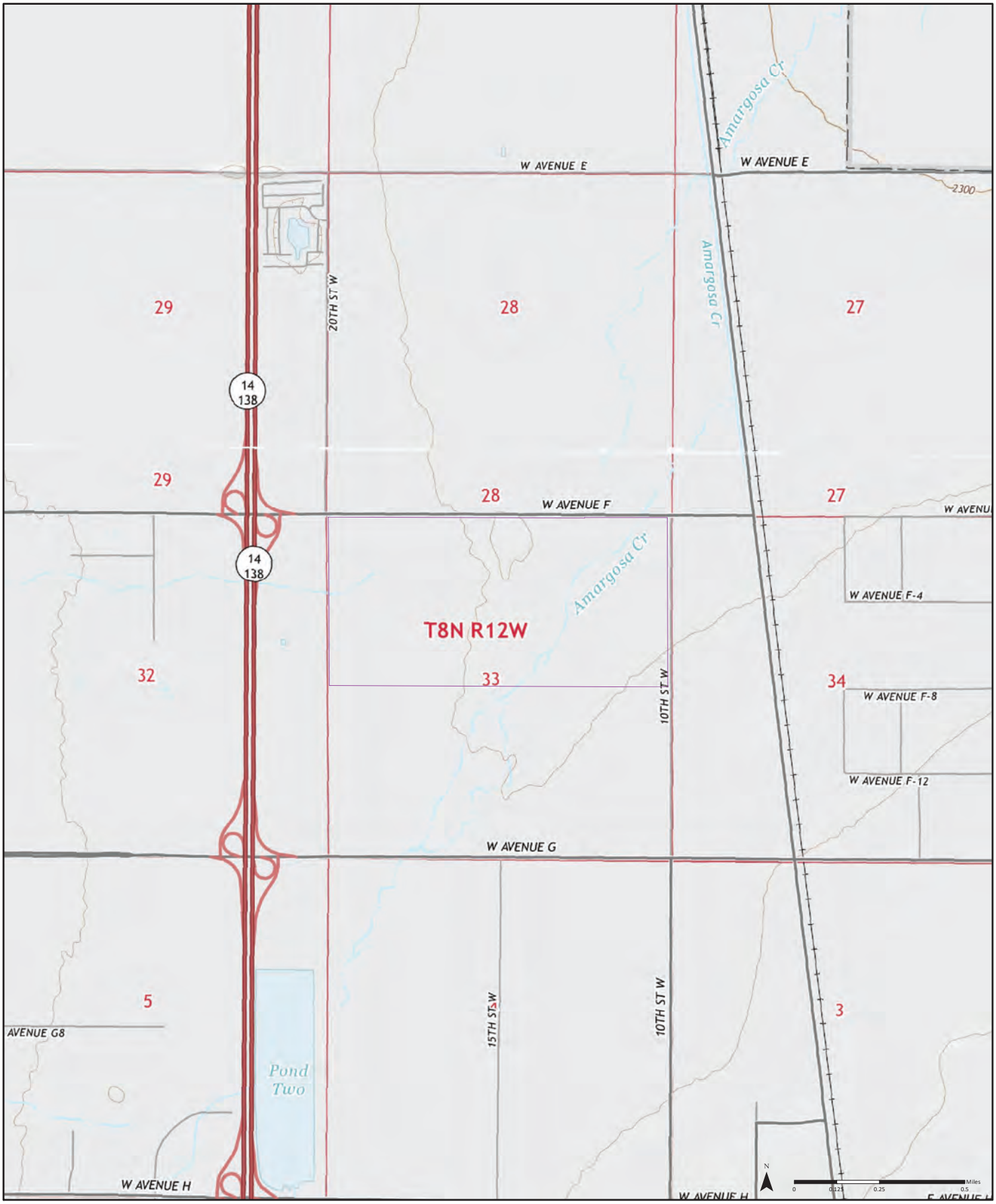


2018

Quadrangle(s): Rosamond, CA; Lancaster West, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

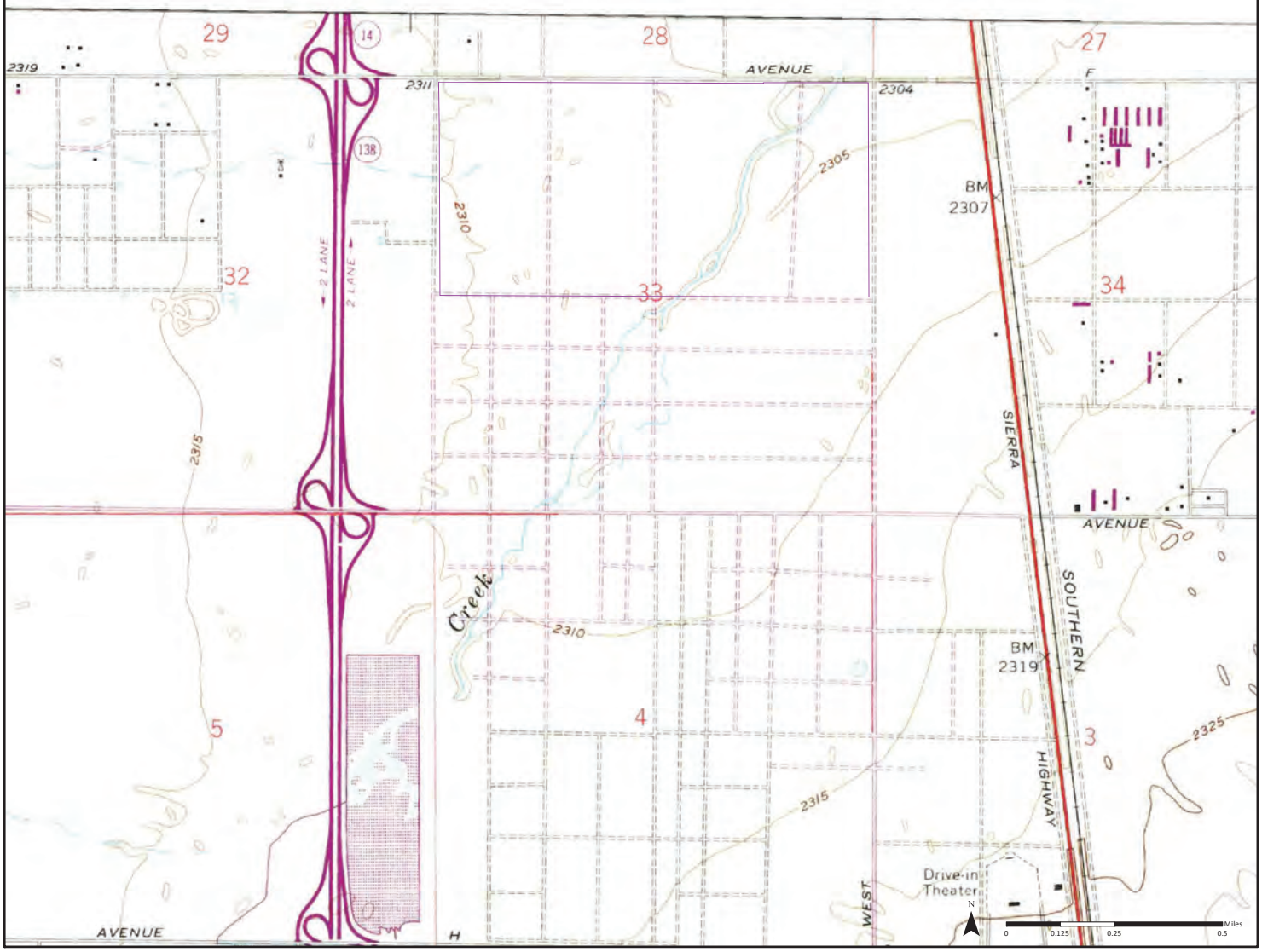


2015

Quadrangle(s): Lancaster West, CA; Rosamond, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map



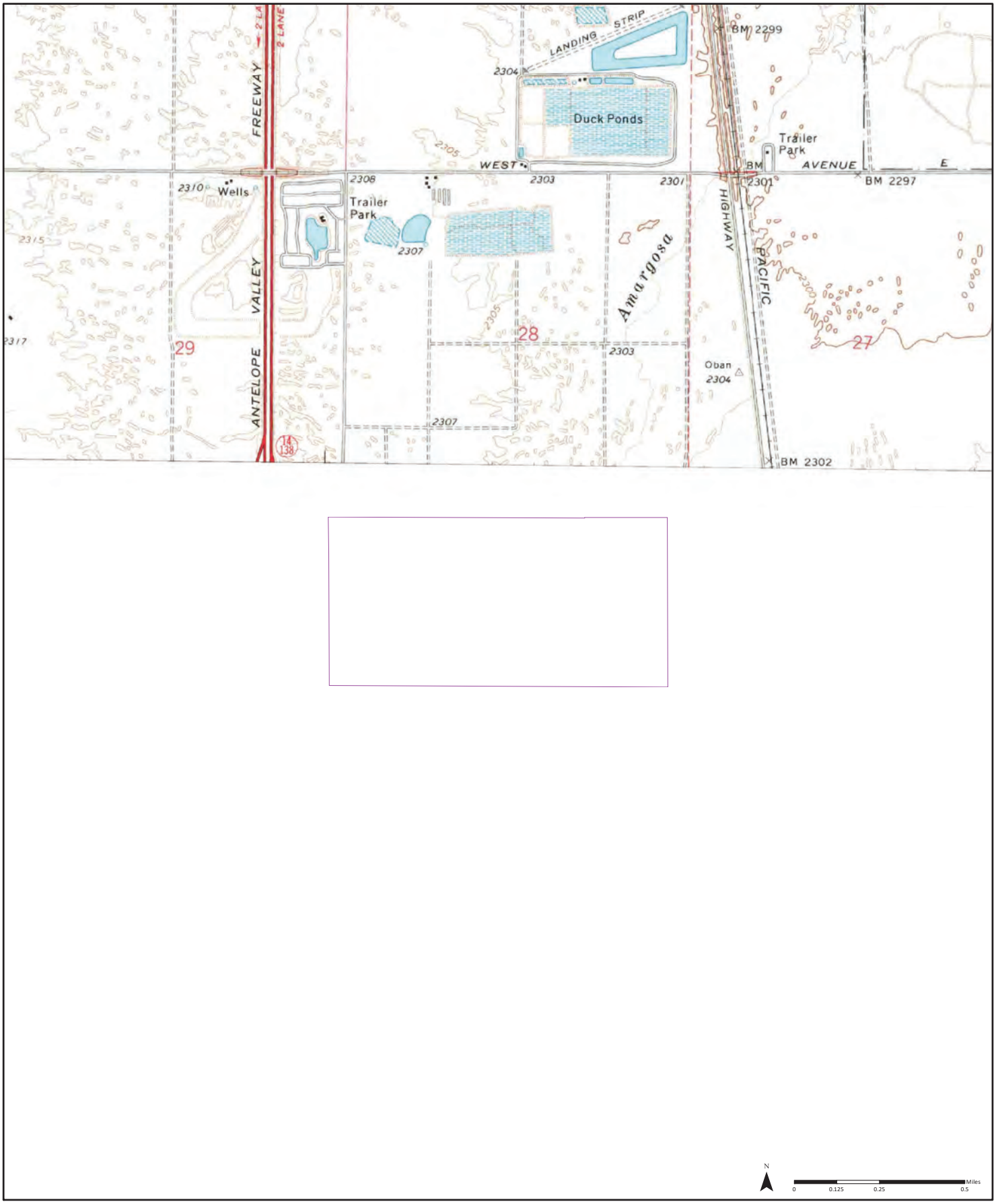
1974 [1]

Aerial Photo Year: 1974
Photo Revision Year: 1974

Quadrangle(s): Lancaster West, CA[1]

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

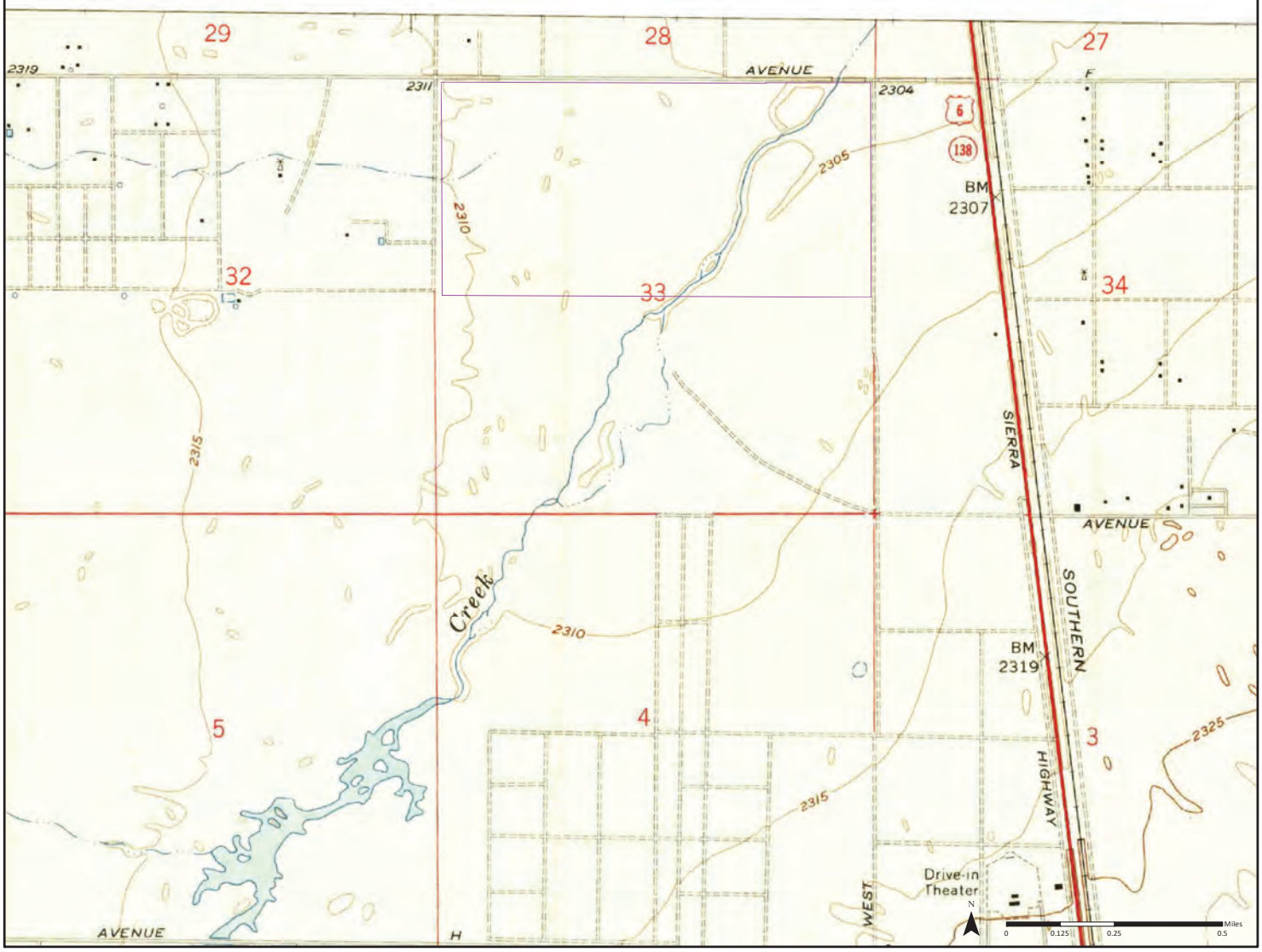


1973 (1)
Aerial Photo Year: 1972

Quadrangle(s): Rosamond, CA(1)

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

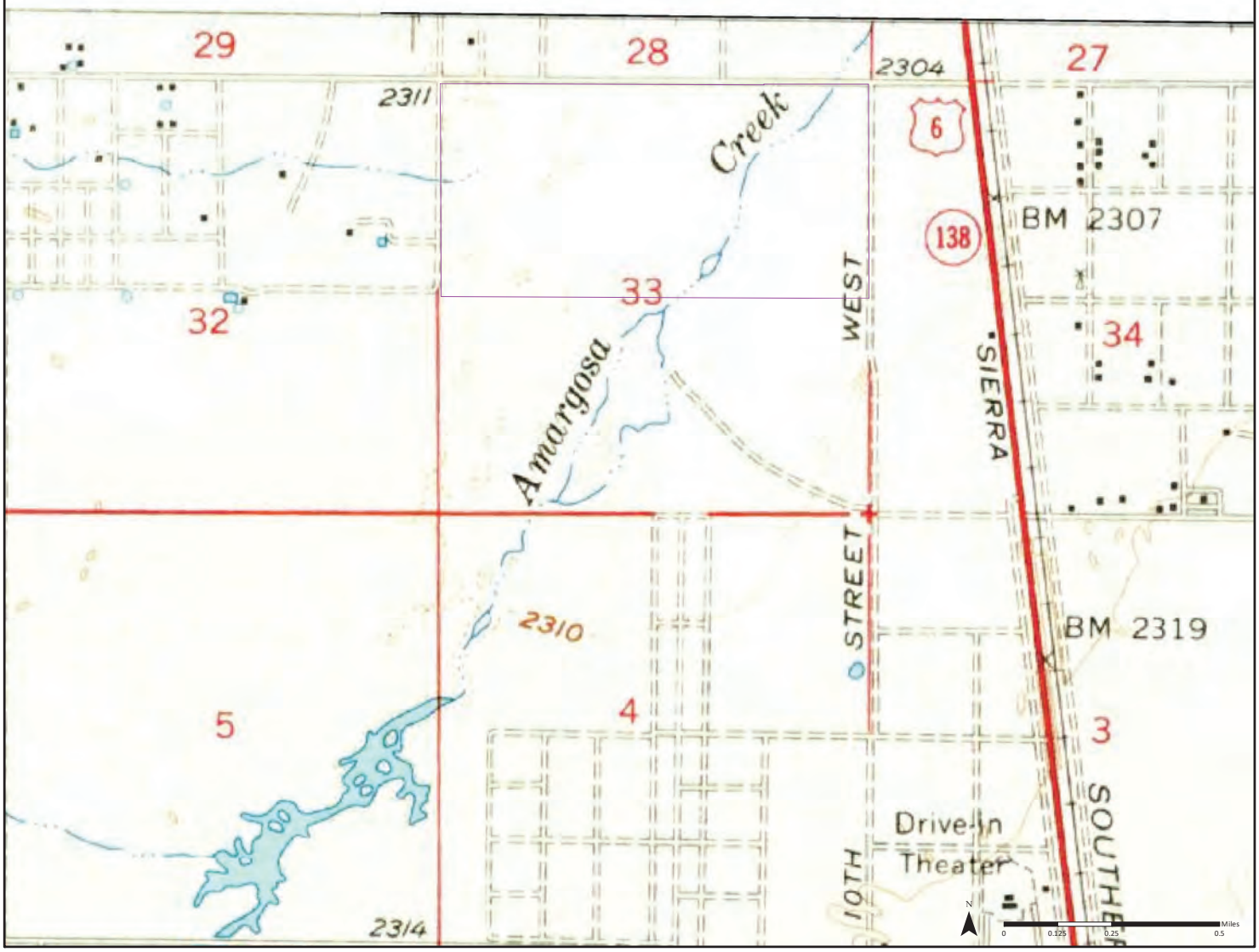


1958 [1] *Aerial Photo Year: 1956*

Quadrangle(s): Lancaster West, CA[1]

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

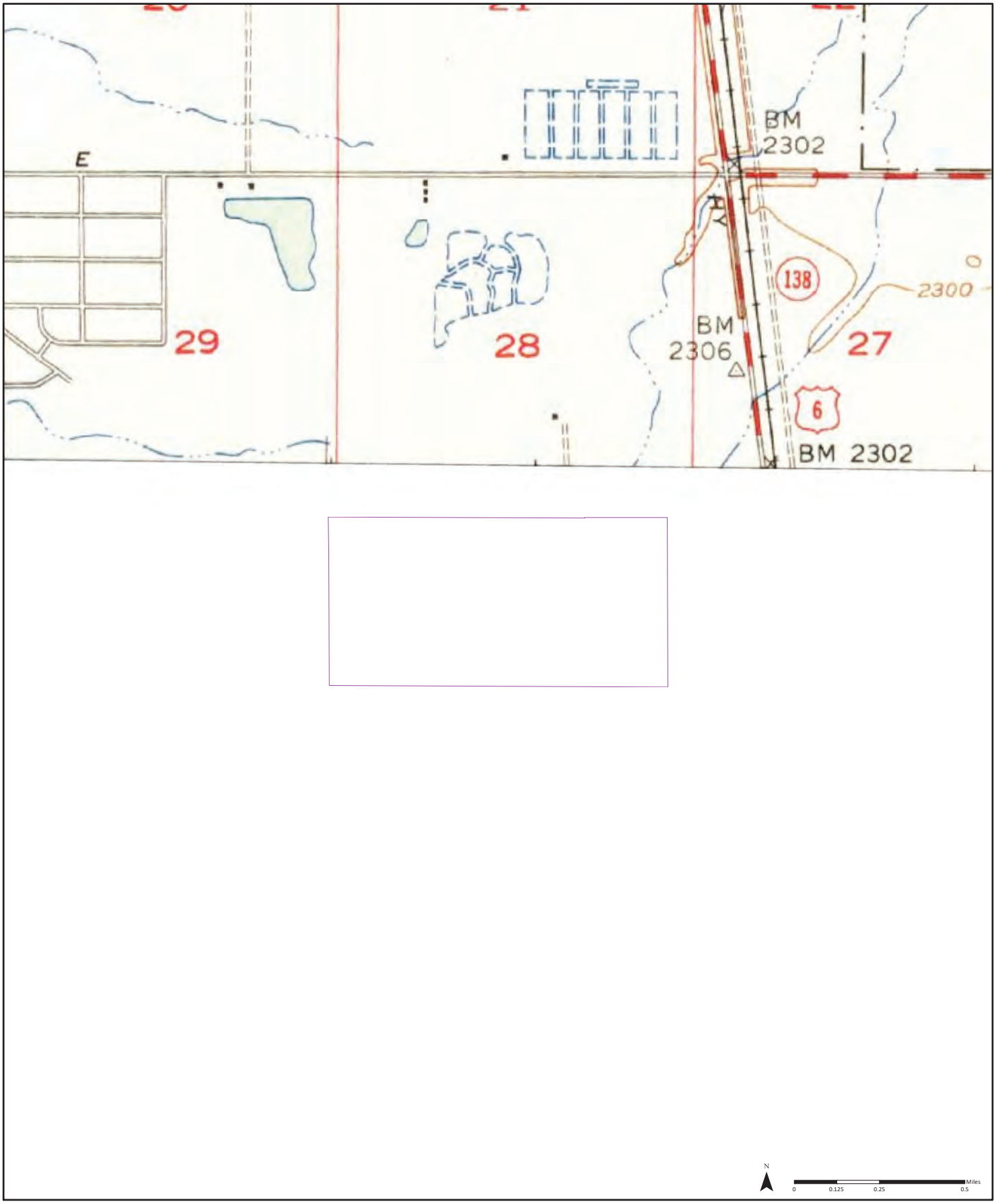


1958 (1)
Aerial Photo Year: 1956

Quadrangle(s): Lancaster, CA(1)

Order No. 22050500704

Source: USGS 15 Minute Topographic Map

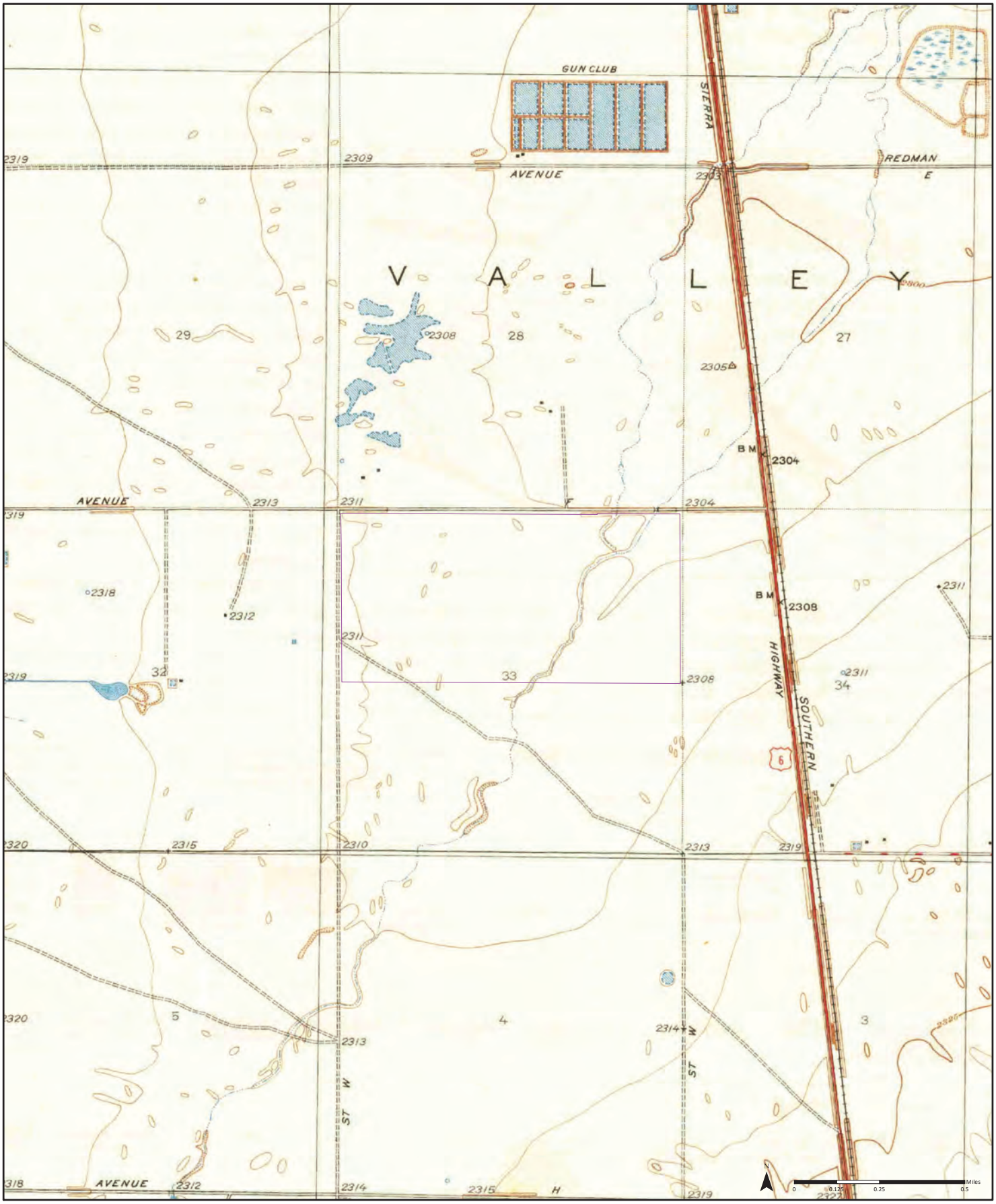


1956 (1)
Aerial Photo Year: 1952

Quadrangle(s): Rosamond, CA(1)

Order No. 22050500704

Source: USGS 15 Minute Topographic Map

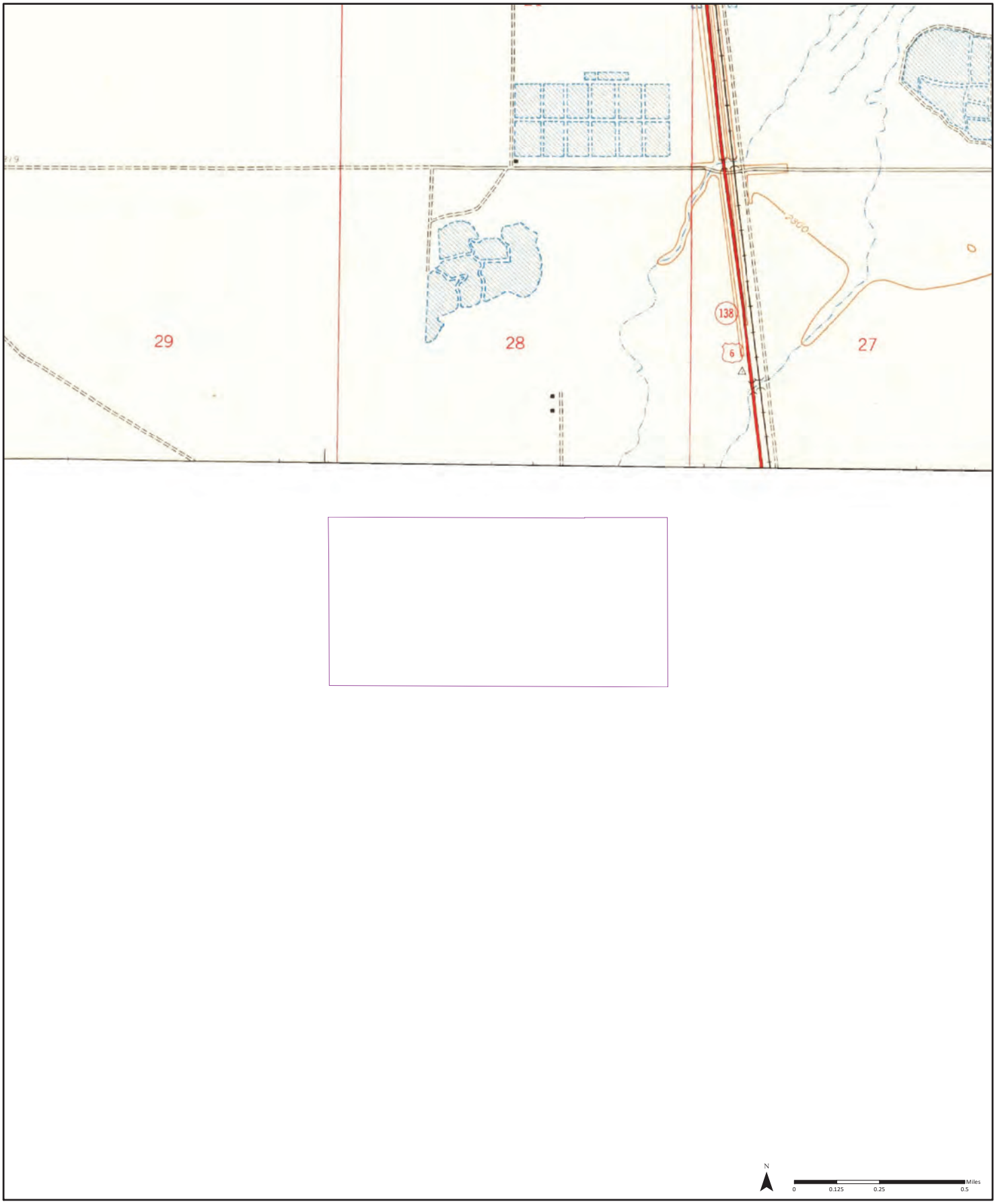


1948

Quadrangle(s): Oban, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

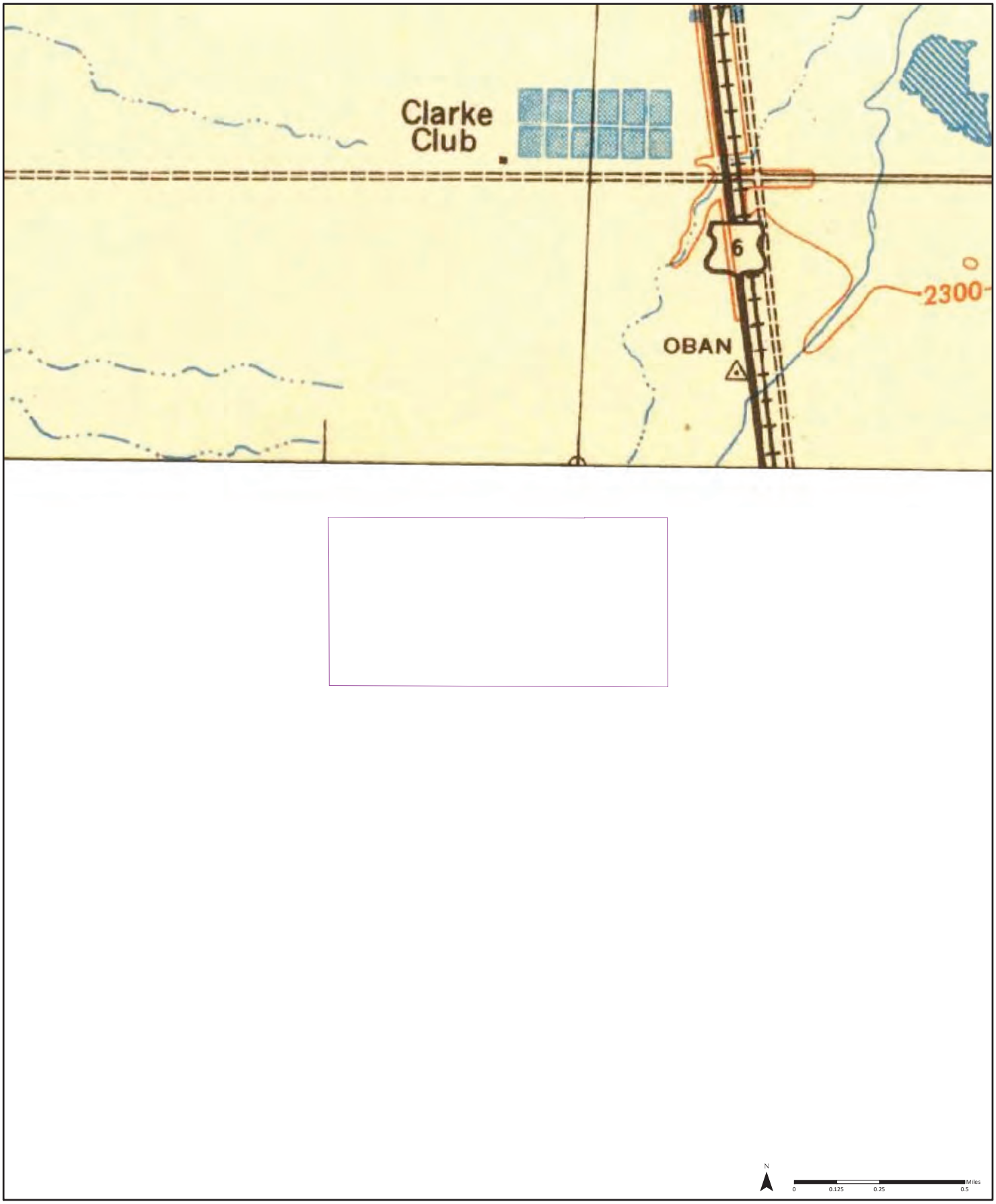


1947 (1)
Aerial Photo Year: 1946

Quadrangle(s): Rosamond, CA(1)

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

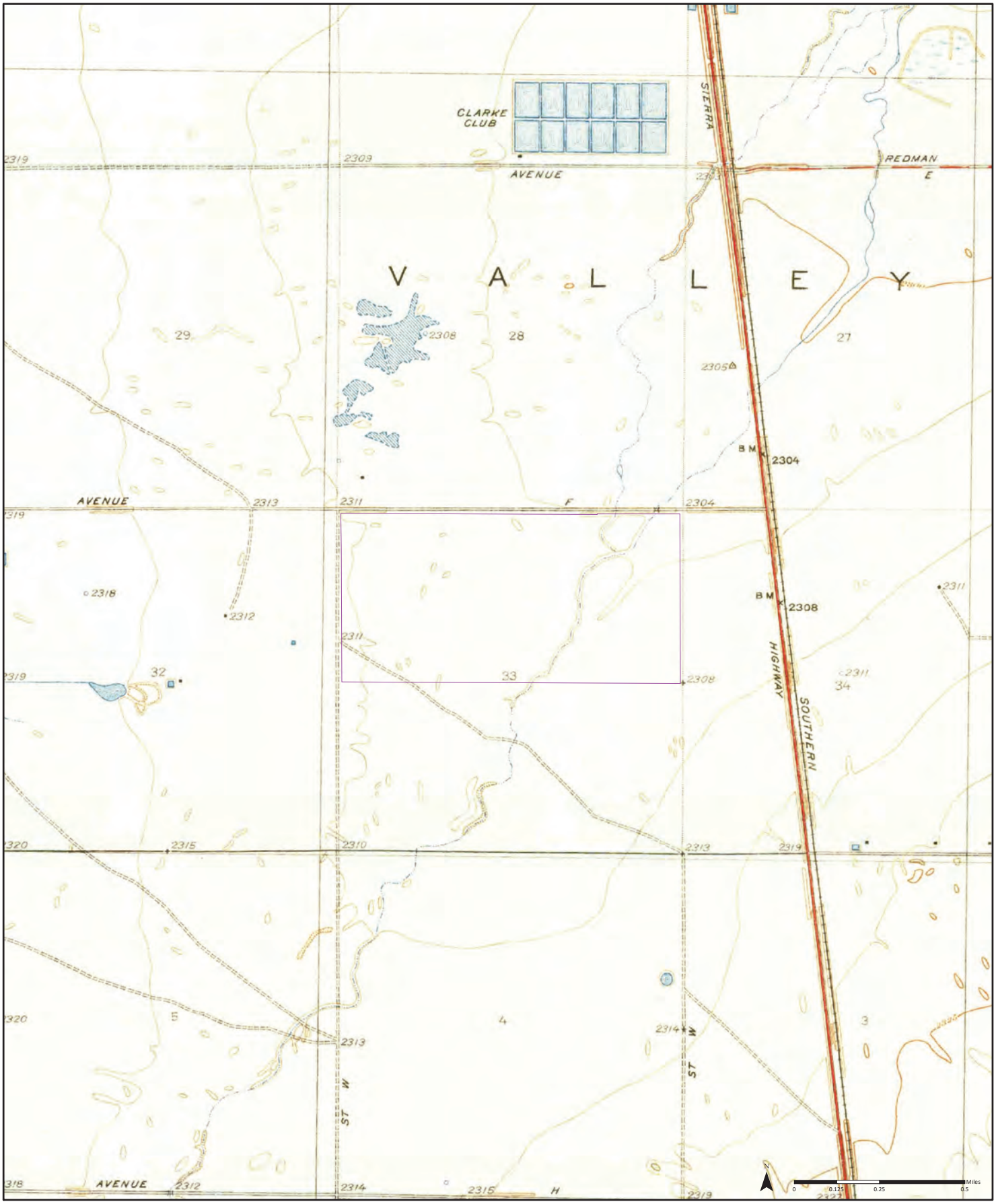


1943

Quadrangle(s): Rosamond, CA

Order No. 22050500704

Source: USGS 15 Minute Topographic Map

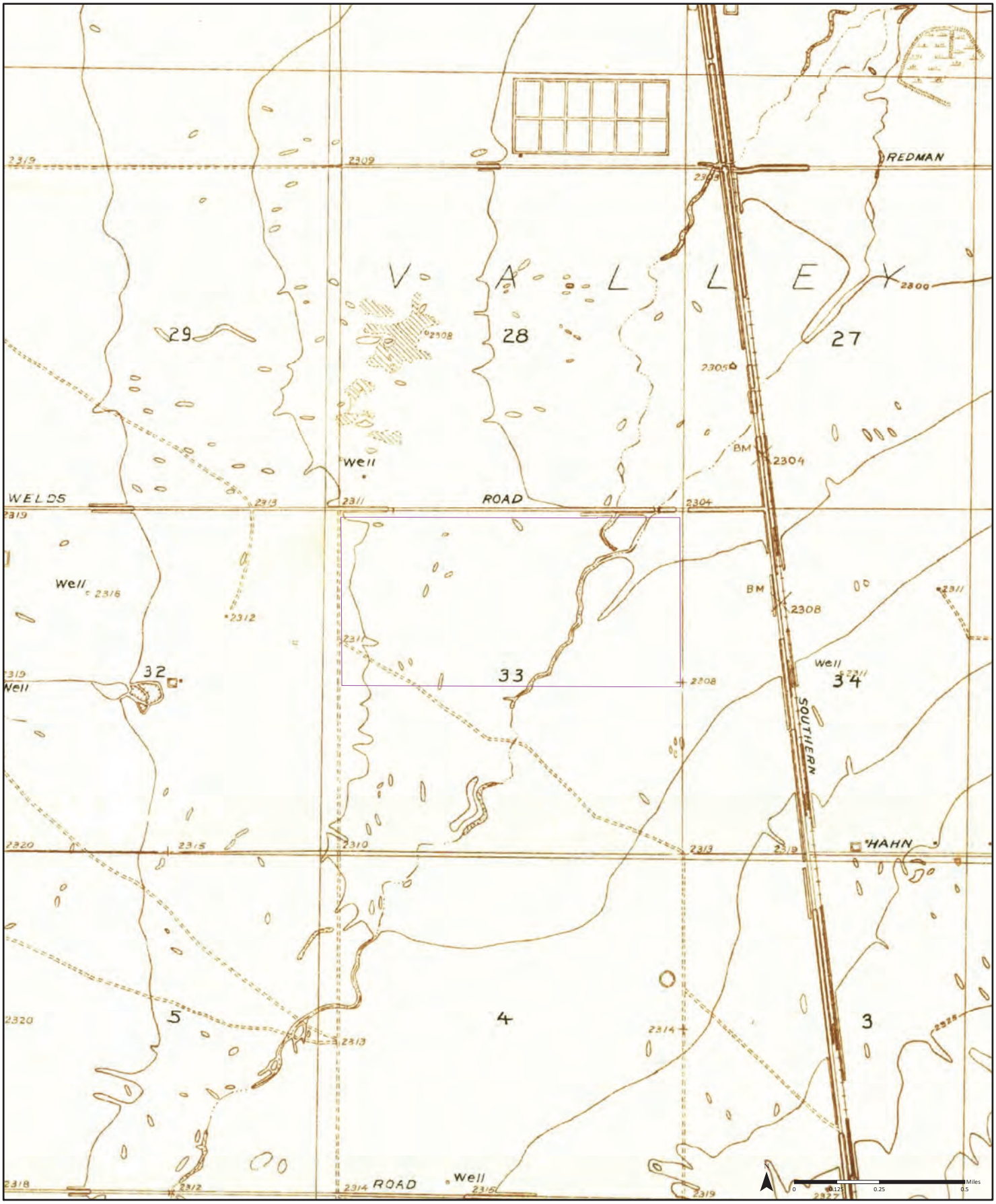


1933

Quadrangle(s): Oban, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map



1930

Quadrangle(s): Oban, CA

Order No. 22050500704

Source: USGS 7.5 Minute Topographic Map

FIRE INSURANCE MAPS

Project Property:	Proposed Industrial Warehouse Facility W Avenue F and 20th Street West Lancaster CA
Project No:	22-12841
Requested By:	Rincon Consultants, Inc.
Order No:	22050500704
Date Completed:	May 06, 2022

Please note that no information was found for your site or adjacent properties.

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CITY DIRECTORY

Project Property:	*Proposed Industrial Warehouse Facility* *W Avenue F and 20th Street West* *Lancaster,CA*
Project No:	*22-12841*
Requested By:	*Rincon Consultants, Inc.*
Order No:	*22050500704*
Date Completed:	*May 11, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

May 11, 2022
RE: CITY DIRECTORY RESEARCH
W Avenue F and 20th Street West
Lancaster,CA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
ALL of 20th Street W
500-2550 of W Avenue F
Search Notes:

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2013	DIGITAL BUSINESS DIRECTORY	
2009	DIGITAL BUSINESS DIRECTORY	
2006	HAINES	
2003	DIGITAL BUSINESS DIRECTORY	
2000	DIGITAL BUSINESS DIRECTORY	
1995	HAINES	
1991-92	HAINES	
1987	HAINES	
1981	HAINES	
1975	HAINES	

2020 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2020 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

805	**BENT RIM ALLOY WHEEL REPAIR**	*AUTOMOBILE HUB CAPS*
825	**BRINK'S INC**	*BUSINESS SERVICES NEC*
825	**BRINK'S INC**	*ARMORED CAR SERVICE*
1033	**WEST COAST BUILDERS**	*BUILDING CONTRACTORS*

2016 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2016 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

825 **BRINK'S INC**...*ARMORED CAR SERVICE*
907 **NANCY NAIL**...*EYELASHES-ARTIFICIAL*
2548 **ENEDINA MARTINEZ**...*RESIDENTIAL*

2013 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2013 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

805 **AUTO GLASS 2000 INC**...*AUTOMOBILE GLASS-SERVICE & INSTALLATION*
813 **TALCA MACHINING**...*MACHINE SHOPS (MFRS)*
825 **BRINK'S INC**...*ARMORED CAR SERVICE*

2009 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2009 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

813	**TALCA MACHINING**	*MACHINE SHOPS*
813	**TALCA MACHINING**	*INDUSTRIAL MCHY NEC*
907	**NANCY NAIL**	*BEAUTY SHOPS*
907	**NANCY NAIL**	*MANICURING*
1033	**WEST COAST BUILDERS**	*GEN REMOD 1-FAM HOUSE*
1915	**WASHINGTON MUTUAL**	*NATIONAL COML BANKS*
1915	**WASHINGTON MUTUAL**	*BANKS*

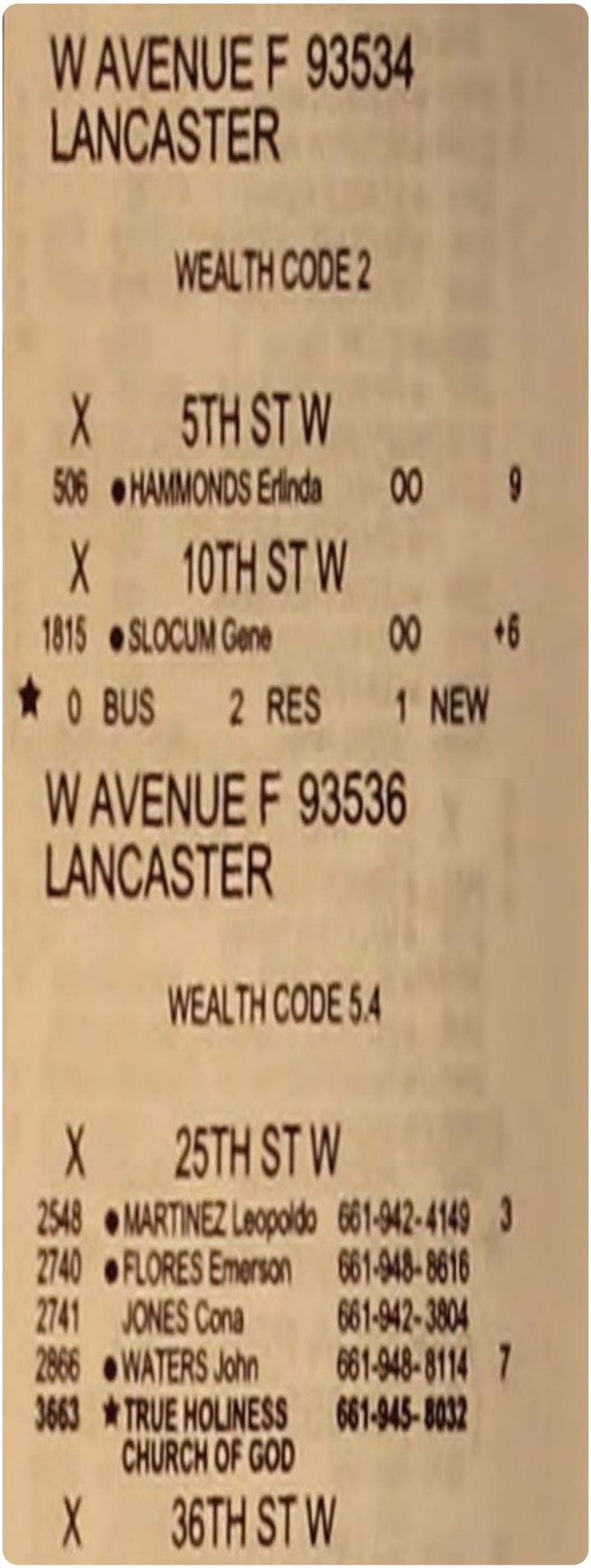
2006 20TH STREET W

SOURCE: HAINES

STREET NOT LISTED

2006 W AVENUE F

SOURCE: HAINES



W AVENUE F 93534
LANCASTER

WEALTH CODE 2

X 5TH ST W

506 ● HAMMONDS Erlinda 00 9

X 10TH ST W

1815 ● SLOCUM Gene 00 +6

★ 0 BUS 2 RES 1 NEW

W AVENUE F 93536
LANCASTER

WEALTH CODE 5.4

X 25TH ST W

2548 ● MARTINEZ Leopoldo 661-942-4149 3
2740 ● FLORES Emerson 661-948-8616
2741 JONES Cona 661-942-3804
2866 ● WATERS John 661-948-8114 7
3663 ★ TRUE HOLINESS CHURCH OF GOD 661-945-8032

X 36TH ST W

2003 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2003 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

1815 **MARY HARTZFELD**...*RESIDENTIAL*

2000 20TH STREET W

SOURCE: DIGITAL BUSINESS DIRECTORY

NO LISTING FOUND

2000 W AVENUE F

SOURCE: DIGITAL BUSINESS DIRECTORY

1815 **HARTZFELD MARY**...*RESIDENTIAL*

1995 20TH STREET W

SOURCE: HAINES

STREET NOT LISTED

1995 W AVENUE F

SOURCE: HAINES

AVENUE F WEST 93536
LANCASTER

1815 HARTZFELD Mary 940-9428
2740 • KATRAOURAS John 00

1991-92 20TH STREET W

SOURCE: HAINES

STREET NOT LISTED

1991-92 W AVENUE F

SOURCE: HAINES

RANGE NOT LISTED

1987 **20TH STREET W**

SOURCE: HAINES

STREET NOT LISTED

1987 **W AVENUE F**

SOURCE: HAINES

RANGE NOT LISTED

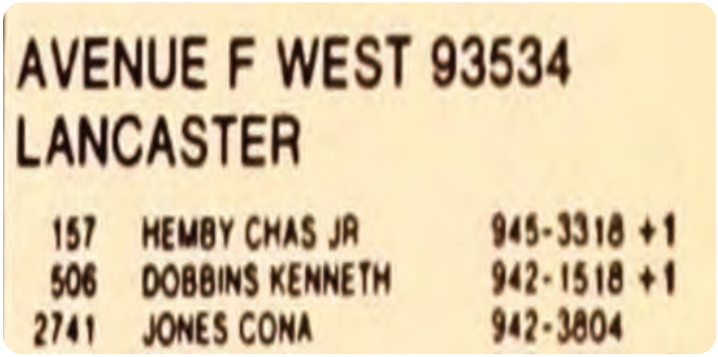
1981 20TH STREET W

SOURCE: HAINES

STREET NOT LISTED

1981 W AVENUE F

SOURCE: HAINES



AVENUE F WEST 93534
LANCASTER

157	HEMBY CHAS JR	945-3318 +1
506	DOBBINS KENNETH	942-1518 +1
2741	JONES CONA	942-3804

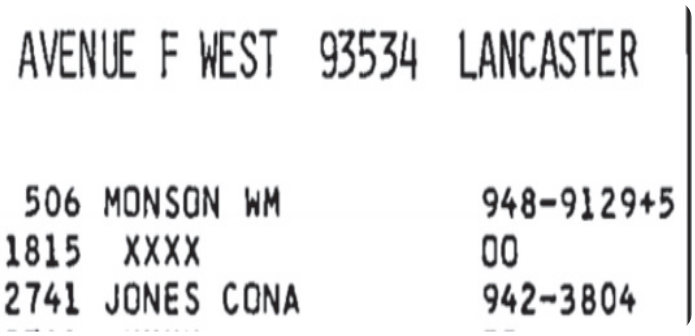
1975 20TH STREET W

SOURCE: HAINES

STREET NOT LISTED

1975 W AVENUE F

SOURCE: HAINES



APPENDIX F
Noise Data

Site Number: NM-1			
Recorded By: Darshan Shivaiah, Winnie Woo			
Job Number: 192691			
Date: 11/01/23			
Time: 10:17 a.m.			
Location: Along the sidewalk of Division Street, at intersection of an unpaved road			
Source of Ambient Noise: Traffic noise along Division Street			
Source of Peak Noise: Trucks passing by			
Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
68.0	39.0	87.6	103.4

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	

Weather Data			
Est.	Duration: 10 minutes		Sky: Sunny
	Note: dBA Offset = 0.02		Sensor Height (ft): 5 ft
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)	Barometer Pressure (inches)
	3 mph	66	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		01/11/2023 10:17:51
End Time:		01/11/2023 10:27:51
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.00

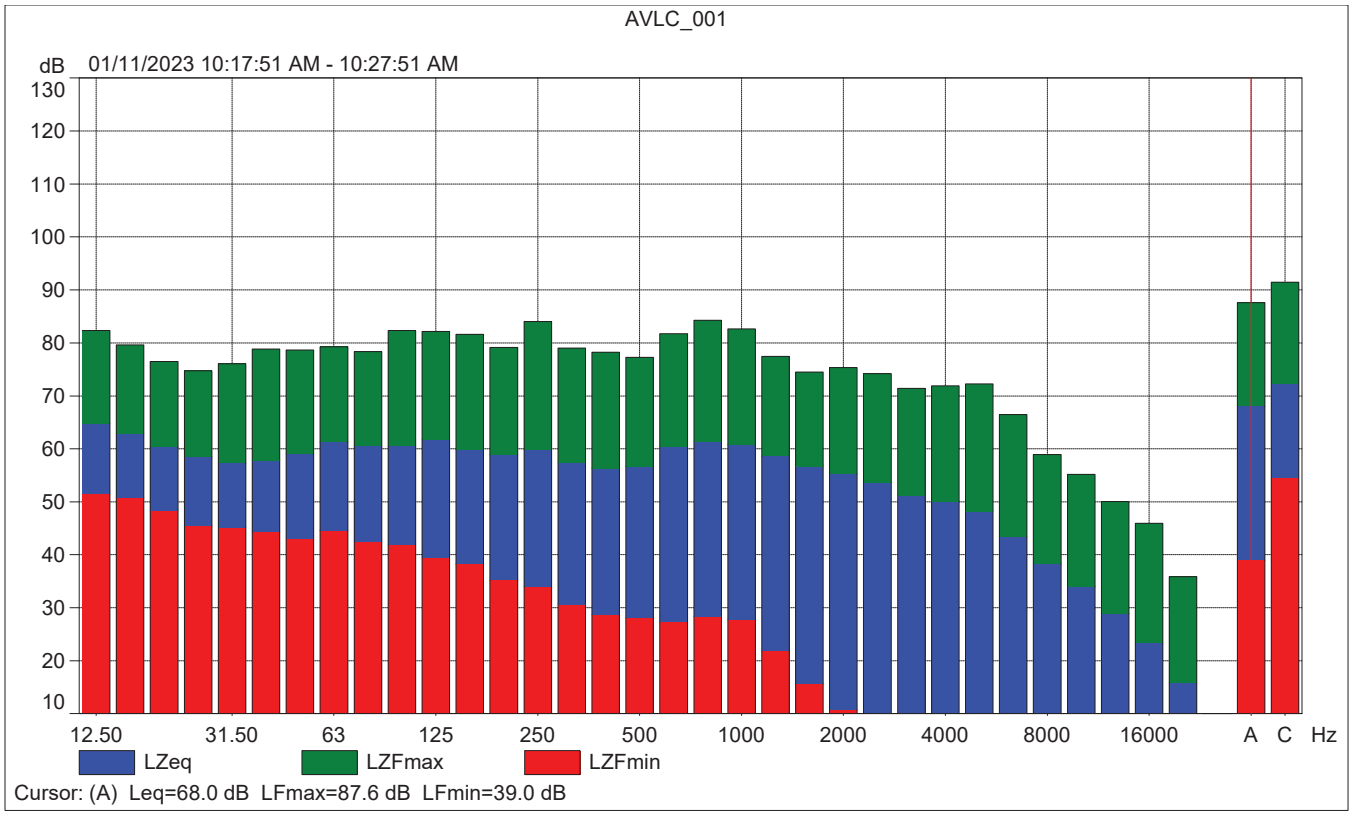
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

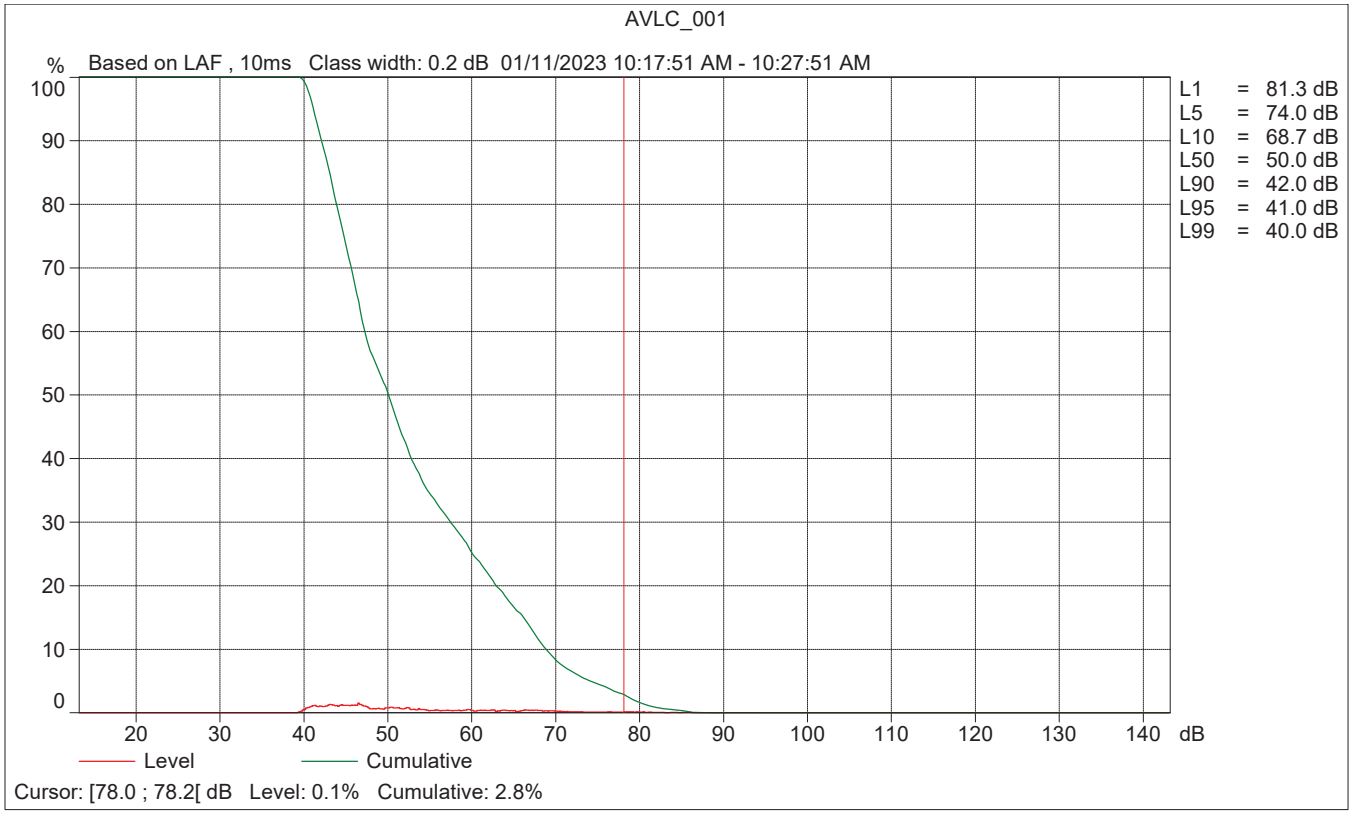
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

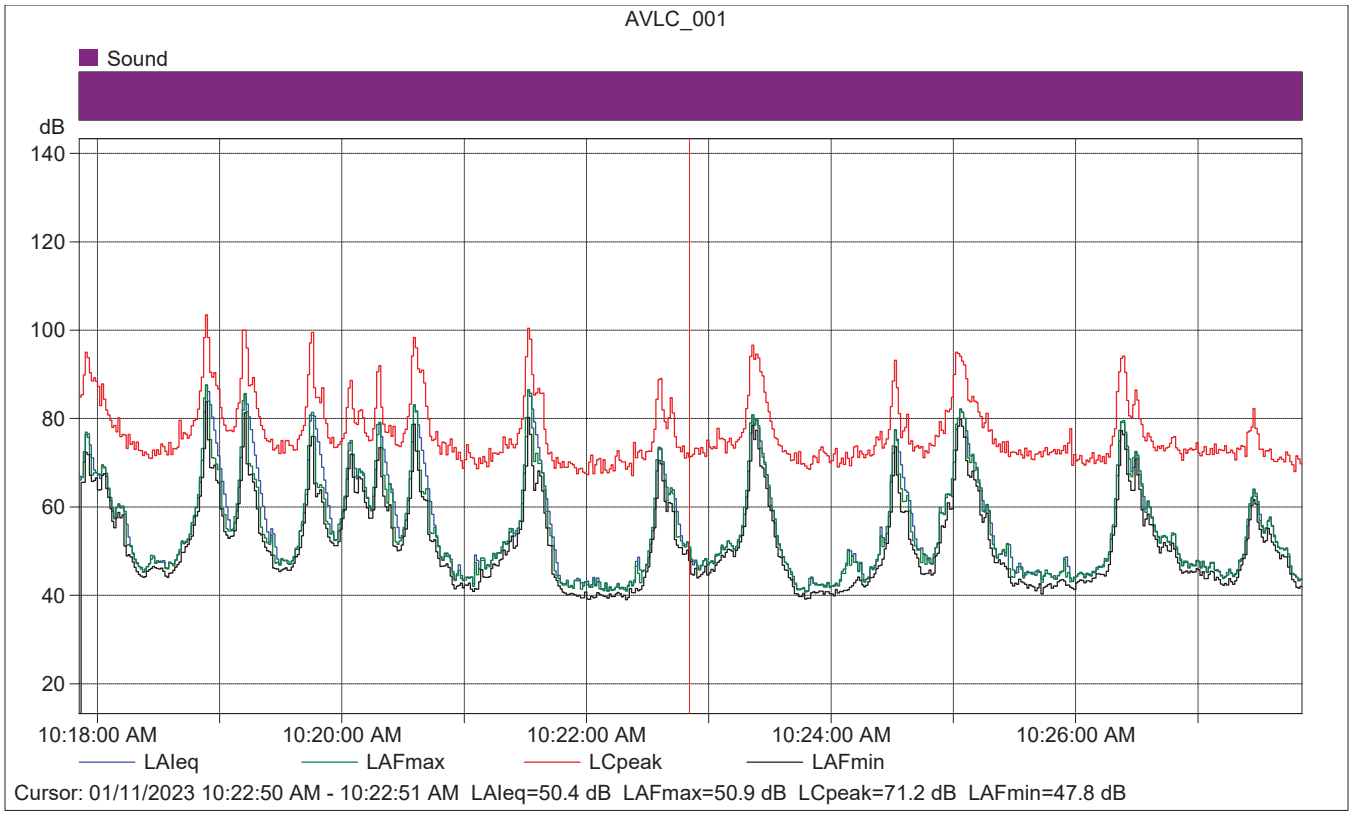
Calibration Time:		01/11/2023 10:12:27
Calibration Type:		External reference
Sensitivity:		44.2486479878426 mV/Pa

AVLC_001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	68.0	87.6	39.0
Time	10:17:51 AM	10:27:51 AM	0:10:00				
Date	01/11/2023	01/11/2023					

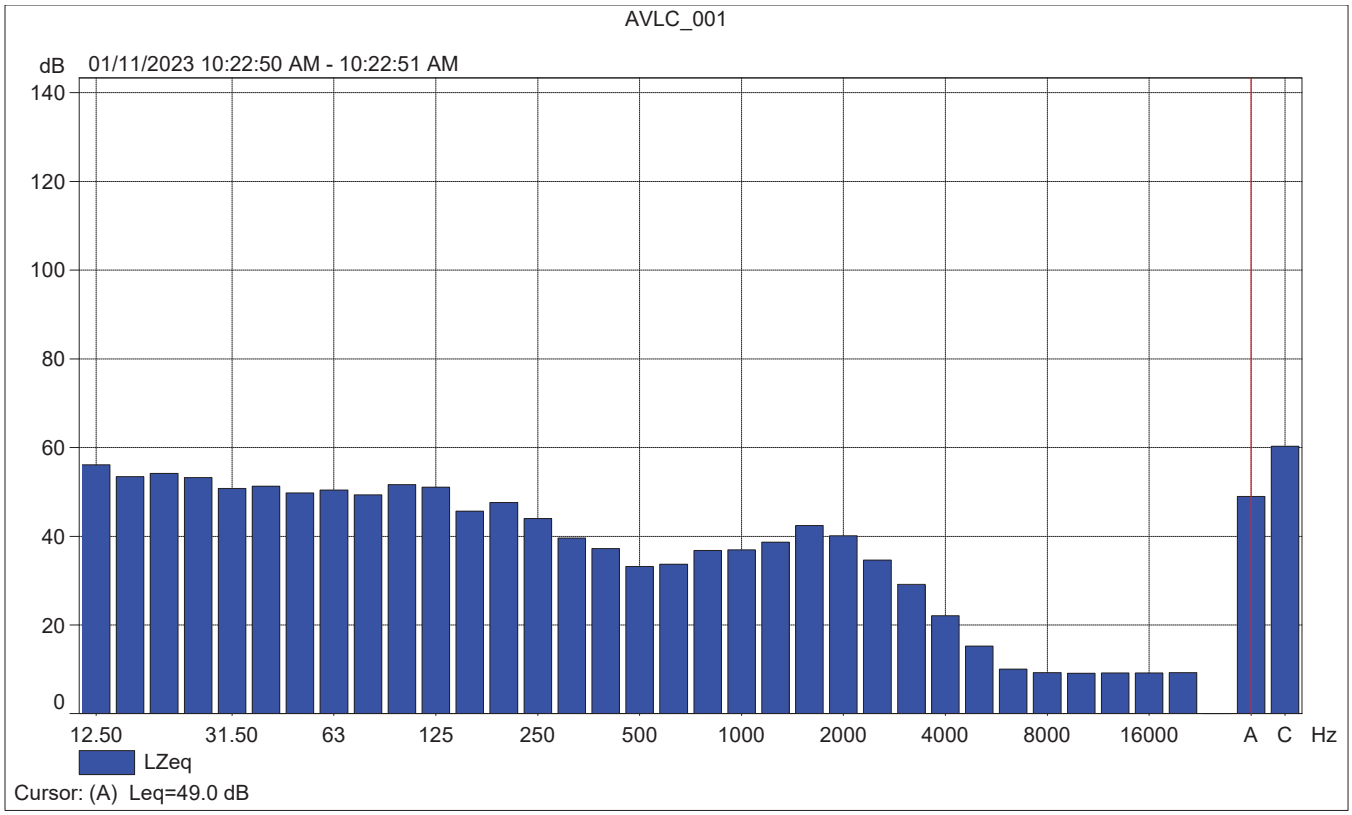

AVLC_001
dB
01/11/2023 10:17:51 AM - 10:27:51 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=68.0 dB LFmax=87.6 dB LFmin=39.0 dB

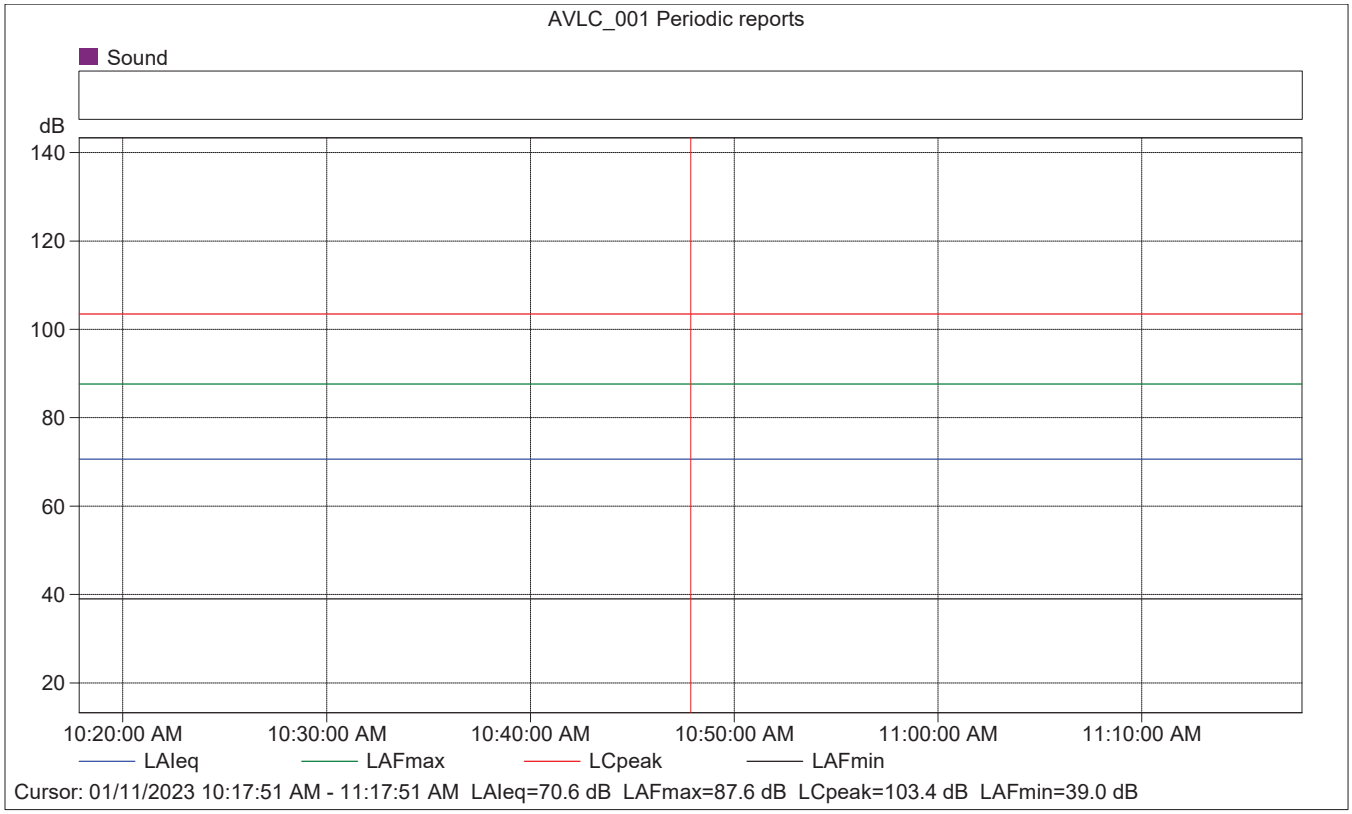

AVLC_001
%
Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:17:51 AM - 10:27:51 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 81.3 dB
L5 = 74.0 dB
L10 = 68.7 dB
L50 = 50.0 dB
L90 = 42.0 dB
L95 = 41.0 dB
L99 = 40.0 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 2.8%



AVLC_001

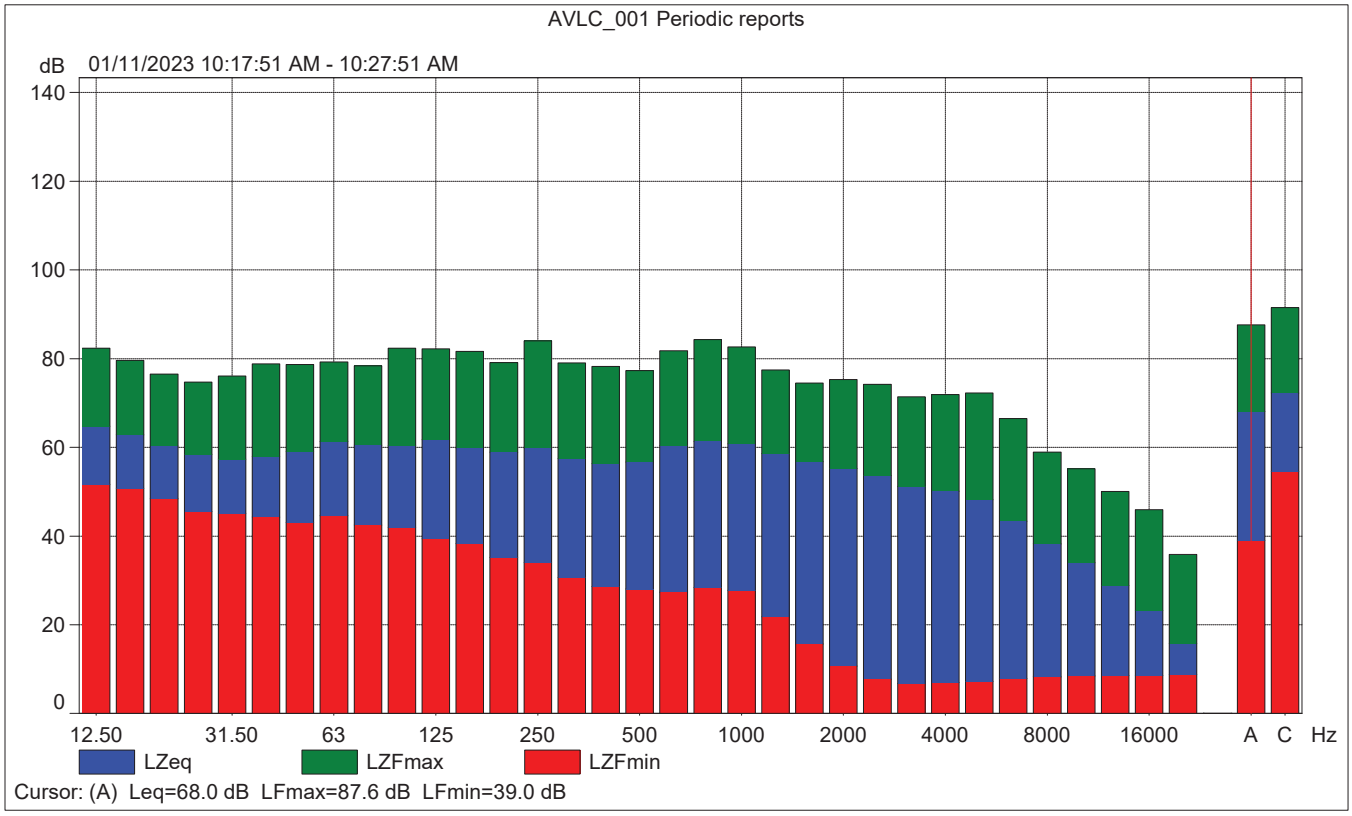
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.4	50.9	47.8
Time	10:22:50 AM	0:00:01			
Date	01/11/2023				

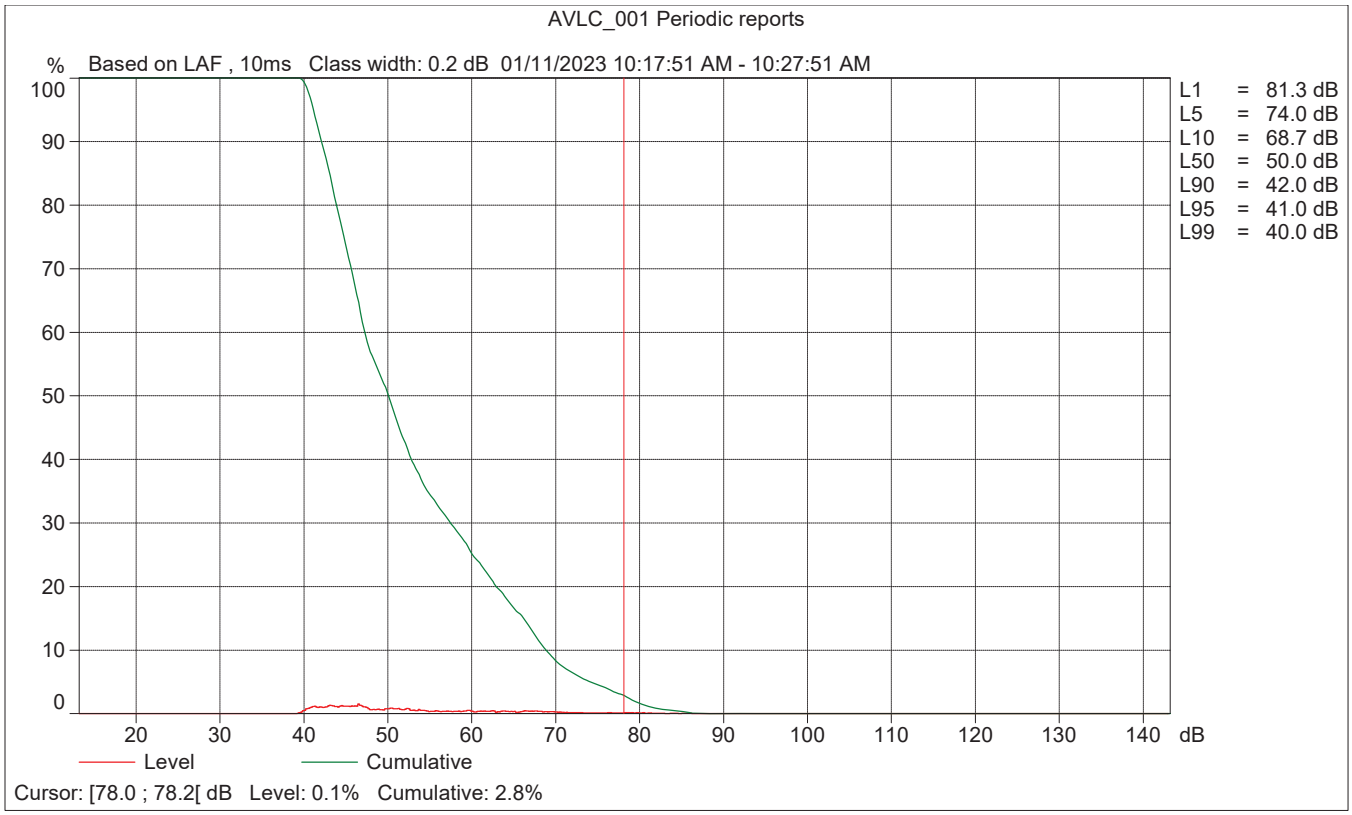

AVLC_001
dB
01/11/2023 10:22:50 AM - 10:22:51 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=49.0 dB


AVLC_001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/11/2023 10:17:51 AM - 11:17:51 AM LAIeq=70.6 dB LAFmax=87.6 dB LCpeak=103.4 dB LAFmin=39.0 dB

AVLC_001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	70.6	87.6	39.0
Time	10:17:51 AM	0:10:00				
Date	01/11/2023					




AVLC_001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:17:51 AM - 10:27:51 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 81.3 dB
L5 = 74.0 dB
L10 = 68.7 dB
L50 = 50.0 dB
L90 = 42.0 dB
L95 = 41.0 dB
L99 = 40.0 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 2.8%

Site Number: NM-2	
Recorded By: Darshan Shivaiah, Winnie Woo	
Job Number: 192691	
Date: 11/01/23	
Time: 10:36 a.m.	
Location: On the southeast corner of Division Street and East Avenue G intersection	
Source of Ambient Noise: Traffic noise along Division Street and East Avenue G	
Source of Peak Noise: Trucks passing by	

Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
68.1	37.9	90.9	110.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	

Weather Data			
Est.	Duration: 10 minutes		Sky: Sunny
	Note: dBA Offset = 0.02		Sensor Height (ft): 5 ft
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)	Barometer Pressure (inches)
	3 mph	66	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		01/11/2023 10:36:04
End Time:		01/11/2023 10:46:04
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.00

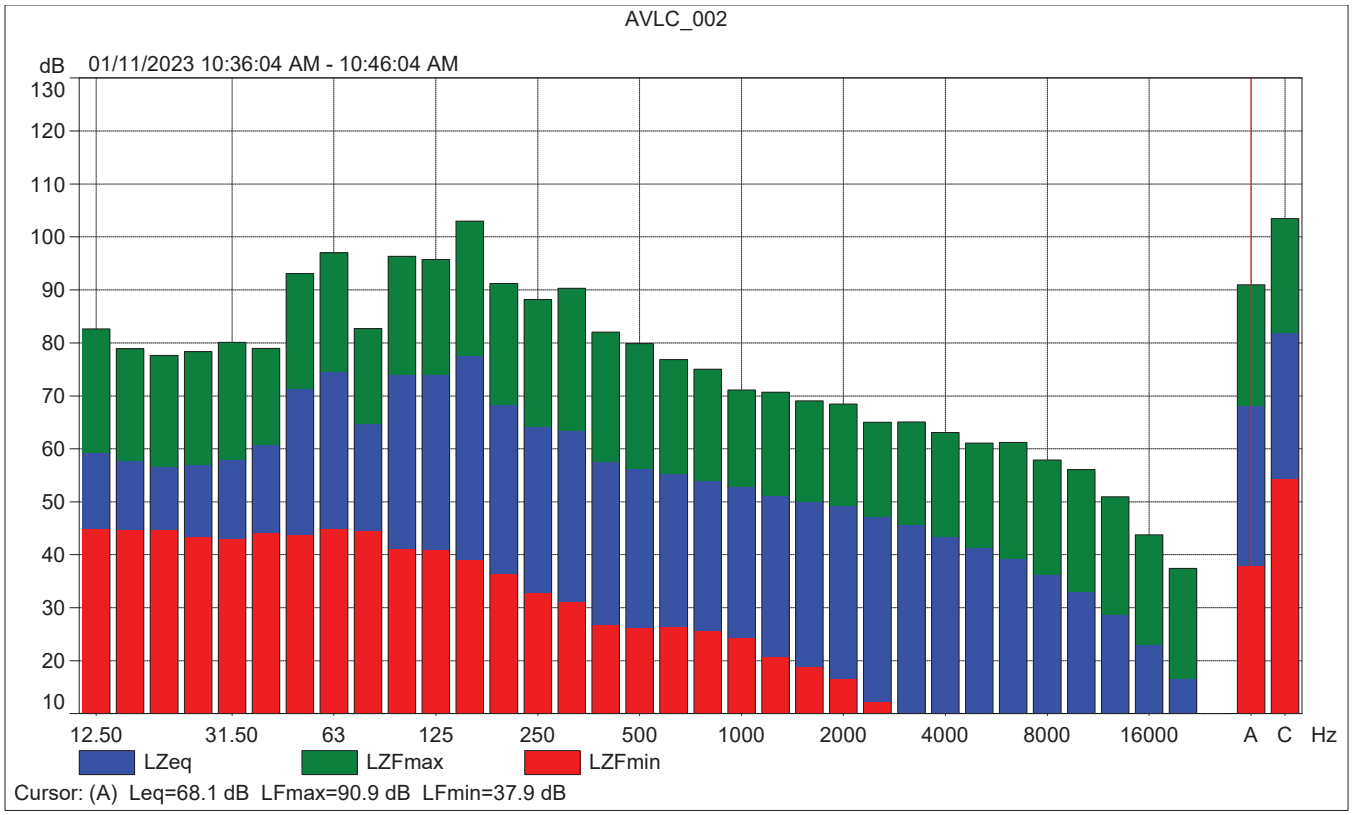
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

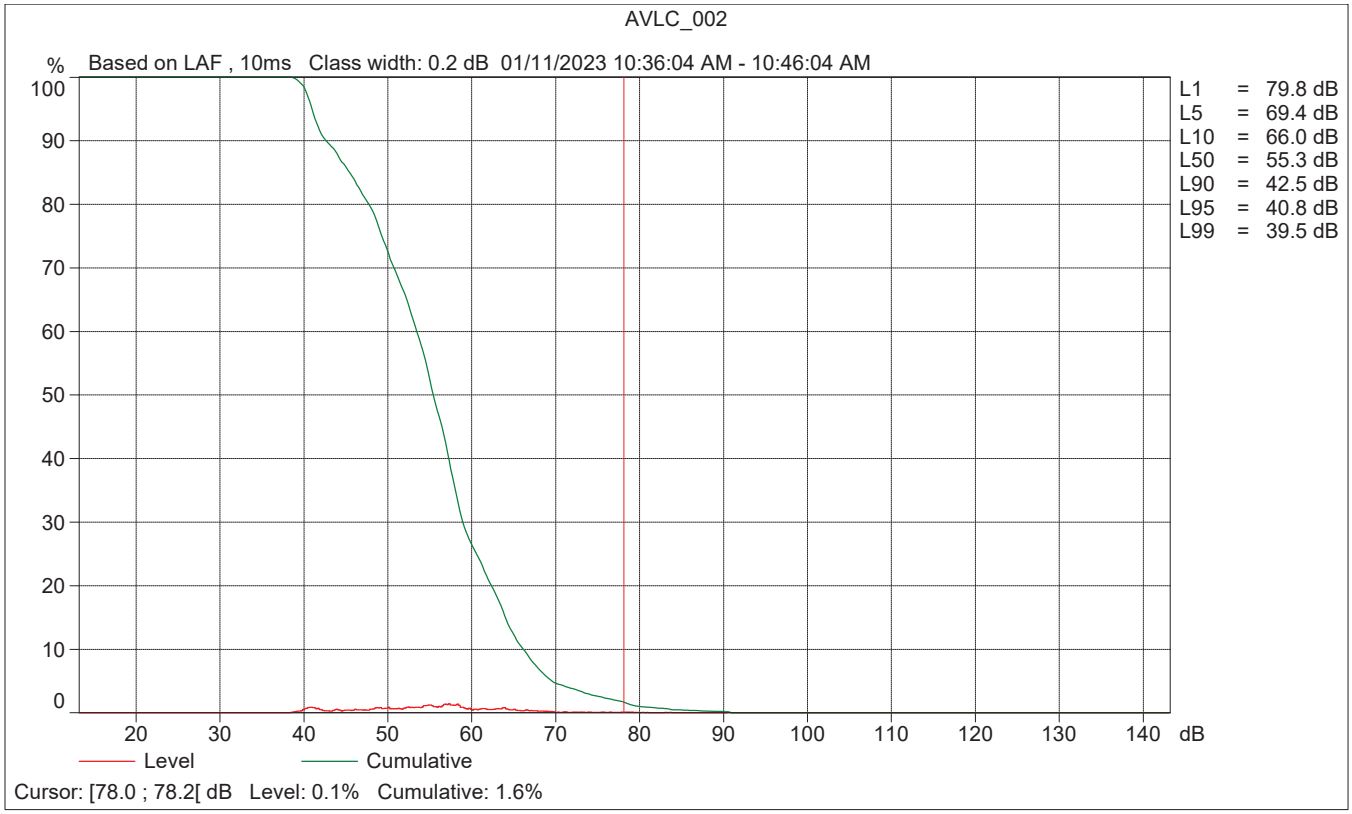
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

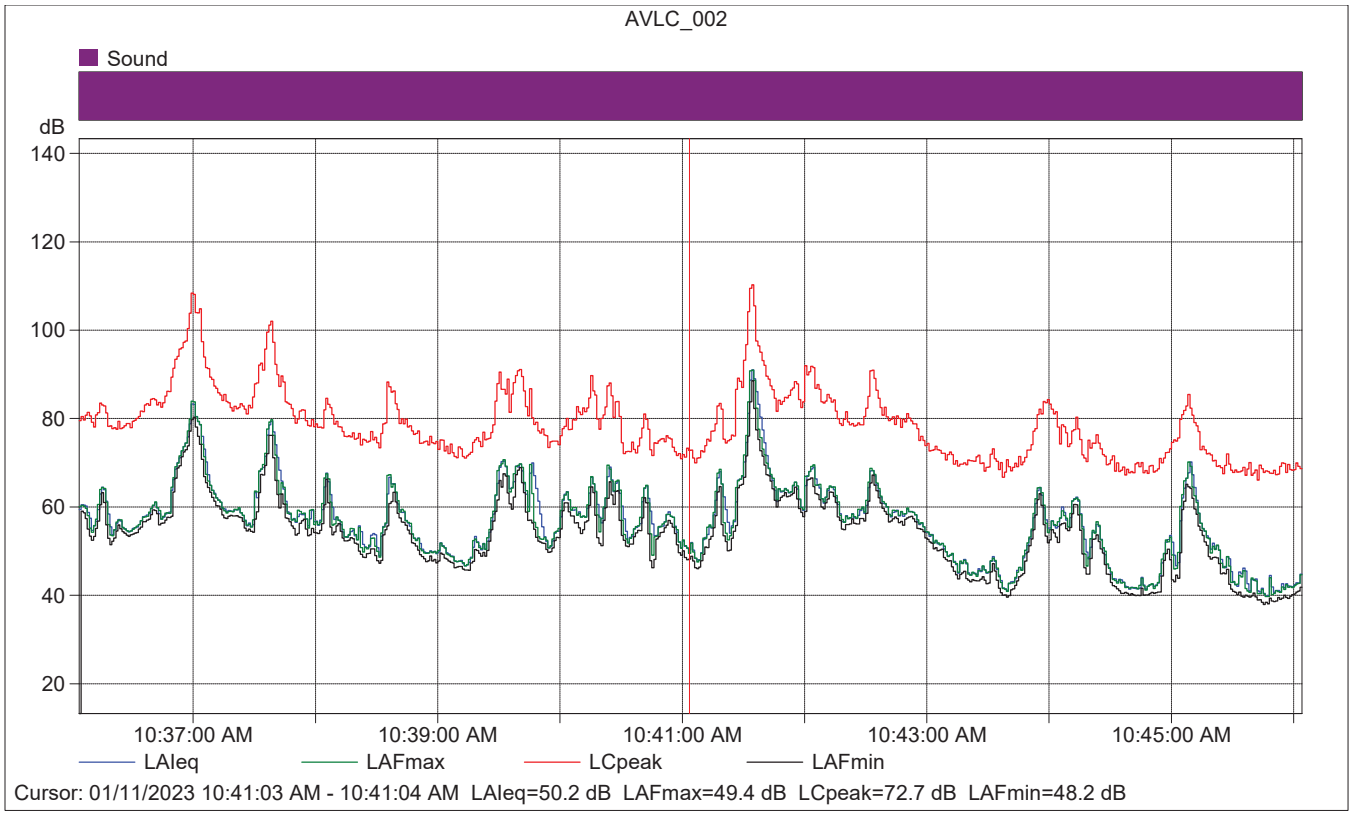
Calibration Time:		01/11/2023 10:12:27
Calibration Type:		External reference
Sensitivity:		44.2486479878426 mV/Pa

AVLC_002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	68.1	90.9	37.9
Time	10:36:04 AM	10:46:04 AM	0:10:00				
Date	01/11/2023	01/11/2023					

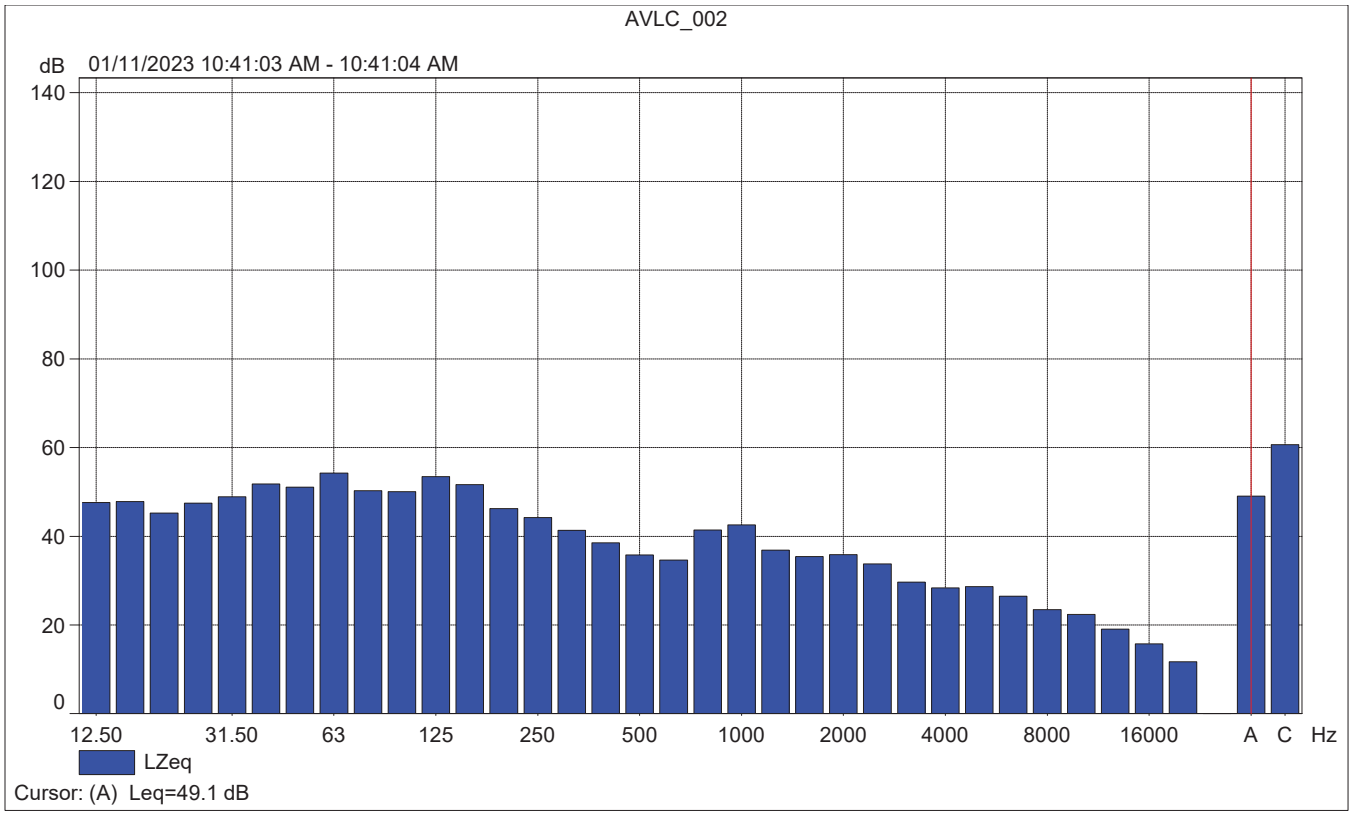

AVLC_002
dB
01/11/2023 10:36:04 AM - 10:46:04 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=68.1 dB LFmax=90.9 dB LFmin=37.9 dB

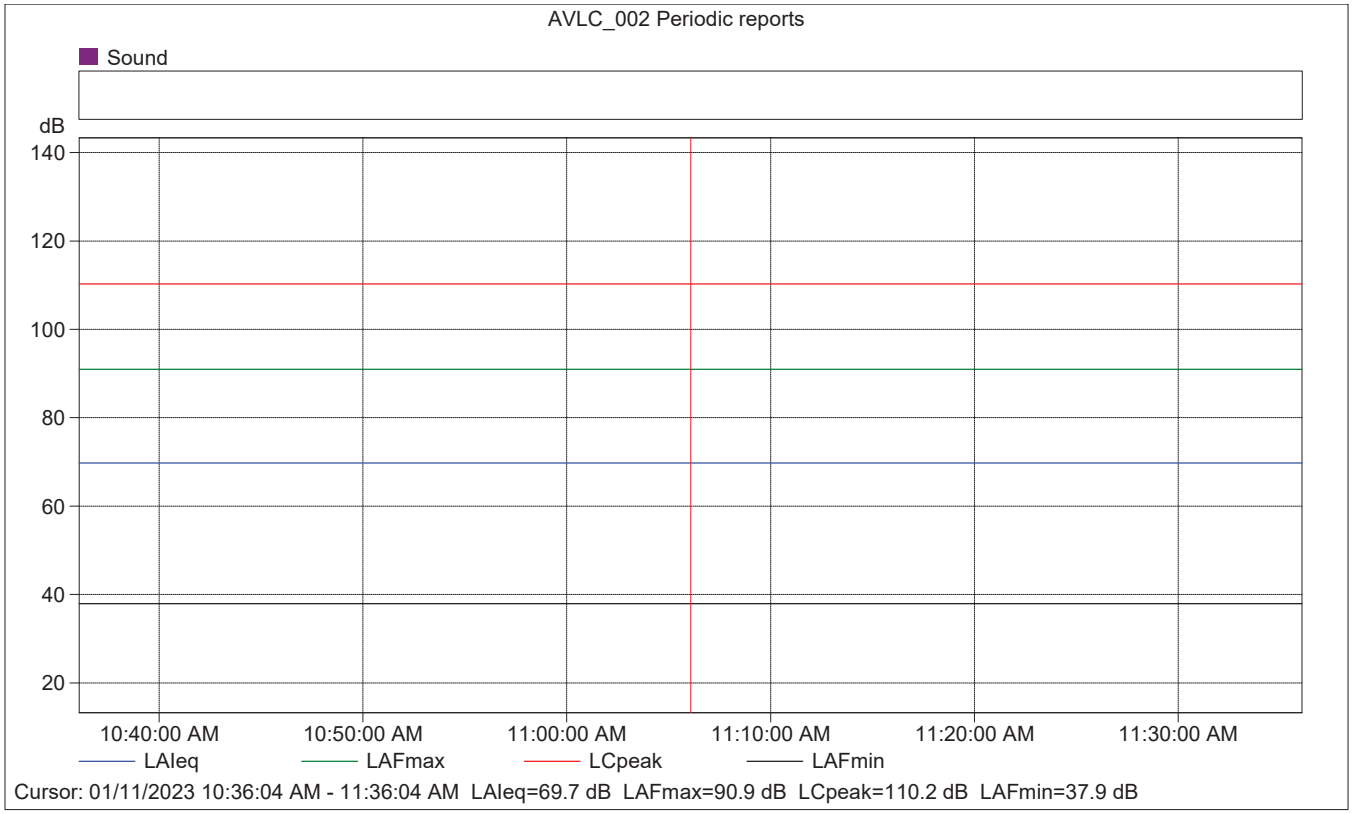

AVLC_002
%
Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:36:04 AM - 10:46:04 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 79.8 dB
L5 = 69.4 dB
L10 = 66.0 dB
L50 = 55.3 dB
L90 = 42.5 dB
L95 = 40.8 dB
L99 = 39.5 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 1.6%



AVLC_002

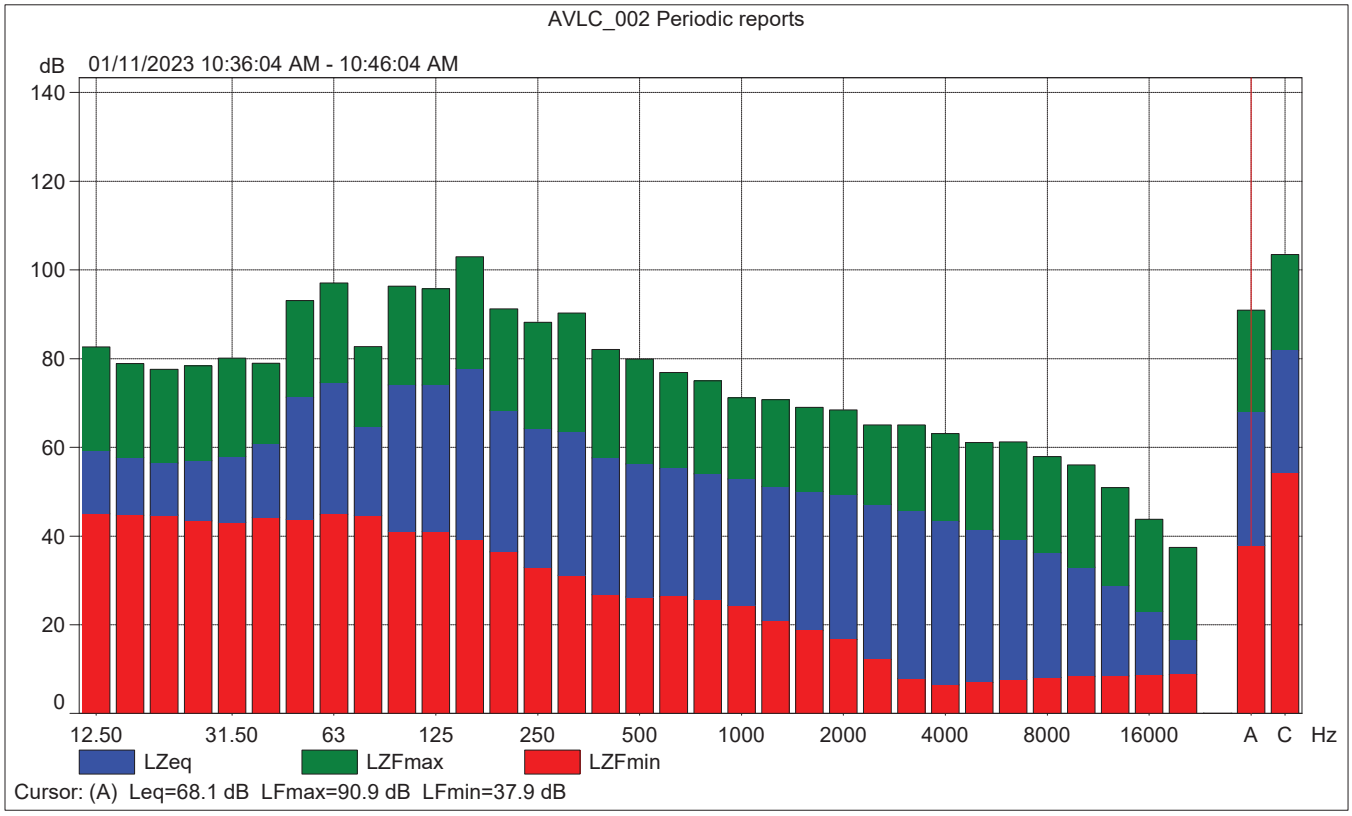
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			50.2	49.4	48.2
Time	10:41:03 AM	0:00:01			
Date	01/11/2023				

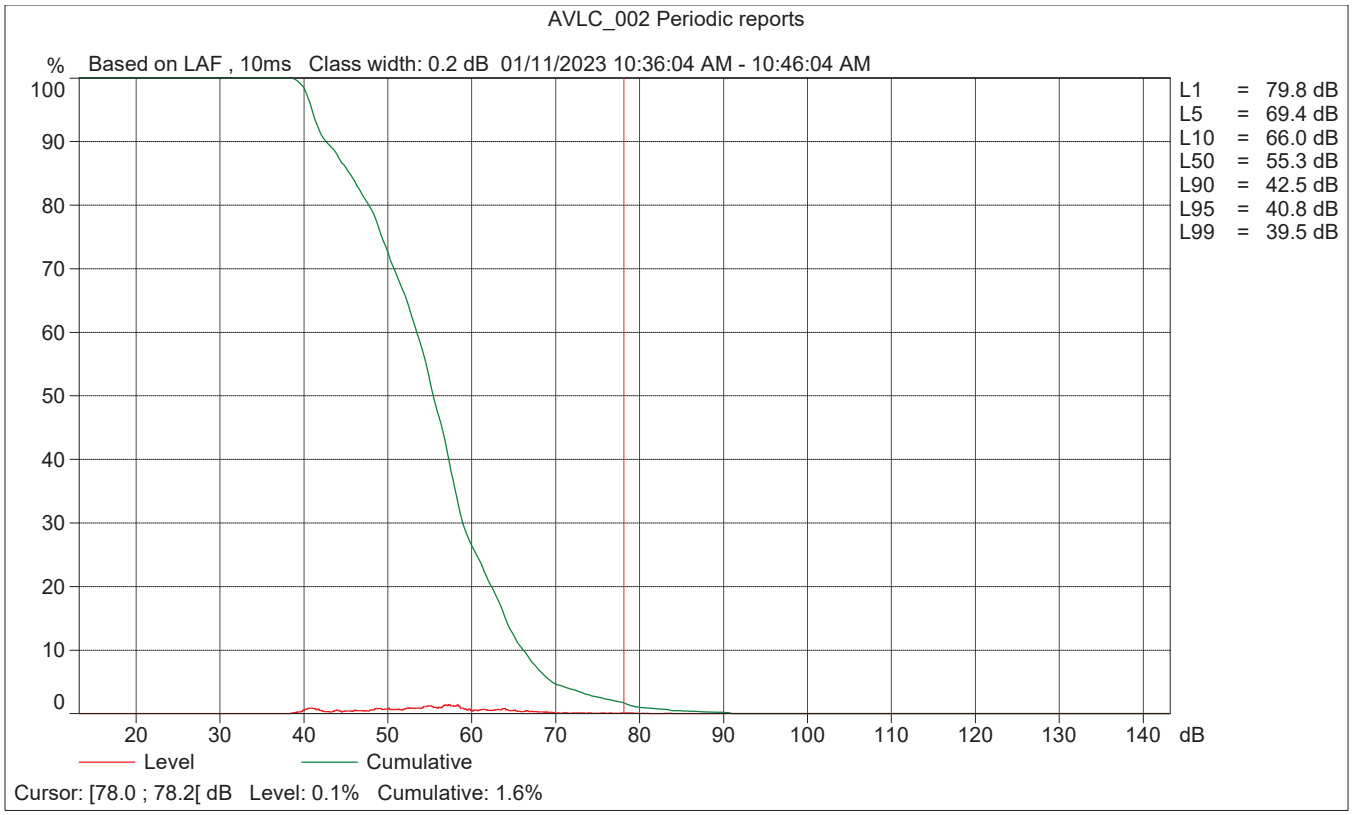

AVLC_002
dB
01/11/2023 10:41:03 AM - 10:41:04 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=49.1 dB


AVLC_002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/11/2023 10:36:04 AM - 11:36:04 AM LAIeq=69.7 dB LAFmax=90.9 dB LCpeak=110.2 dB LAFmin=37.9 dB

AVLC_002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	69.7	90.9	37.9
Time	10:36:04 AM	0:10:00				
Date	01/11/2023					




AVLC_002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:36:04 AM - 10:46:04 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 79.8 dB
L5 = 69.4 dB
L10 = 66.0 dB
L50 = 55.3 dB
L90 = 42.5 dB
L95 = 40.8 dB
L99 = 39.5 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 1.6%

Site Number: NM-3	
Recorded By: Darshan Shivaiah, Winnie Woo	
Job Number: 192691	
Date: 11/01/23	
Time: 10:55 a.m.	
Location: On the sidewalk in front of 45920 Regents Street residence	
Source of Ambient Noise: Traffic noise in the vicinity	
Source of Peak Noise: NA	

Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
50.9	42.6	69.3	84.0

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	

Weather Data			
Est.	Duration: 10 minutes		Sky: Sunny
	Note: dBA Offset = 0.02		Sensor Height (ft): 5 ft
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)	Barometer Pressure (inches)
	3 mph	66	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		01/11/2023 10:55:30
End Time:		01/11/2023 11:05:30
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.00

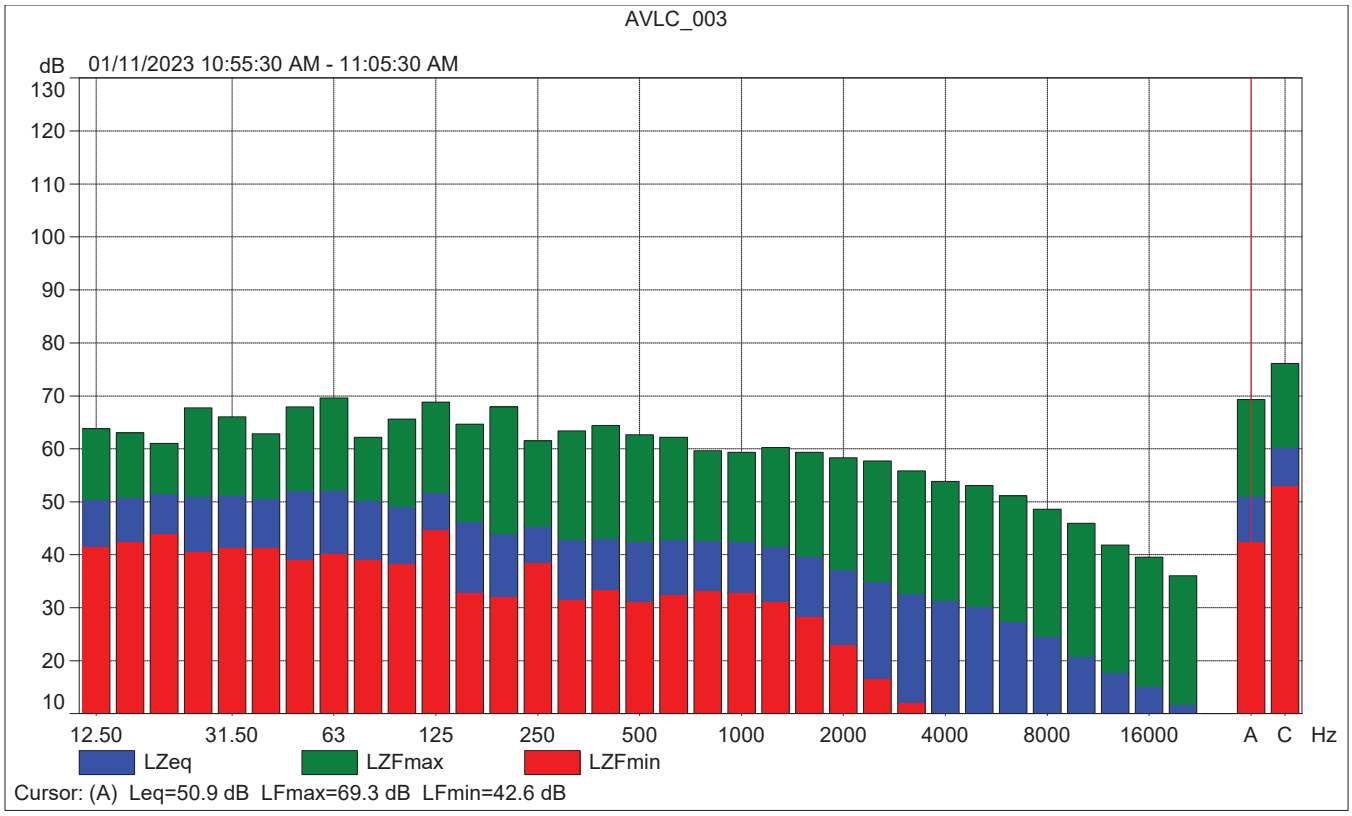
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

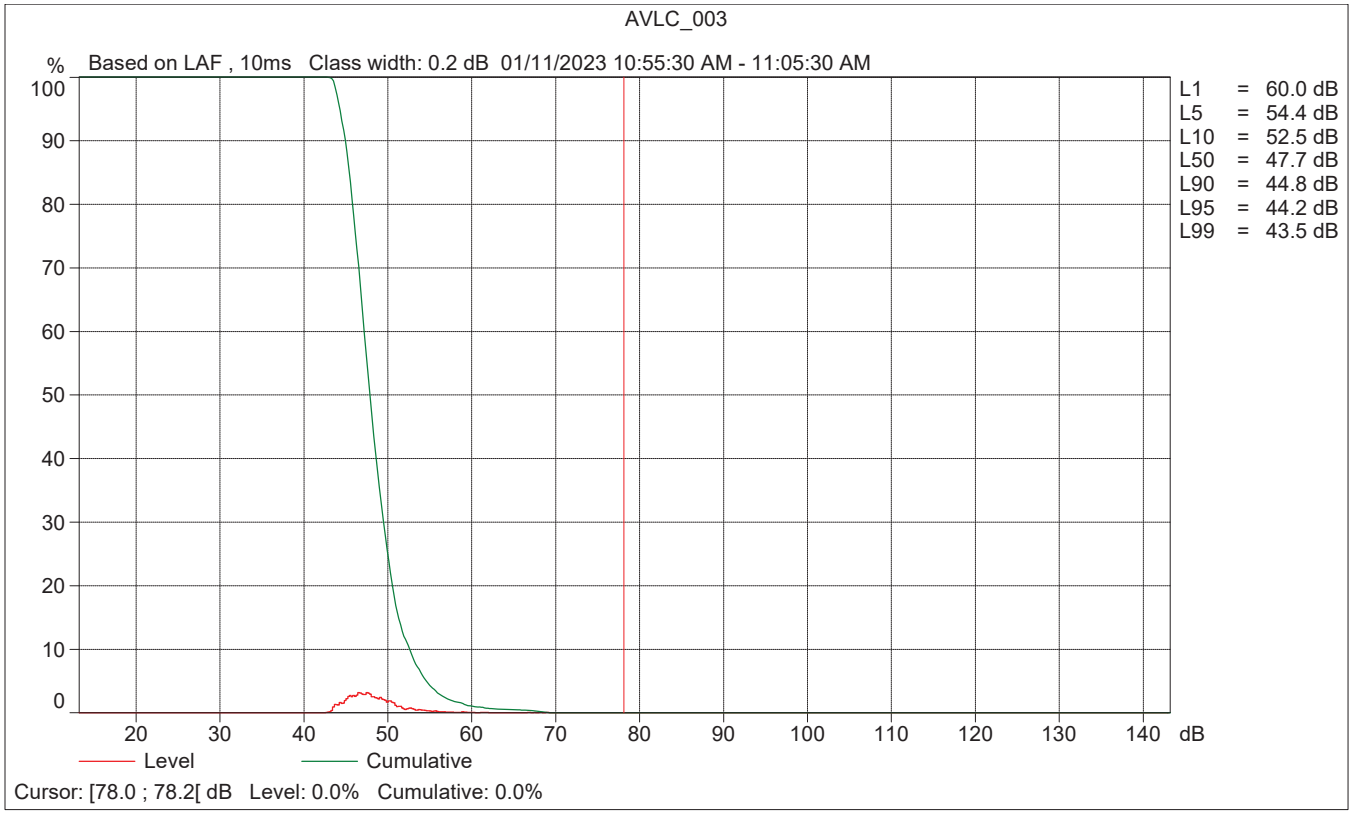
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

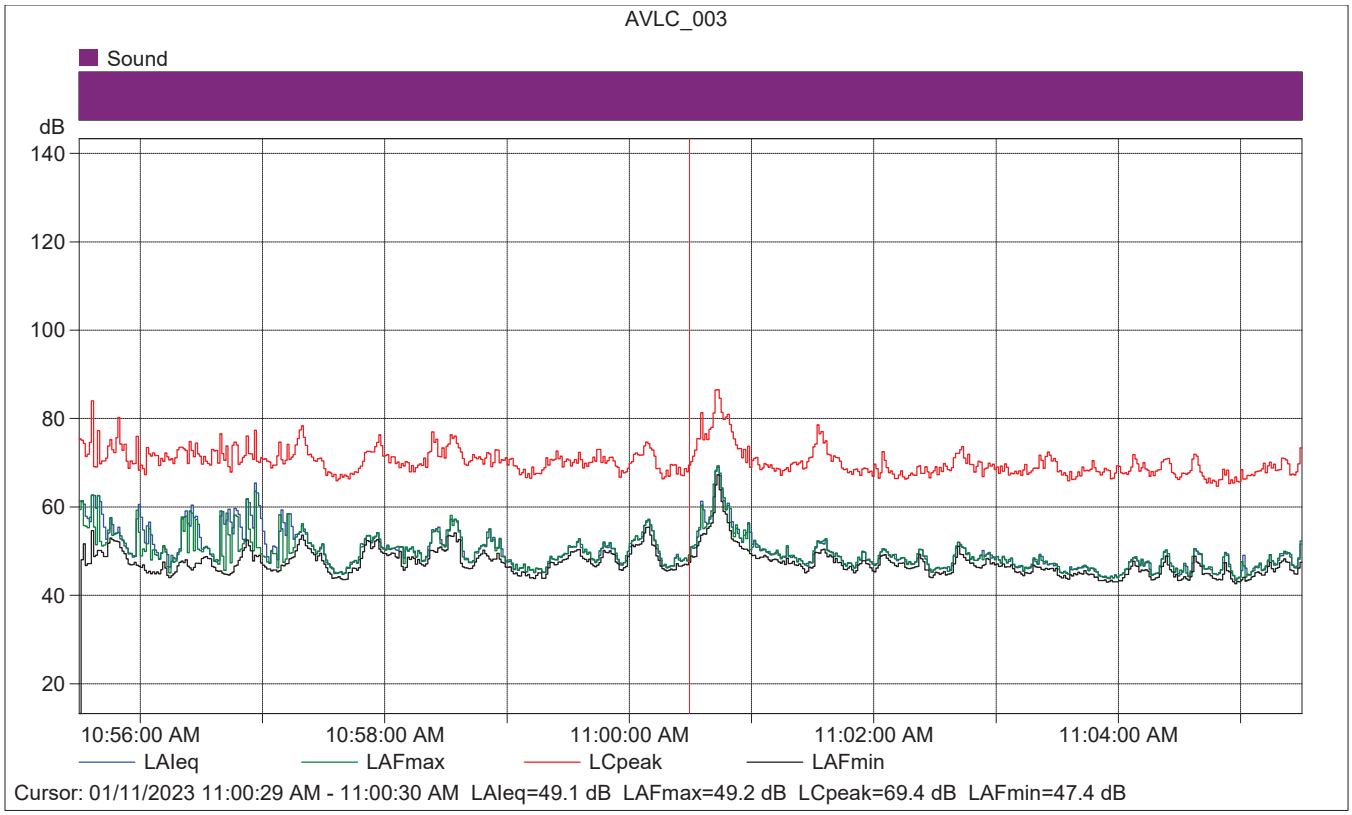
Calibration Time:		01/11/2023 10:12:27
Calibration Type:		External reference
Sensitivity:		44.2486479878426 mV/Pa

AVLC_003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	50.9	69.3	42.6
Time	10:55:30 AM	11:05:30 AM	0:10:00				
Date	01/11/2023	01/11/2023					

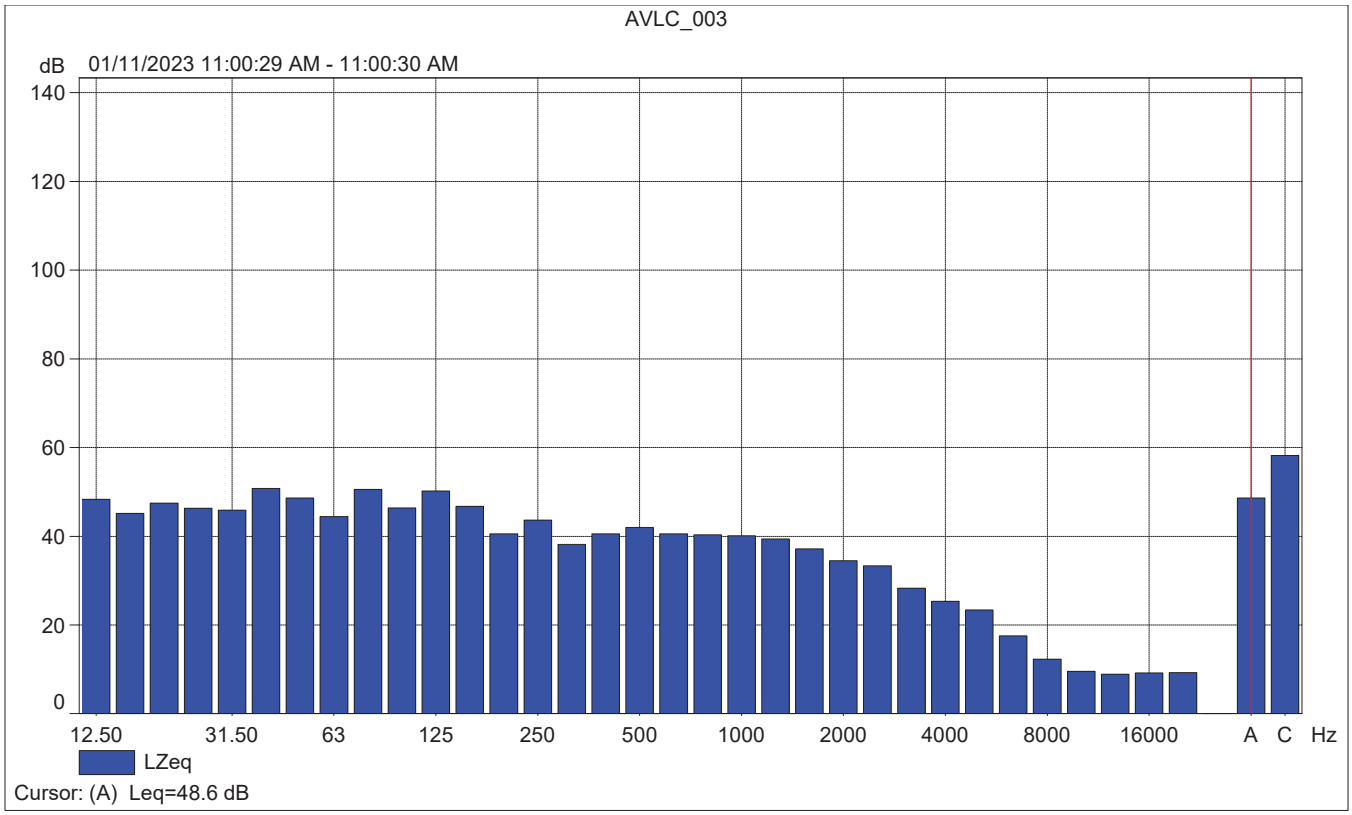

AVLC_003
dB
01/11/2023 10:55:30 AM - 11:05:30 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=50.9 dB LFmax=69.3 dB LFmin=42.6 dB

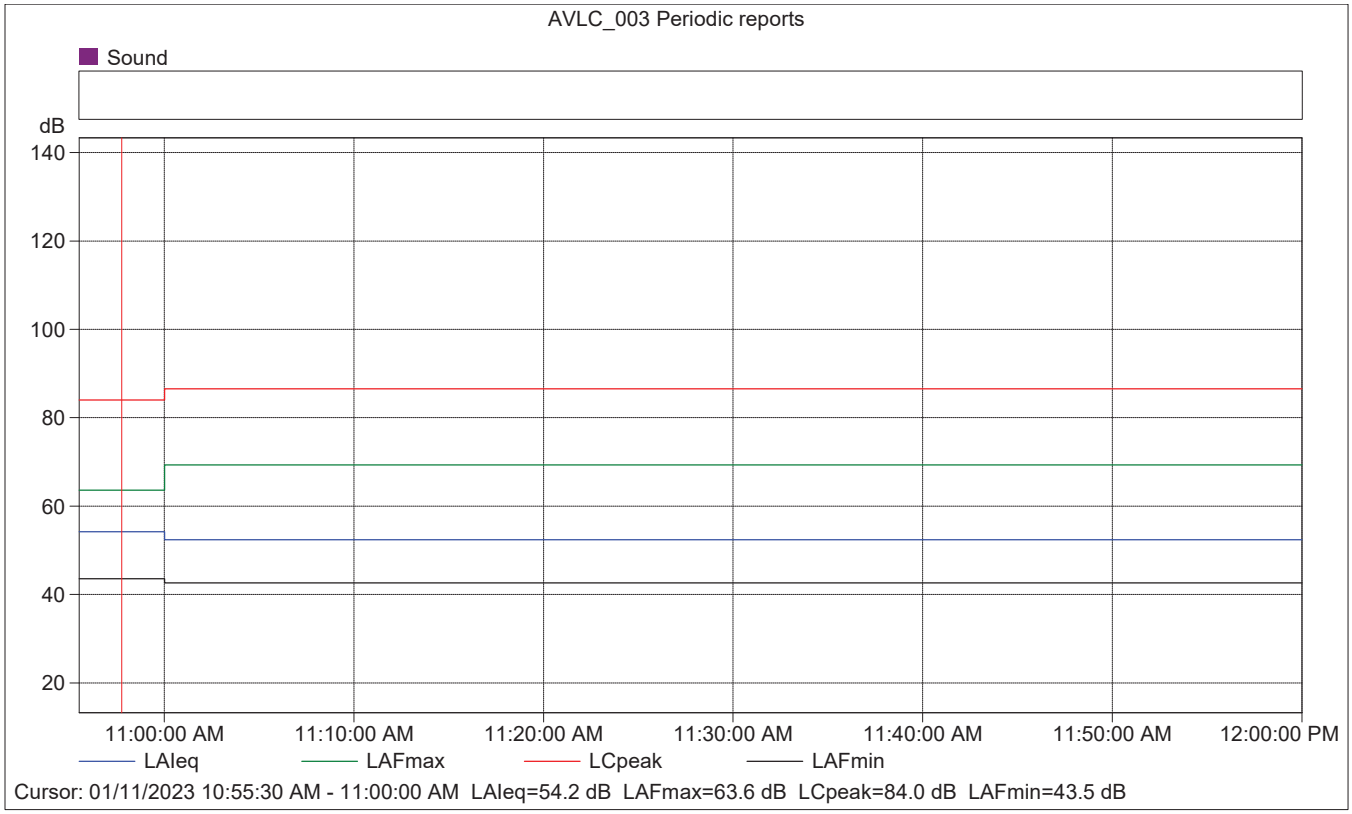

AVLC_003
%
Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:55:30 AM - 11:05:30 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 60.0 dB
L5 = 54.4 dB
L10 = 52.5 dB
L50 = 47.7 dB
L90 = 44.8 dB
L95 = 44.2 dB
L99 = 43.5 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



AVLC_003

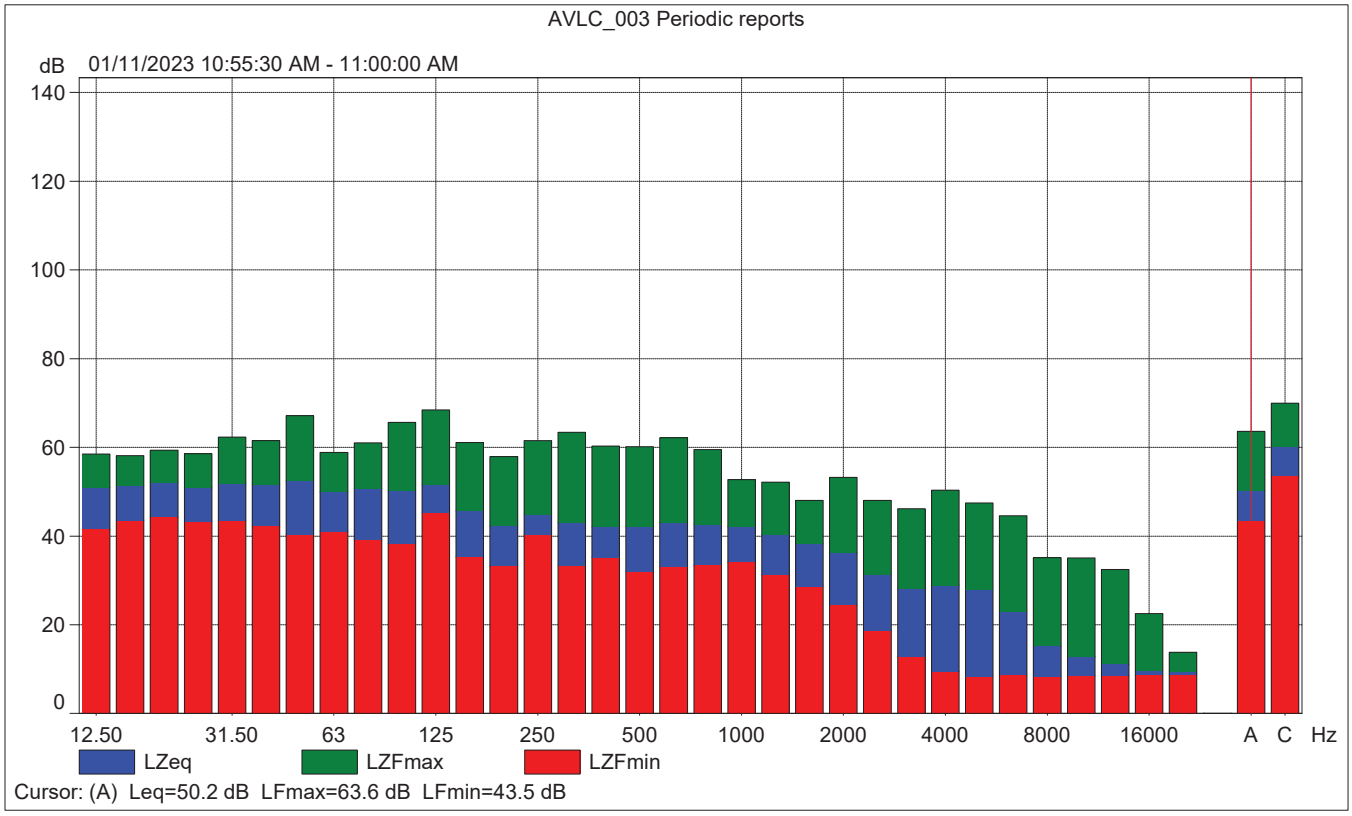
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			49.1	49.2	47.4
Time	11:00:29 AM	0:00:01			
Date	01/11/2023				

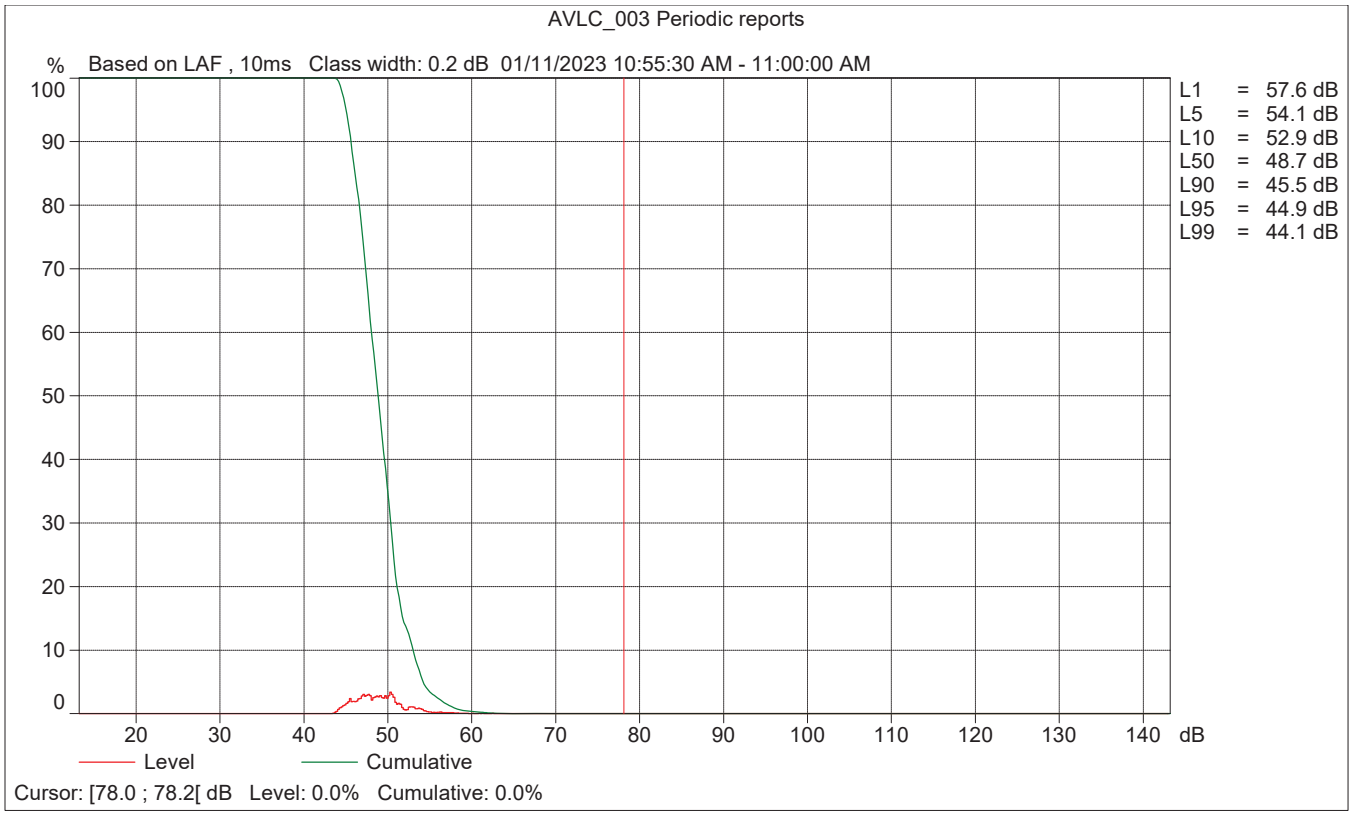

AVLC_003
dB
01/11/2023 11:00:29 AM - 11:00:30 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=48.6 dB


AVLC_003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
11:50:00 AM
12:00:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/11/2023 10:55:30 AM - 11:00:00 AM LAIeq=54.2 dB LAFmax=63.6 dB LCpeak=84.0 dB LAFmin=43.5 dB

AVLC_003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	54.2	63.6	43.5
Time	10:55:30 AM	0:04:30				
Date	01/11/2023					




AVLC_003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 10:55:30 AM - 11:00:00 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 57.6 dB
L5 = 54.1 dB
L10 = 52.9 dB
L50 = 48.7 dB
L90 = 45.5 dB
L95 = 44.9 dB
L99 = 44.1 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

Site Number: NM-4	
Recorded By: Darshan Shivaiah, Winnie Woo	
Job Number: 192691	
Date: 11/01/23	
Time: 11:32 a.m.	
Location: On the northwest corner of 25th Street West and West Avenue F intersection	
Source of Ambient Noise: Traffic noise along West Avenue F	
Source of Peak Noise: Trucks passing by	

Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
64.1	35.1	83.3	103.1

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	

Weather Data			
Est.	Duration: 10 minutes		Sky: Sunny
	Note: dBA Offset = 0.02		Sensor Height (ft): 5 ft
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)	Barometer Pressure (inches)
	3 mph	66	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		01/11/2023 11:32:24
End Time:		01/11/2023 11:42:24
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.00

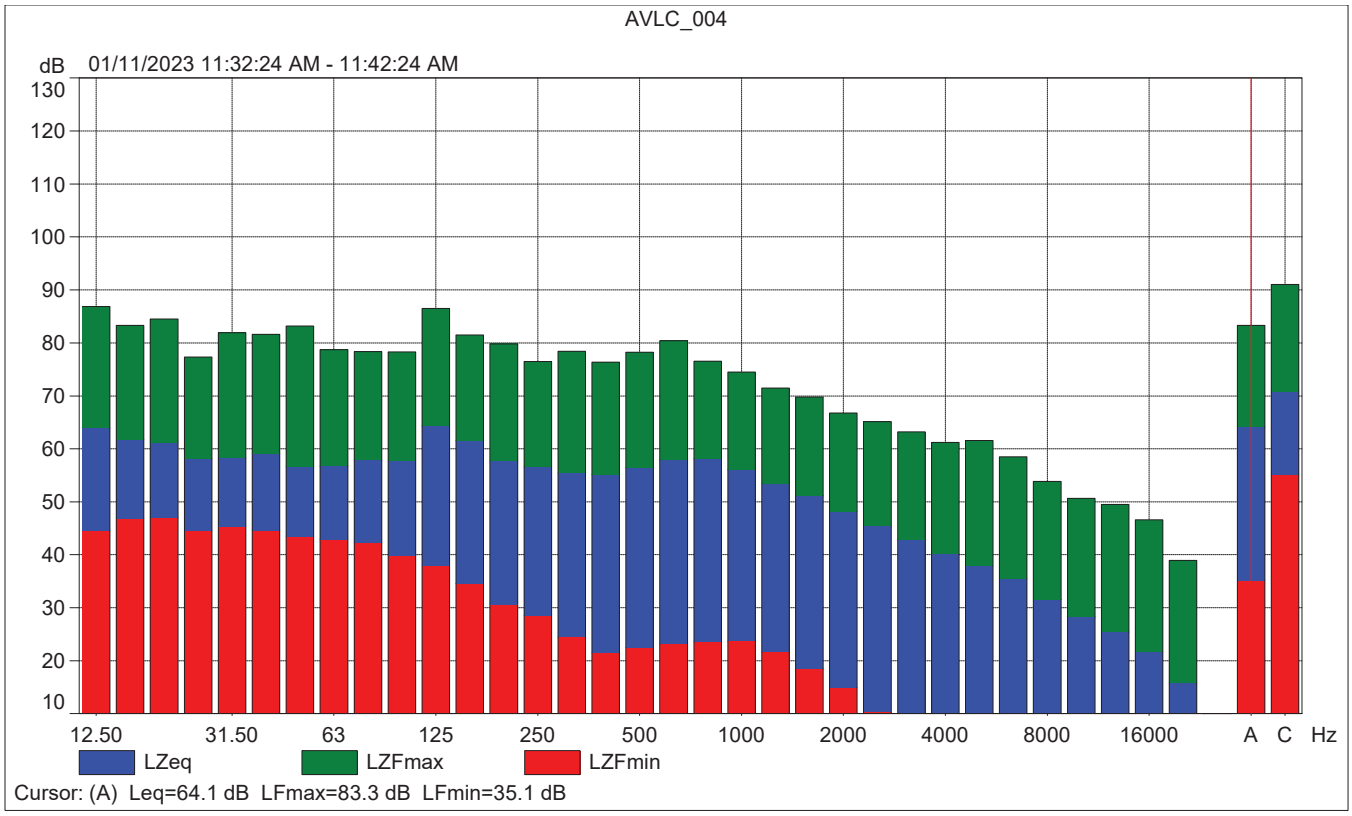
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

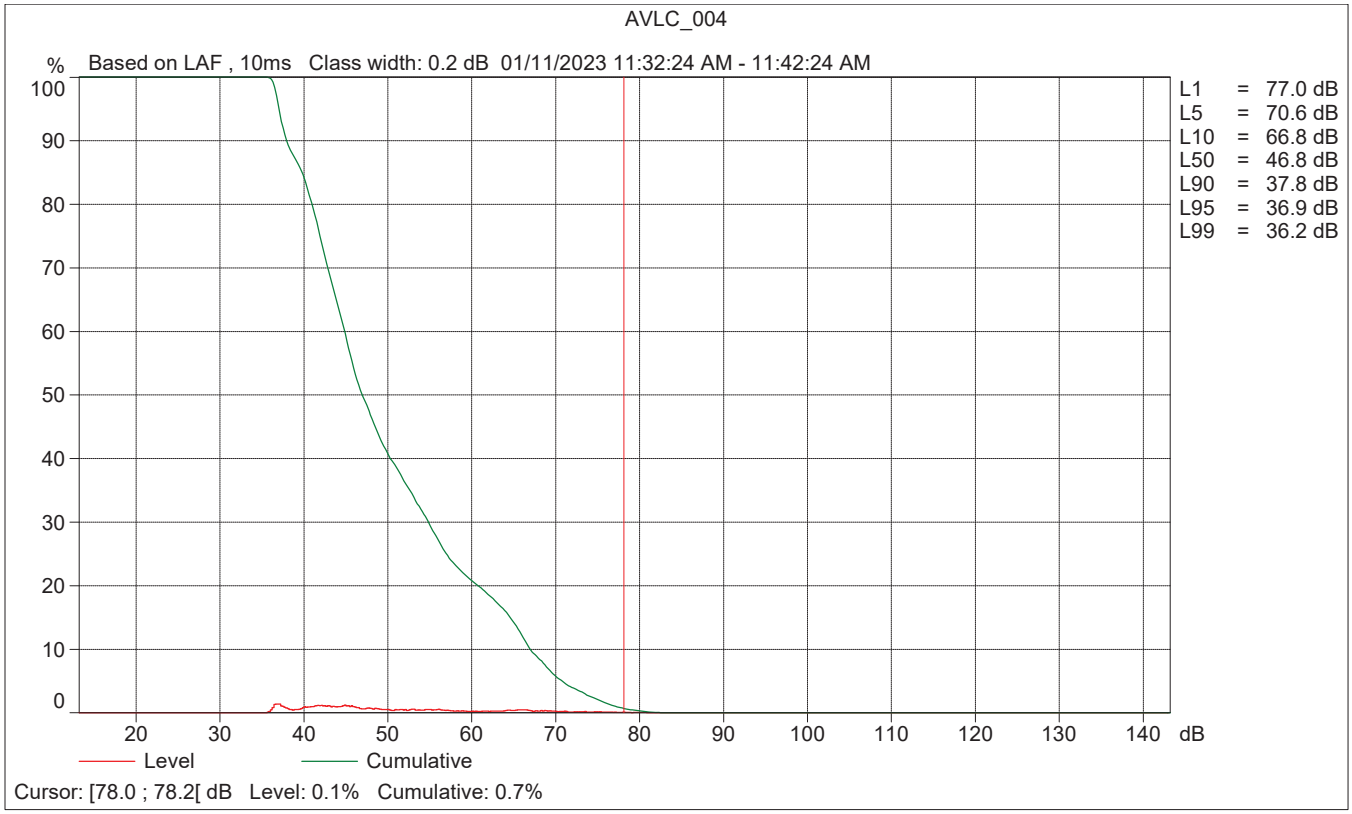
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

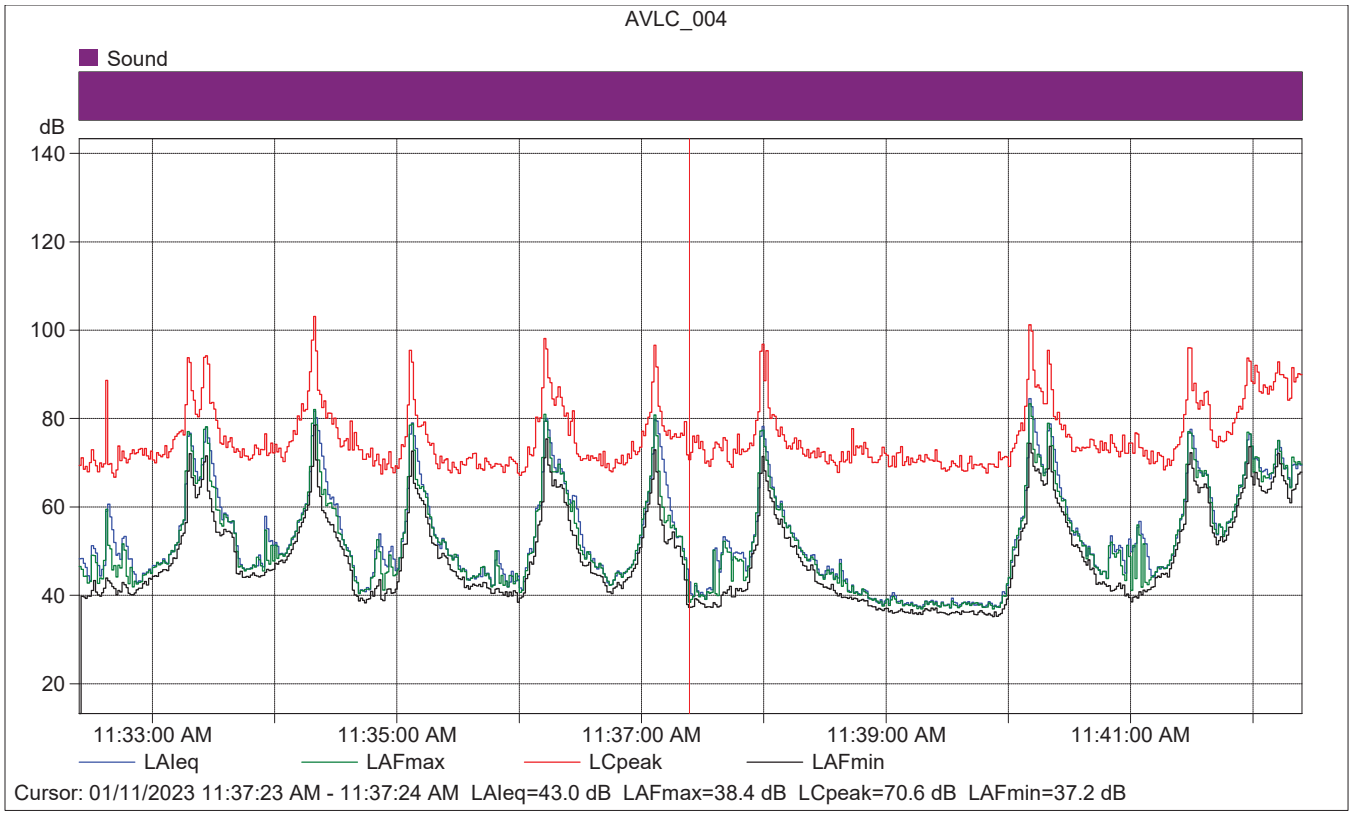
Calibration Time:		01/11/2023 10:12:27
Calibration Type:		External reference
Sensitivity:		44.2486479878426 mV/Pa

AVLC_004

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	64.1	83.3	35.1
Time	11:32:24 AM	11:42:24 AM	0:10:00				
Date	01/11/2023	01/11/2023					

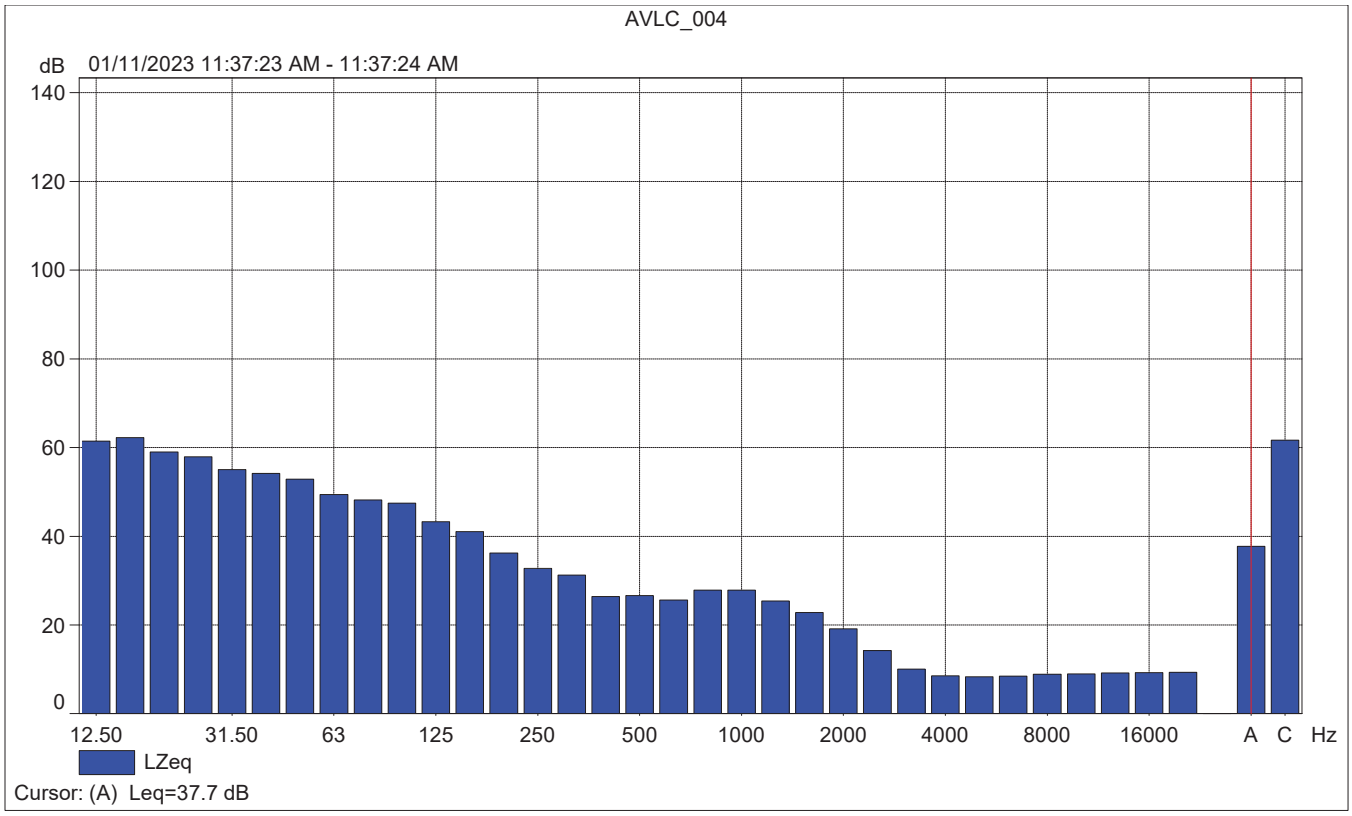

AVLC_004
dB
01/11/2023 11:32:24 AM - 11:42:24 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=64.1 dB LFmax=83.3 dB LFmin=35.1 dB

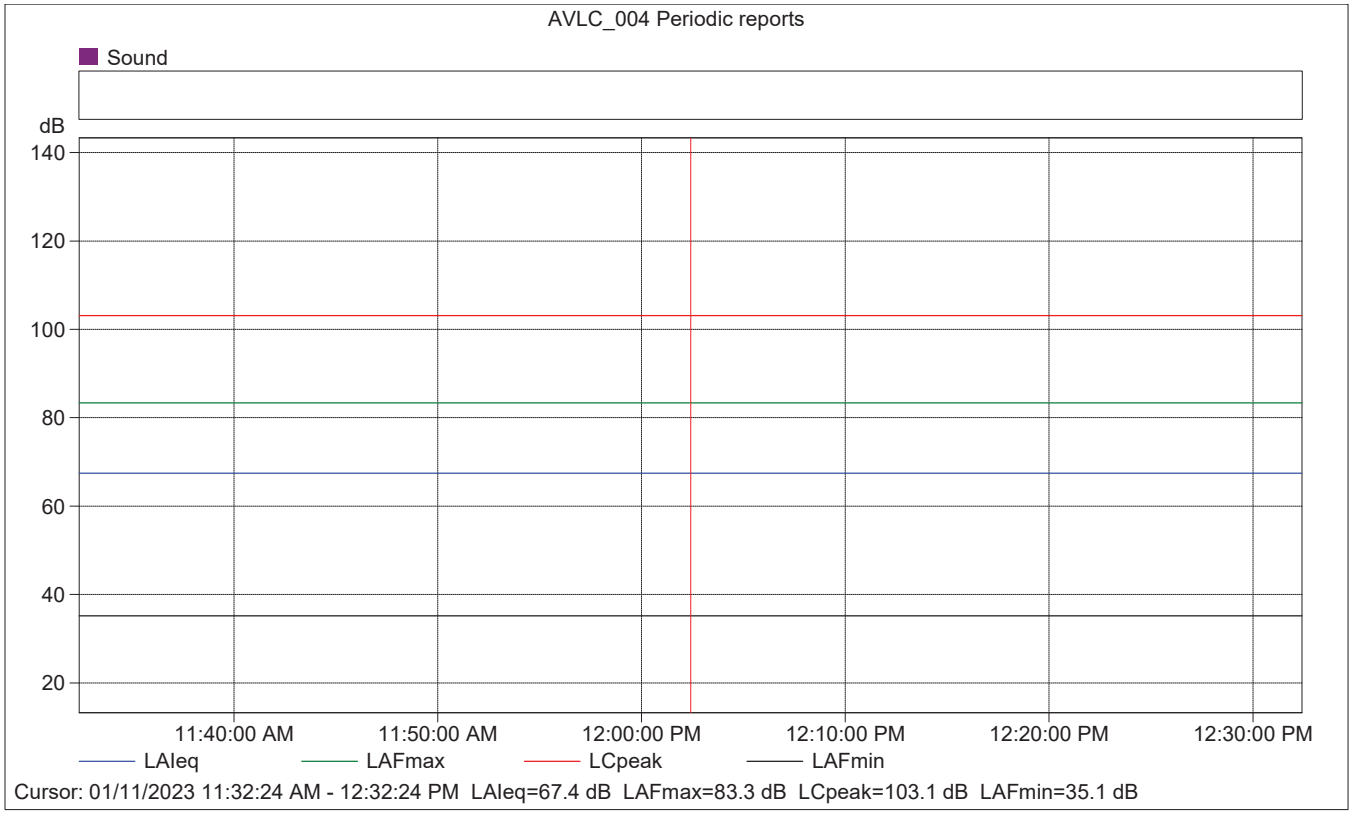

AVLC_004
%
Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 11:32:24 AM - 11:42:24 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 77.0 dB
L5 = 70.6 dB
L10 = 66.8 dB
L50 = 46.8 dB
L90 = 37.8 dB
L95 = 36.9 dB
L99 = 36.2 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 0.7%



AVLC_004

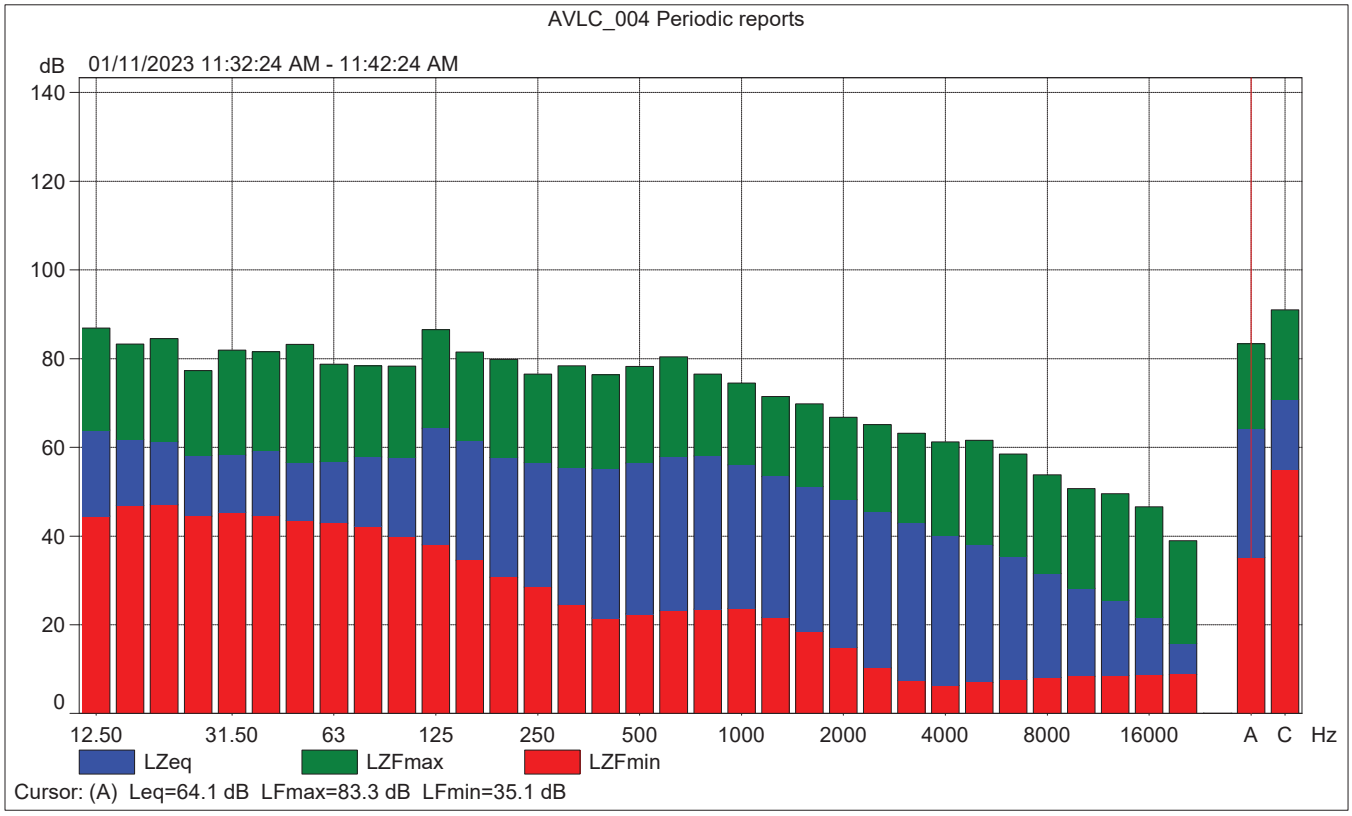
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			43.0	38.4	37.2
Time	11:37:23 AM	0:00:01			
Date	01/11/2023				

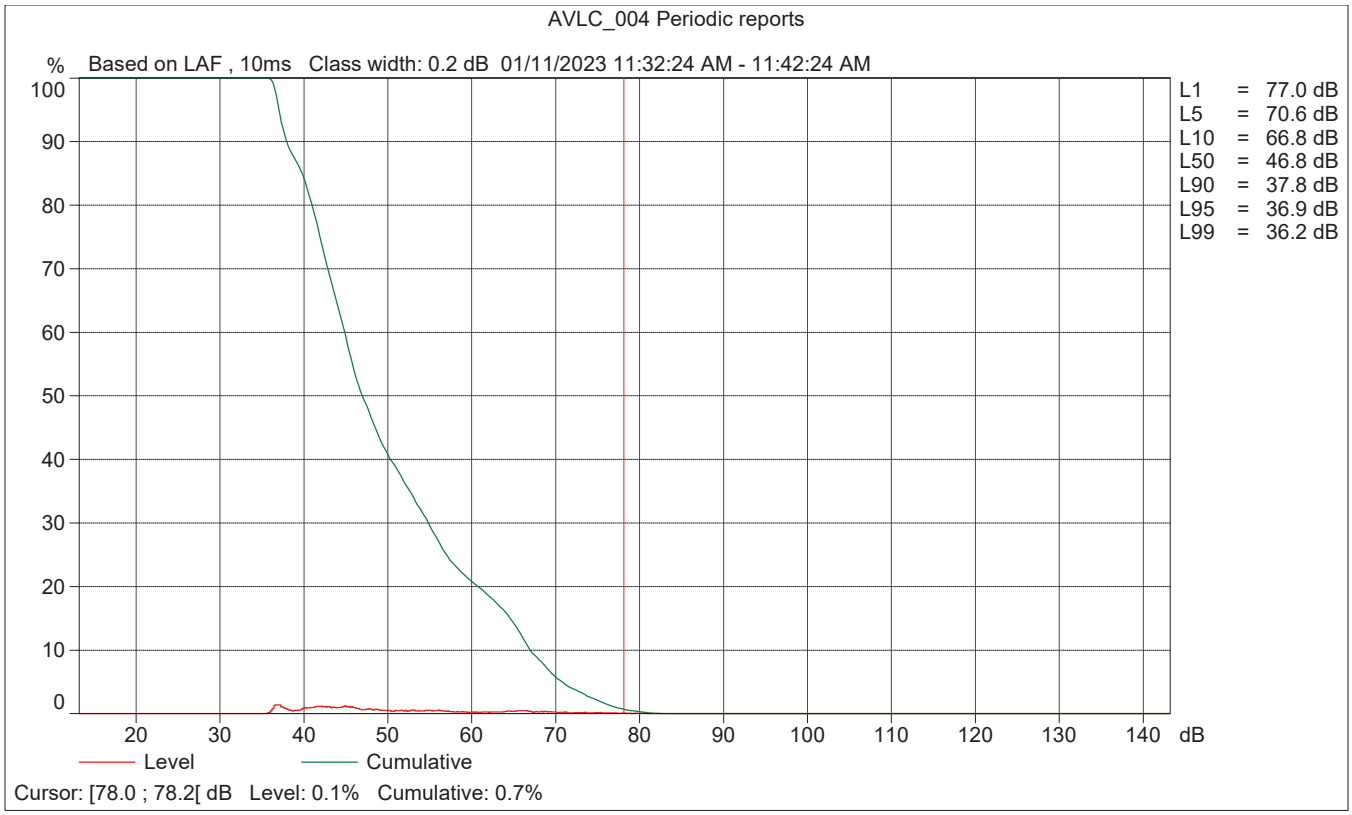

AVLC_004
dB
01/11/2023 11:37:23 AM - 11:37:24 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=37.7 dB


AVLC_004 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:40:00 AM
11:50:00 AM
12:00:00 PM
12:10:00 PM
12:20:00 PM
12:30:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/11/2023 11:32:24 AM - 12:32:24 PM LAIeq=67.4 dB LAFmax=83.3 dB LCpeak=103.1 dB LAFmin=35.1 dB

AVLC_004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	67.4	83.3	35.1
Time	11:32:24 AM	0:10:00				
Date	01/11/2023					




AVLC_004 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 11:32:24 AM - 11:42:24 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 77.0 dB
L5 = 70.6 dB
L10 = 66.8 dB
L50 = 46.8 dB
L90 = 37.8 dB
L95 = 36.9 dB
L99 = 36.2 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.1% Cumulative: 0.7%

Site Number: NM-5	
Recorded By: Darshan Shivaiah, Winnie Woo	
Job Number: 192691	
Date: 11/01/23	
Time: 11:53 a.m.	
Location: Along the sidewalk of 20th Street West, near Liesure Lake Mobile Estates	
Source of Ambient Noise: Traffic noise along 20th Street West and SR-14	
Source of Peak Noise: Trucks passing by	

Noise Data			
Leq (dB)	Lmax(dB)	Lmin (dB)	Peak (dB)
58.8	42.9	76.5	92.2

Equipment						
Category	Type	Vendor	Model	Serial No.	Cert. Date	Note
Sound	Sound Level Meter	Brüel & Kjær	2250	3011133	03/10/2022	
	Microphone	Brüel & Kjær	4189	3086765	03/10/2022	
	Preamp	Brüel & Kjær	ZC 0032	25380	03/10/2022	
	Calibrator	Brüel & Kjær	4231	2545667	03/10/2022	

Weather Data			
Est.	Duration: 10 minutes		Sky: Sunny
	Note: dBA Offset = 0.02		Sensor Height (ft): 5 ft
	Wind Ave Speed (mph / m/s)	Temperature (degrees Fahrenheit)	Barometer Pressure (inches)
	3 mph	66	39

Photo of Measurement Location



2250

Instrument:		2250
Application:		BZ7225 Version 4.7.6
Start Time:		01/11/2023 11:53:21
End Time:		01/11/2023 12:03:21
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.00

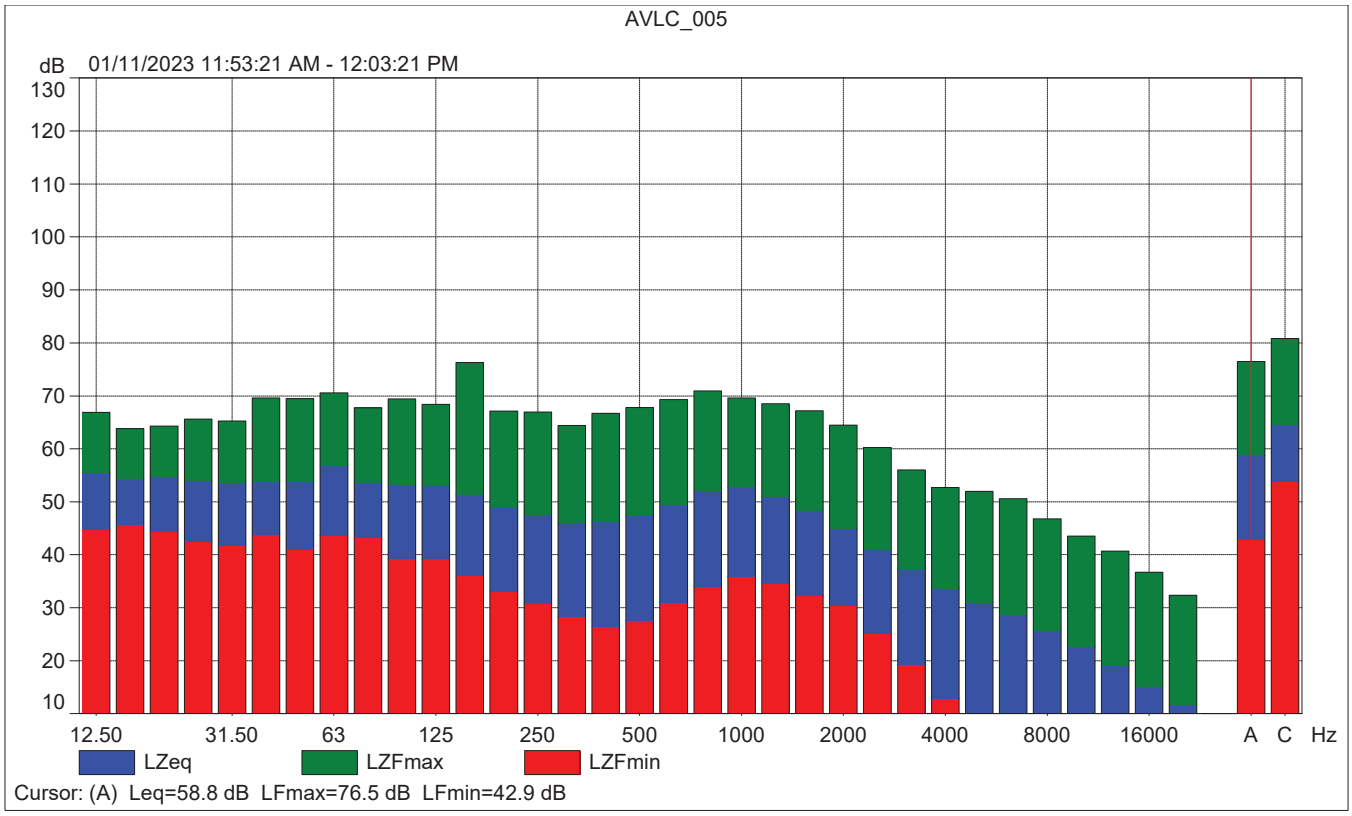
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

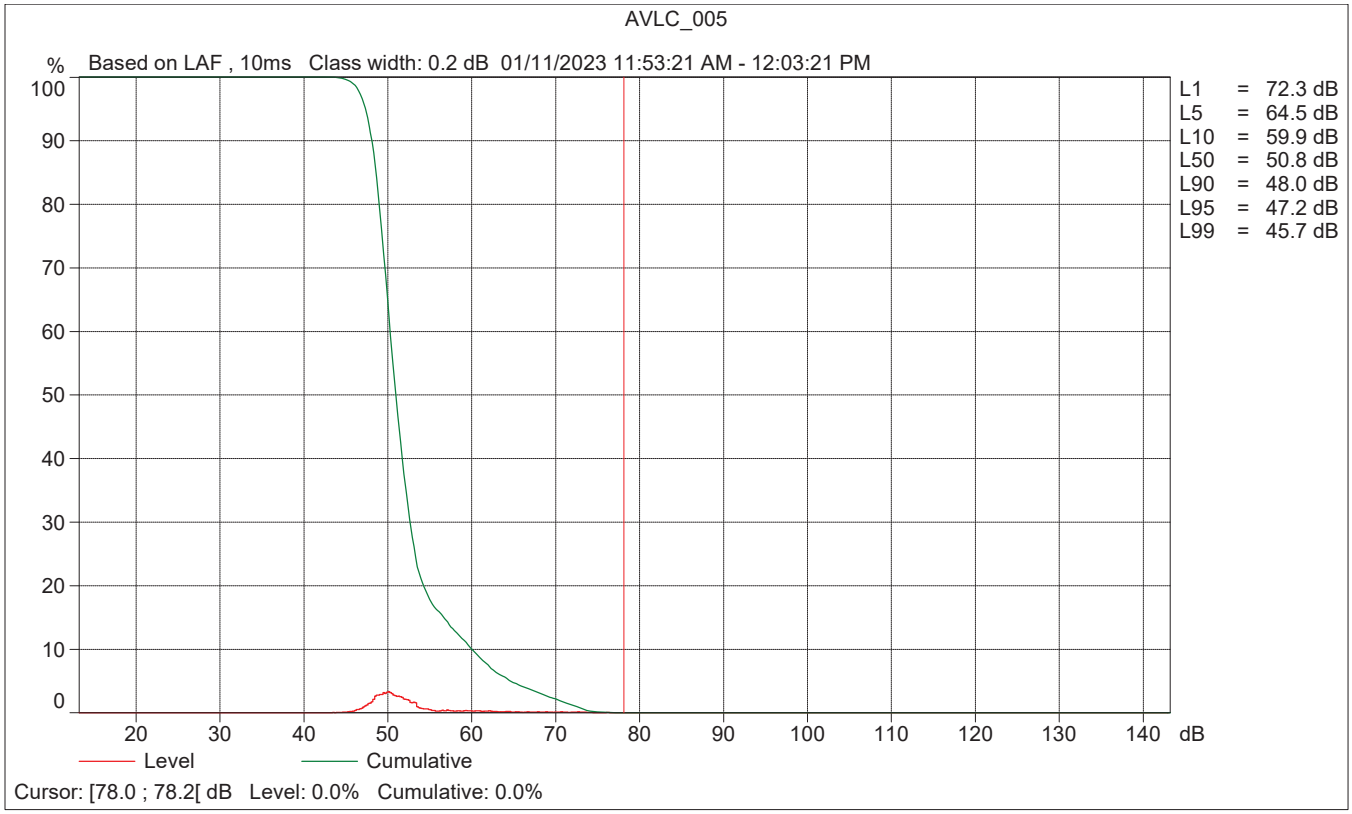
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

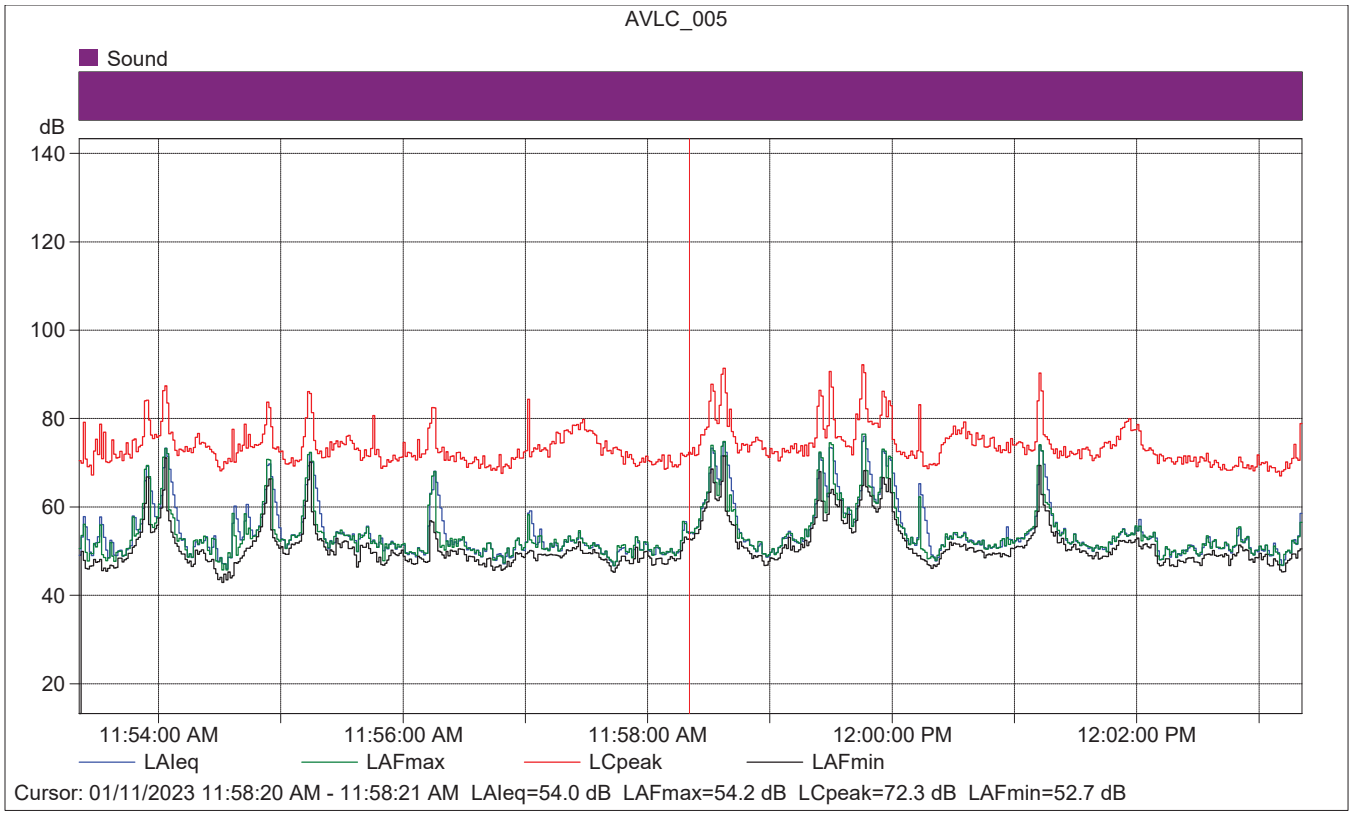
Calibration Time:		01/11/2023 10:12:27
Calibration Type:		External reference
Sensitivity:		44.2486479878426 mV/Pa

AVLC_005

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	58.8	76.5	42.9
Time	11:53:21 AM	12:03:21 PM	0:10:00				
Date	01/11/2023	01/11/2023					

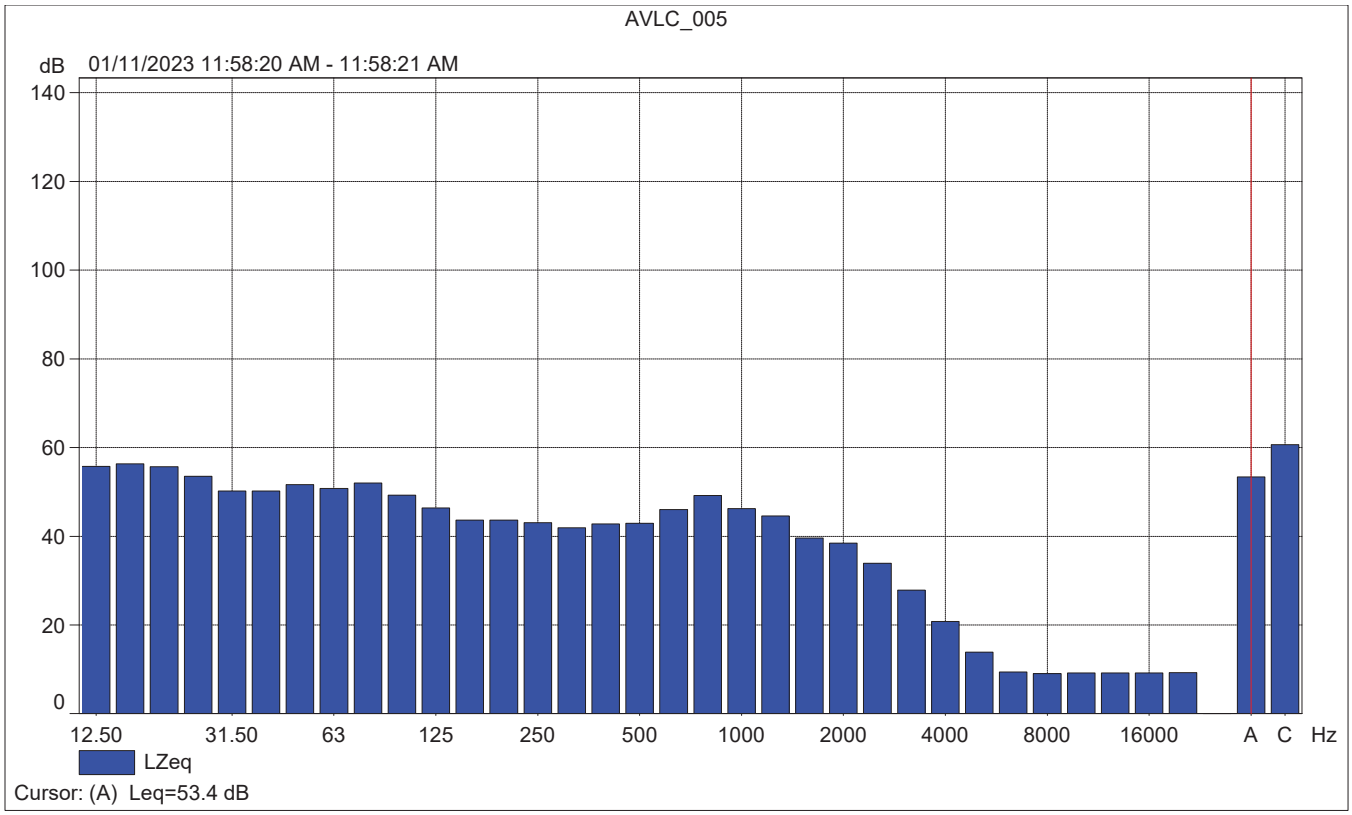

AVLC_005
dB
01/11/2023 11:53:21 AM - 12:03:21 PM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=58.8 dB LFmax=76.5 dB LFmin=42.9 dB

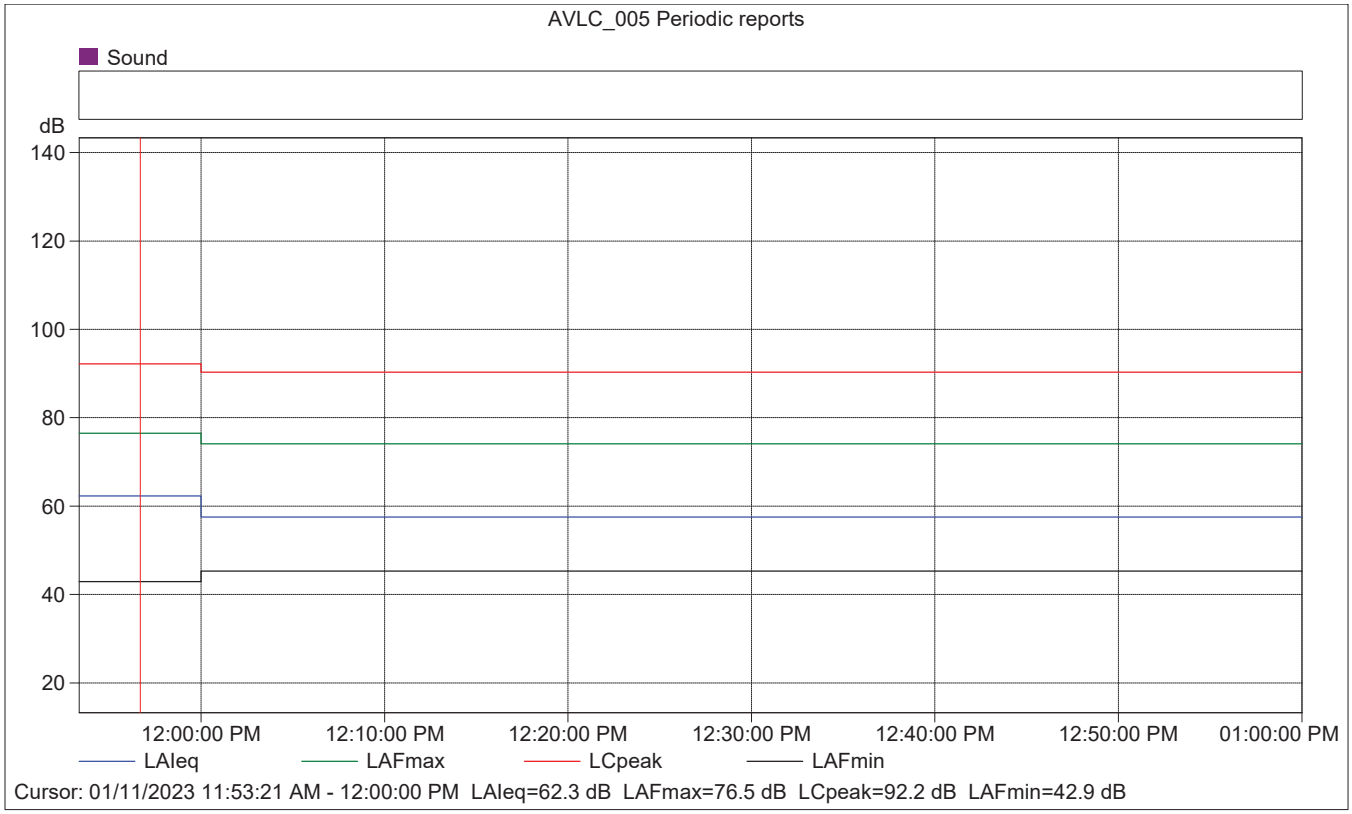

AVLC_005
%
Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 11:53:21 AM - 12:03:21 PM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 72.3 dB
L5 = 64.5 dB
L10 = 59.9 dB
L50 = 50.8 dB
L90 = 48.0 dB
L95 = 47.2 dB
L99 = 45.7 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



AVLC_005

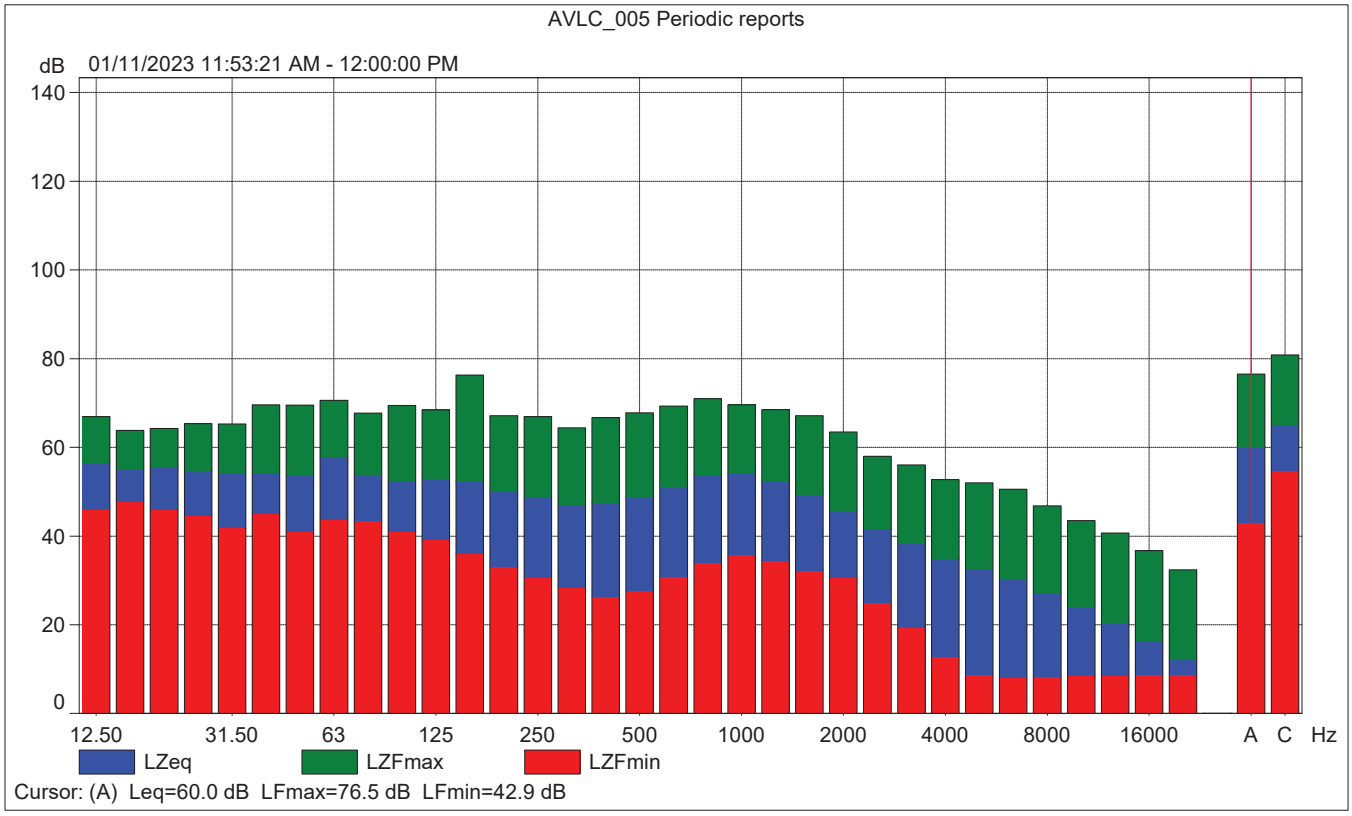
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			54.0	54.2	52.7
Time	11:58:20 AM	0:00:01			
Date	01/11/2023				

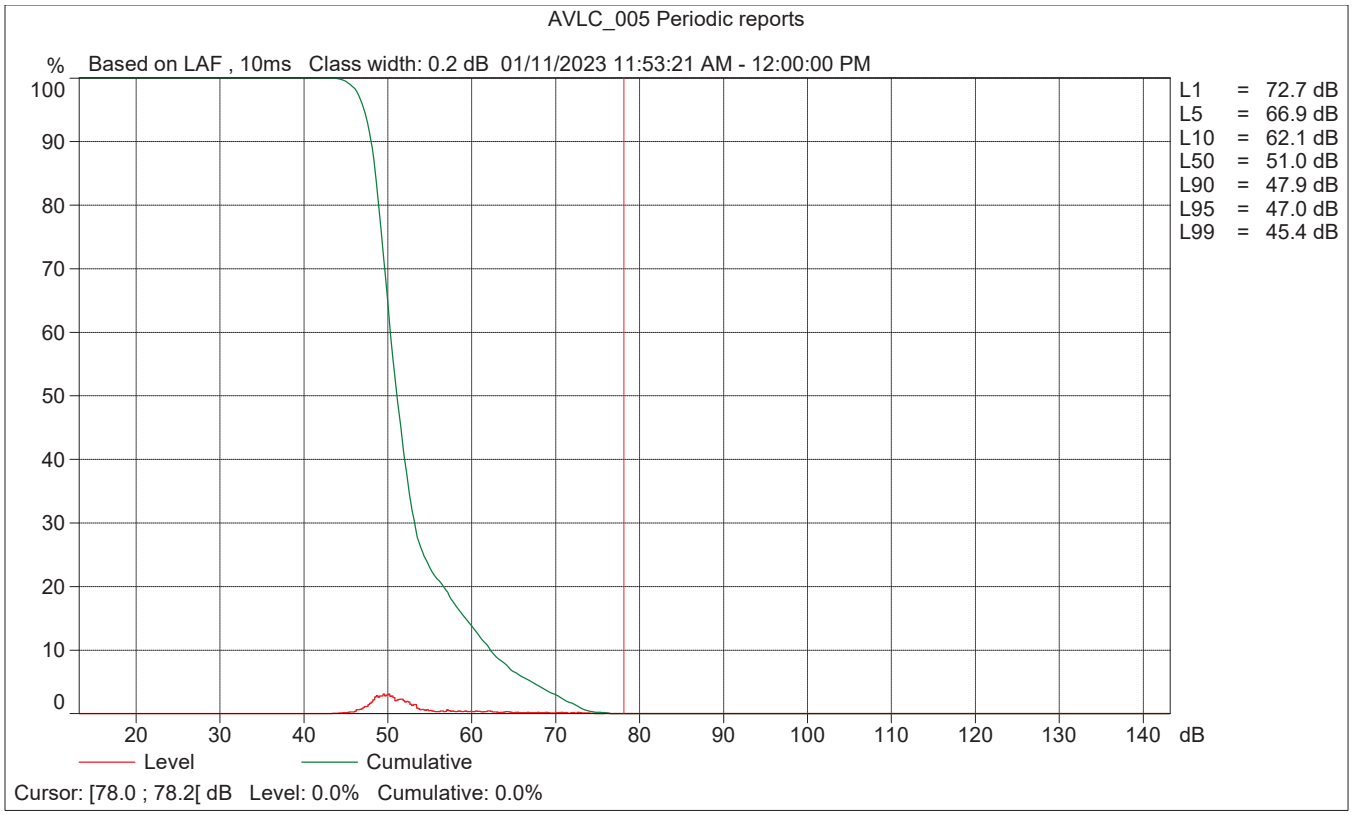

AVLC_005
dB
01/11/2023 11:58:20 AM - 11:58:21 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=53.4 dB


AVLC_005 Periodic reports
Sound
dB
140
120
100
80
60
40
20
12:00:00 PM
12:10:00 PM
12:20:00 PM
12:30:00 PM
12:40:00 PM
12:50:00 PM
01:00:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 01/11/2023 11:53:21 AM - 12:00:00 PM LAIeq=62.3 dB LAFmax=76.5 dB LCpeak=92.2 dB LAFmin=42.9 dB

AVLC_005 Periodic reports

	Start time	Elapsed time	Overload [%]	LAleq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	62.3	76.5	42.9
Time	11:53:21 AM	0:06:39				
Date	01/11/2023					




AVLC_005 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 01/11/2023 11:53:21 AM - 12:00:00 PM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 72.7 dB
L5 = 66.9 dB
L10 = 62.1 dB
L50 = 51.0 dB
L90 = 47.9 dB
L95 = 47.0 dB
L99 = 45.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/28/2023
Case Description: AVLC West

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Grading	Residential	80	80	80	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85		3200	0
Excavator	No	40		80.7	3200	0
Excavator	No	40		80.7	3200	0
Tractor	No	40	84		3200	0
Tractor	No	40	84		3200	0
Scraper	No	40		83.6	3200	0
Scraper	No	40		83.6	3200	0
Dozer	No	40		81.7	3200	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Grader	48.9	44.9
Excavator	44.6	40.6
Excavator	44.6	40.6
Tractor	47.9	43.9
Tractor	47.9	43.9
Scraper	47.5	43.5
Scraper	47.5	43.5
Dozer	45.5	41.6
Total	48.9	52.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 2/28/2023
Case Descr AVLC West

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Building Co	Residential	80	80	80

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Pickup Truck	No	40		75	3200	0
Pickup Truck	No	40		75	3200	0
Pickup Truck	No	40		75	3200	0
Generator	No	50		80.6	3200	0
Crane	No	16		80.6	3200	0
Welder / Torch	No	40		74	3200	0
Tractor	No	40	84		3200	0
Tractor	No	40	84		3200	0
Tractor	No	40	84		3200	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Pickup Truck	38.9	34.9
Pickup Truck	38.9	34.9
Pickup Truck	38.9	34.9
Generator	44.5	41.5
Crane	44.4	36.5
Welder / Torch	37.9	33.9
Tractor	47.9	43.9
Tractor	47.9	43.9
Tractor	47.9	43.9
Total	47.9	50.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 2/28/2023
Case Descr AVLC West

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Paving	Residential	80	80	80

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	3200	0
Paver	No	50		77.2	3200	0
Paver	No	50		77.2	3200	0
Paver	No	50		77.2	3200	0
Roller	No	20		80	3200	0
Roller	No	20		80	3200	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	41.1	38.1
Paver	41.1	38.1
Paver	41.1	38.1
Paver	41.1	38.1
Roller	43.9	36.9
Roller	43.9	36.9
Total	43.9	45.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 2/28/2023
Case Descr AVLC West

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Architectur	Residential	80	80	80

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	3200	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	41.5	37.6
Total	41.5	37.6

*Calculated Lmax is the Loudest value.

APPENDIX G
VMT Analysis

Michael Baker INTERNATIONAL

We Make a Difference

TECHNICAL MEMORANDUM

To: Chandler Elliott, NorthPoint Development

From: Carla Dietrich, Michael Baker International
Dawn Wilson, Michael Baker International

CC: Eddie Torres, Michael Baker International

Date: November 30, 2023

Subject: Antelope Valley Logistics Center West VMT Assessment

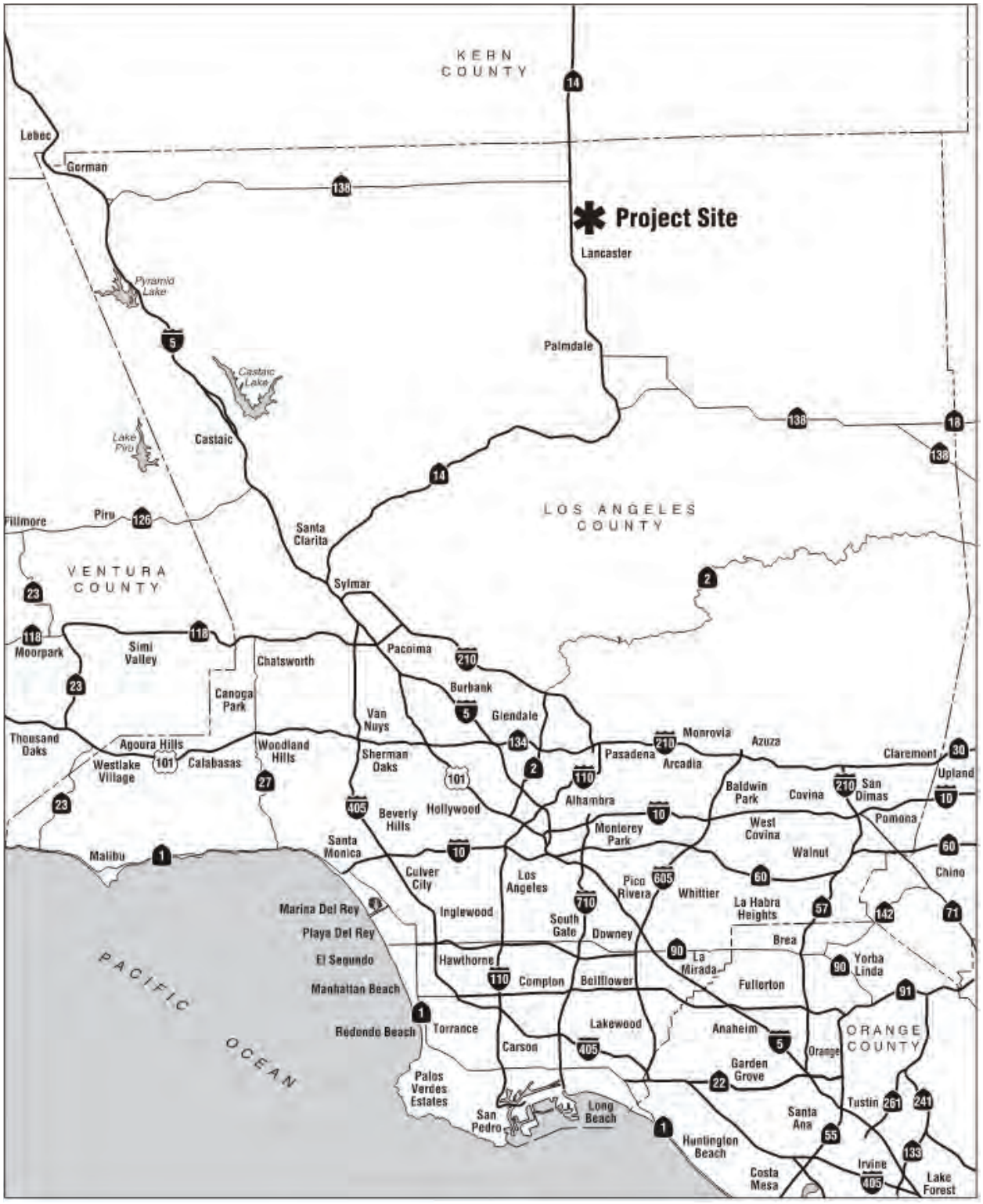
Introduction

The purpose of this memorandum is to document a vehicle miles traveled (VMT) assessment for the proposed Antelope Valley Logistics Center West Project (Project) in support of the transportation component of the California Environmental Quality Act (CEQA) analysis. The Project proposes two (2) 1,007,536 square foot speculative warehouse buildings on vacant land located in Los Angeles County (County), California north of the City of Lancaster. **Table 1** provides key project information. **Exhibit 1** shows the location of the Project and **Exhibit 2** shows the conceptual site plan. A Project traffic operations and site access analysis report is being prepared separate from this document.

Table 1: Project Information

Item	Description
Project Title	Antelope Valley Logistics Center West
Project Identifiers	Project No. PRJ2022-002897; Supervisorial District 5 CUP RPPL2022013992; RPPL2022013992; ENV RPPL2023000522
Project Location	Northern portion of Los Angeles County, in the geographic sub-region of the western tip of the Mojave Desert. Immediately east of SR-14, south of Avenue F, and adjacent to 20th Street West.
Assessor Parcel Numbers (APNs)	3118-015-010 and 3118-015-011
Travel Demand Model Traffic Analysis Zone (TAZ)	Southern California Association of Governments (SCAG) Regional Travel Demand Model (TDM) TAZ 20310400
Existing Use	The 121-acre Project site is fenced, vacant and undeveloped.
Proposed Use	The Project would include construction of two speculative industrial short-term storage warehouse buildings. Each new building is approximately 1,007,536 square-feet, which includes approximately 40,000 square feet of office space. The office space is ancillary to the warehouse use. Each building will have 82 truck loading docks, 222 trailer parking stalls, and 849 passenger vehicle parking spaces.
Employment	Multiple shifts are expected and dependent on tenant requirements. The Project may operate up to 24 hours a day, seven days a week, and employ up to approximately 1,000 people (total of 2,000 employees).
Site Area	Approximately 121 acres

Exhibit 1: Project Location



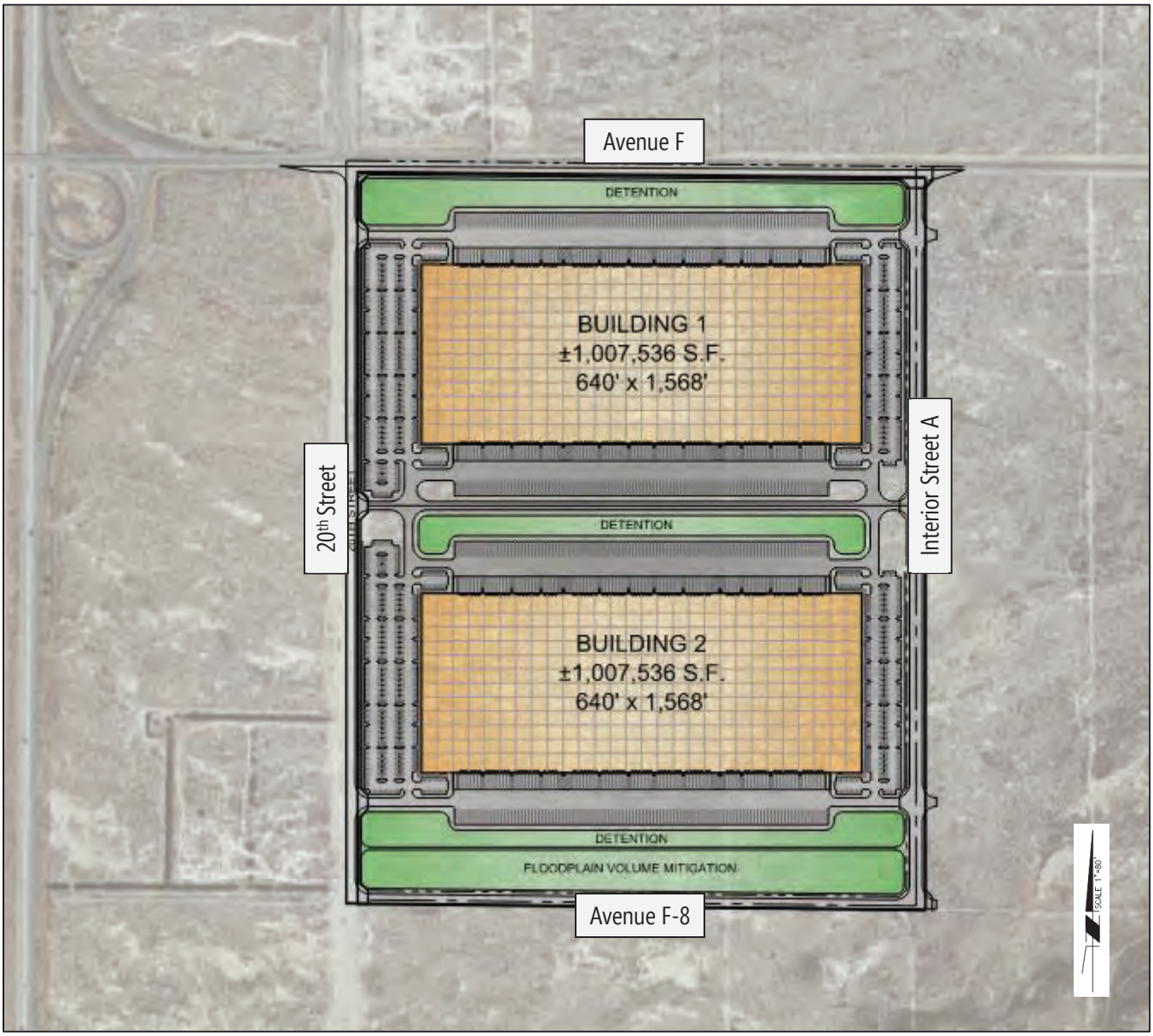
Source: Michael Baker International.

Exhibit 2: Project Area



Source: Michael Baker International.

Exhibit 3: Conceptual Site Plan



Source: NorthPoint Development.

Plan Consistency

The *Los Angeles County's Town & County - Antelope Valley Area Plan* (adopted on 7/16/2015) Land Use Policy Map identifies three economic opportunity areas (EOAs). The Project site is located within one of the EOAs and is designated/zoned Light Industrial (IL). The IL designation is intended for development of a broad range of industrial activities, including light manufacturing, assembly, warehousing, and distribution. The proposed warehouse land use is consistent with the IL designation and land use type identified in the Area Plan.

Analysis Guidelines

The *Los Angeles County Public Works Transportation Impact Guidelines*, July 23, 2020 *(County Guidelines)* have been utilized as the primary resource for this analysis. The analysis documented in this memorandum is consistent with the scoping agreement dated May 25, 2023, which was approved by County staff on June 20, 2023.

Project Trip Generation

The Project site trips were estimated using trip rates from the Institute of Transportation Engineers' (ITE) *Trip Generation Manual* (11th Edition). **Table 2** provides the trip generation rates for High Cube Warehouse Transload and Short-Term Storage Warehouse land use (ITE code 154, High Cube Transload and Short-Term Storage Warehouse) and Land Use Code 710 (General Office Building).

Table 2: Trip Generation Rates

Land Use	ITE Code	Vehicle Type Breakdown		Daily Trips Rate[1]	AM Peak Hour		PM Peak Hour	
					Rate	In / Out	Rate	In / Out
High Cube Transload and Short-Term Storage Warehouse	154	Passenger Cars	69.0%[2]	0.966 / KSF	0.055	77% / 23%	0.069	28% / 72%
		2 Axle Trucks	*6.8%[3]*	*0.095 / KSF*	*0.006*		*0.007*	
		3 Axle Trucks	*5.5%[3]*	*0.077 / KSF*	*0.004*	49% / 51%	*0.005*	47% / 53%
		4+ Axle Trucks	*18.7%[3]*	*0.262 / KSF*	*0.015*		*0.019*	
		Total Trucks	31.0%[2]	0.434 / KSF	0.025	-- / --	0.031	-- / --
		Total		1.40 / KSF	0.080	-- / --	0.100	-- / --
General Office Building	710	Passenger Cars	100%	10.84 / KSF	1.52	88% / 12%	1.44	17% / 83%

Sources: 1) Trip Rates - Institute of Transportation Engineer's (ITE) *Trip Generation Manual*, 11th Edition
2) Passenger Car/Truck Breakdown: ITE-South Coast Air Quality Management District's (SCAQMD) *High-Cube Warehouse Vehicle Trip Generation Analysis* (October 2016) (https://www.ite.org/pub/?id=a3e6679a%2De3a8%2Dbf38%2D7f29%2D2961becdd498).
3) Truck Type Breakdown: ITE-South Coast Air Quality Management District's (SCAQMD) Stakeholder Working Group presentation July 17, 2014 (https://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/finalswg071714backup.pdf?sfvrsn=2).

Note: KSF = Thousand square feet.

Office space is a typical component of a modern warehouse. Modern warehouse building office space generally consists of common areas including but not limited to reception space, breakrooms, conference rooms, warehouse bathrooms, shipping and receiving centers, employee health and wellness rooms, and learning centers. The *ITE Trip Generation Manual* indicates that the office or employee wellness areas are typically insignificant in proportion to the total building area. As outlined in the project description, the anticipated office space is 40,000 square-feet per building. It is anticipated that the office space for this Project will include common areas that would likely account for 25 to 50 percent of the 40,000 square feet of office area and are directly related to general warehouse operations. Furthermore, the office space is purely ancillary to the warehousing operation and would not be an additional use separate from the warehouse tenant.

A separate level of service and traffic operations report was also prepared for this Project. To prepare a conservative traffic operations analysis, the trip generation for the Project separated the office use for those additional office portions of the proposed buildings. The *ITE Trip Generation Manual* warehouse data has been reported for studies that include up to 10% of their square footage as office space. In the case of this Project, that would result in approximately 10,000 square feet per building. Each building contains 40,000 square-feet of proposed office space. Since ITE Land Use Code 154 accounts for office space of approximately 1%

of gross floor area, or approximately 10,000 square-feet, trips associated with remaining 30,000 square-feet of proposed office space were estimated using ITE Land Use Code 710.

Table 3 shows the trip generation calculations for the Project. The total estimated Project trips include 3,388 daily trips, 248 AM Peak Hour trips (192 inbound / 56 outbound), and 282 PM Peak Hour trips (78 inbound / 204 outbound).

Table 3: Project Trip Generation

Land Use	ITE Code	Intensity	Vehicle Type Breakdown		Daily Trips	AM Peak Hour			PM Peak Hour		
						Volume	In	Out	Volume	In	Out
Building 1											
High Cube Transload and Short-Term Storage Warehouse	154	977.536 KSF	Passenger Cars	69.0%	944	54	42	12	67	19	48
			2 Axle Trucks	*6.8%*	*93*	*6*	*5*	*1*	*7*	*2*	*5*
			3 Axle Trucks	*5.5%*	*75*	*4*	*2*	*2*	*5*	*2*	*3*
			4+ Axle Trucks	*18.7%*	*257*	*14*	*7*	*7*	*19*	*9*	*10*
			Total Trucks	31.0%	425	24	14	10	31	13	18
			Total		1,369	78	56	22	98	32	66
General Office Building	710	30.000 KSF	Passenger Cars	100.0%	325	46	40	6	43	7	36
Subtotal (Building 1)		**1,007.536 KSF**			**1,694**	**124**	**96**	**28**	**141**	**39**	**102**
Building 2											
High Cube Warehouse Transload and Short-Term Storage Warehouse	154	977.536 KSF	Passenger Cars	69.0%	944	54	42	12	67	19	48
			2 Axle Trucks	*6.8%*	*93*	*6*	*5*	*1*	*7*	*2*	*5*
			3 Axle Trucks	*5.5%*	*75*	*4*	*2*	*2*	*5*	*2*	*3*
			4+ Axle Trucks	*18.7%*	*257*	*14*	*7*	*7*	*19*	*9*	*10*
			Total Trucks	31.0%	425	24	14	10	31	13	18
			Total		1,369	78	56	22	98	32	66
General Office Building	710	30.000 KSF	Passenger Car	100.0%	325	46	40	6	43	7	36
Subtotal (Building 2)		**1,007.536 KSF**			**1,694**	**124**	**96**	**28**	**141**	**39**	**102**
Total (Both Buildings, 2,015,072 Square Feet)					**3,388**	**248**	**192**	**56**	**282**	**78**	**204**

Notes: 1) KSF = Thousand square feet.
2) Values may vary slightly due to rounding after rate calculation.
3) Each building contains 40 KSF of proposed office space. ITE Land Use Code 154 accounts for office space of approximately 1% of GFA, or approximately 10 KSF. Trips associated with remaining 30 KSF of proposed office space estimated using ITE Land Use Code 710.

Screening Criteria

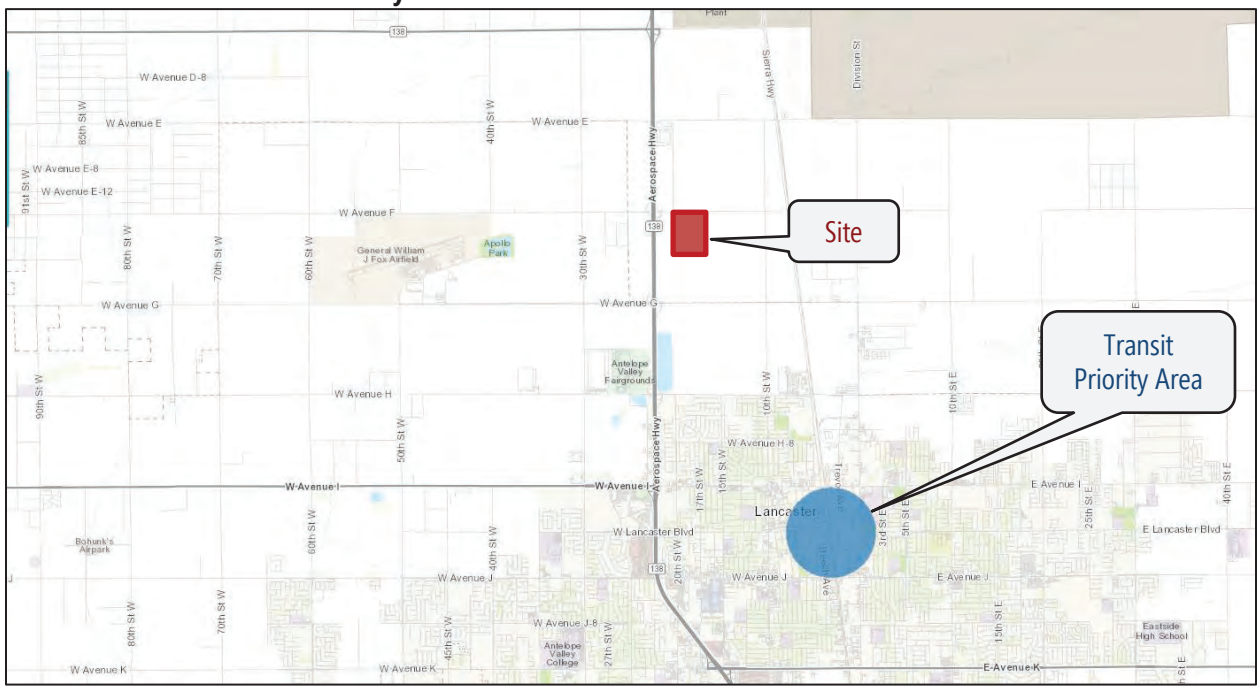
Land use projects that meet the *County Guidelines* screening thresholds identified in **Table 4** are assumed to result in a less-than-significant transportation impact under CEQA and do not require a detailed quantitative VMT assessment with a VMT calculation. As shown, the Project does not meet any of the Screening Criteria for land use projects, thus a **project-specific VMT assessment is required**.

Table 4: Screening Criteria for Land Use Projects Exempt from VMT Calculation

Screening Criteria		Project Evaluation	Result
3.1.2.1 – Non-Retail Project Trip Generation Screening Criteria	Does the development project generate a net increase of 110 or more daily vehicle trips?	Project is anticipated to generate more than 3,000 daily trips.	Does Not Meet
3.1.2.2 – Retail Project Site Plan Screening Criteria	Does the project contain retail uses that exceed 50,000 square feet of gross floor area?	The Project includes industrial (warehouse) uses only.	Does Not Meet
3.1.2.3 – Proximity to Transit Based Screening Criteria	Is the project located within a one-half mile radius of a major transit stop or an existing stop along a high-quality transit corridor?	**Exhibit 4** shows that the Project is not located with a Transit Priority Area.	Does Not Meet
3.1.2.4 – Residential Lane Use Based Screening Criteria	Are 100% of the units, excluding manager's units, set aside for lower income households?	Project does not include any residential housing.	Does Not Meet

Source: Screening Criteria obtained from *Los Angeles County Public Works Transportation Impact Guidelines* (July 23, 2020).

Exhibit 4: SCAG 2016 Transit Priority Areas



Source: https://gisdata-scag.opendata.arcgis.com/datasets/high-quality-transit-areas-hqta-2016-scag-region

Note: Blue area indicates High Quality Transit Areas.

Michael Baker INTERNATIONAL

VMT Analysis Methodologies

Analysis Tool

Through coordination with County staff, the County of Los Angeles VMT Tool was determined to be the appropriate analysis tool for use in calculating VMT. Version 1.0 of the Excel tool was utilized in the analysis. The signed VMT Tool User Agreement has been provided in **Attachment 1**.

Thresholds of Significance

Table 5 shows the impact criteria per the *County Guidelines*. As shown, the primary site use (warehouse) is not directly addressed in the guidance. Given the employment nature of the warehouse, it is recommended that the Office criteria is utilized where VMT per employee is analyzed. This is consistent with the Governor's Office of Planning and Research *Technical Advisory* (December 2018) guidance which states that "'vehicle miles traveled' refers to the amount and distance of automobile travel attributable to a project. Here, the term "automobile" refers to on-road passenger vehicles, specifically cars and light trucks." Given this guidance, the evaluation of automobiles via the VMT per employee metric (excluding heavy vehicles) is recommended for the Project.

Table 5: VMT Metrics and Impact Thresholds by Project Type

Project Type	VMT Metric	County Impact Threshold
Residential	VMT per capita	The project's residential VMT per capita would not be 16.8% below the existing residential VMT per capita for the Baseline Area in which the project is located.
Office	**VMT per employee**	**The project's employment VMT per employee exceeding would not be 16.8% below the existing employment VMT per employee for the Baseline Area in which the project is located.**
Regional Serving Retail	Total VMT	The project would result in a net increase in existing total VMT.
Land Use Plans	VMT per service population	The plan total VMT per service population (residents and employees) would not be 16.8% below the existing VMT per service population for the Baseline Area in which the plan is located.
Other Land Use Types	Varies	Contact Public Works to determine which of the above area an appropriate threshold of significance to be utilized.

Source: *County Guidelines*, Section 3.1.3. Impact Criteria

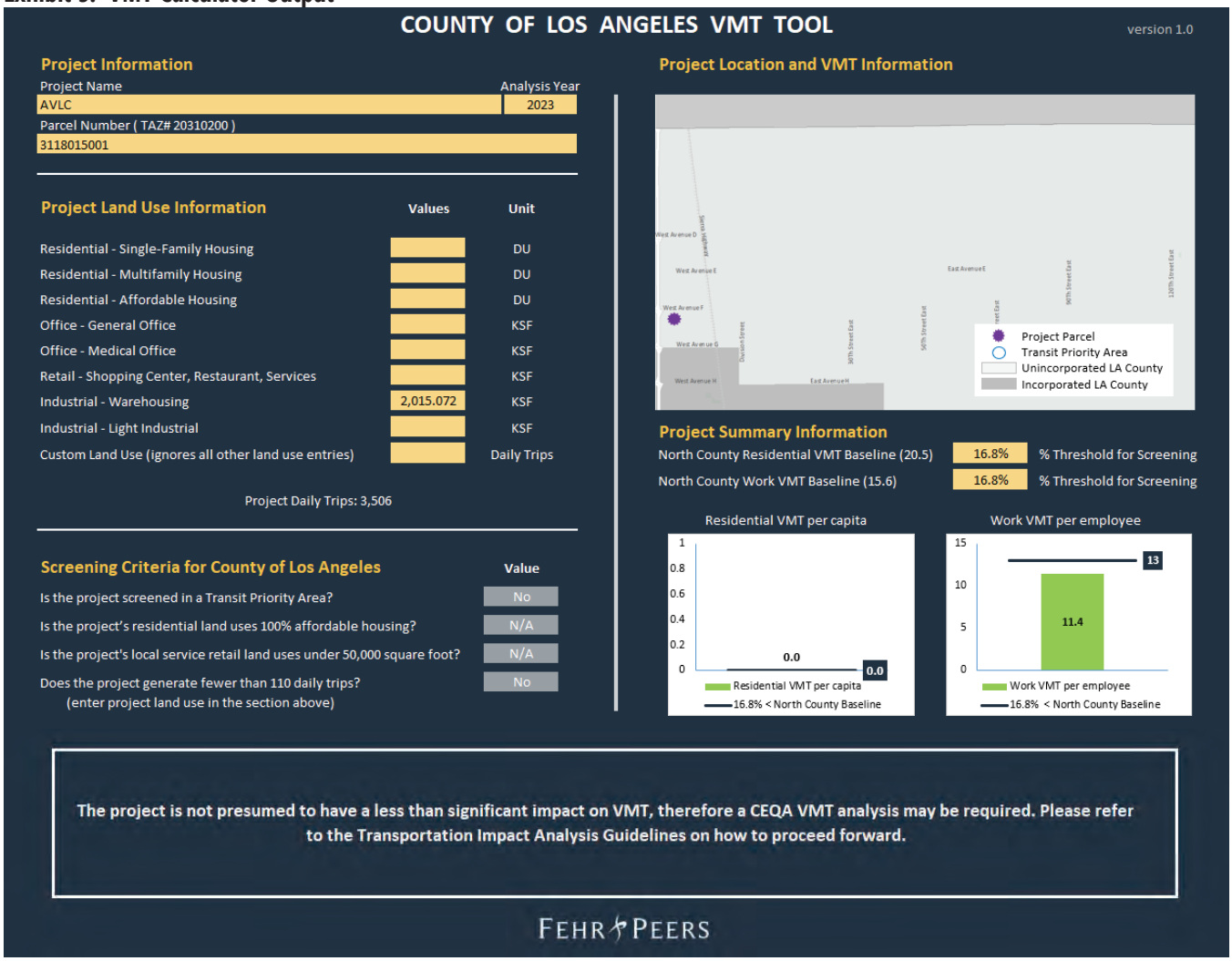
Project Level VMT Assessment

VMT Calculator Tool Results

Michael Baker utilized the County's VMT Tool to conduct the Project-specific analysis. The Project VMT calculation results are shown in **Exhibit 5** and summarized in **Table 6.** Inputs included the Project's APNs (3118-015-010 and 3118-015-011) and the Project size (2,015.072 thousand square feet of warehouse). The Project land use type is consistent with the Project description since the proposed office space is ancillary to the warehouse operations and is not an additional separate use. Coordination was conducted with the County to confirm consistency of this data input with the County's VMT Tool requirements.

The VMT evaluation was based on the North County region thresholds given the Project's location; therefore, the VMT impact threshold is 13.0 VMT per employee, or 16.8% of the North County Work VMT Baseline of 15.6 VMT per employee. The Project is estimated to generate 11.4 VMT per employee. A comparison of the Project VMT per employee (11.4 VMT per employee) to the County VMT Impact Criteria (13.0 VMT per employee) shows that the Project VMT is anticipated to be 12.3% below the threshold; therefore, **the Project is not anticipated to result in a significant transportation impact.**

Exhibit 5: VMT Calculator Output



Additionally, a screen capture of the VMT Tool Transit Priority Area Secondary Information excel file tab has been provided in **Attachment 2**.

Table 6: Project VMT Summary

Category	VMT Per Employee
North County Work VMT Baseline	15.6
North County Work VMT Impact Threshold (16.8% below Baseline)	13.0
Project Work VMT Per Employee	**11.4** **(12.3% below County Impact Criteria)**

Cumulative Analysis

As noted previously, the proposed warehouse land use is consistent with the land use type identified in the Area Plan and the project impact level analysis indicates no significant impact. Given these factors, the Project can be presumed to have a less-than-significant cumulative impact.

Conclusions

The VMT evaluation of the Antelope Valley Logistics Center West Project proposed in unincorporated Los Angeles County shows that the Project does not meet the screening criteria and thus a VMT assessment was required to determine whether the Project will result in a transportation impact under CEQA. Evaluation of the Project demonstrated that the Project VMT per employee does not exceed the County's threshold for North County VMT per employee. As such, **the Project is not projected to result in a significant transportation project impact; therefore, mitigation measures are not required. Additionally, the Project is anticipated to result in less-than-significant cumulative impacts.**

Attachment 1 – VMT Tool Signed User Agreement

County of Los Angeles VMT Tool User Agreement

The Los Angeles County Department of Public Works, with the assistance of its consultant, Fehr & Peers, developed the County of Los Angeles Vehicle Miles Traveled (VMT) Tool to estimate project-specific daily Residential VMT per capita and Work VMT per employee for land-use development projects. This application, the VMT Tool, has been provided to You, the User, to assess VMT outcomes of land-use projects within the County of Los Angeles (County). When the term "County" is used herein as a geographical descriptor, it shall refer to the unincorporated areas of Los Angeles County. In using the VMT Tool, You agree to be bound by all of the terms and provisions of this VMT Tool User Agreement (Agreement).

VMT Tool Application for the County of Los Angeles. The County's consultant calibrated the VMT Tool's parameters in 2020 based on the 2016 SCAG Travel Demand Model. However, this calibration process is limited to locations within the unincorporated areas of the County.

Limited License to Use. This Agreement gives You a limited, non-transferrable, non-assignable, non-exclusive, and revocable license to use and execute a copy of the VMT Tool on a computer system owned, leased, or otherwise controlled by You in Your own facilities, as set out below, provided You do not use the VMT Tool in an unauthorized manner, and that You do not republish, copy, distribute, reverse-engineer, modify, decompile, disassemble, transfer, or sell any part of the VMT Tool, and provided that You understand, agree to, and follow the terms of this Agreement. Your failure to follow any of the terms of this Agreement shall automatically terminate this license and Your right to use the VMT Tool.

Ownership. You understand and acknowledge that the County exclusively owns the VMT Tool, and shall continue to exclusively own it through Your use of it, and that no transfer of ownership of any kind is intended, or occurs, when allowing You to use the VMT Tool.

Warranty Disclaimer. In spite of the efforts of the County and Fehr & Peers, it is possible that some of the information contained in the VMT Tool may not be accurate. The VMT Tool, OUTPUTS AND ASSOCIATED DATA ARE PROVIDED "as is" WITHOUT WARRANTY OF ANY KIND, whether expressed, implied, statutory, or otherwise including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

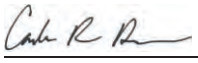
No Liability. It is understood that the VMT Tool is provided to You without charge. It is further understood and agreed that neither the County nor Fehr & Peers will be responsible or liable in any manner for Your use of, or Your inability to use, the VMT Tool, including, without limitation, for any information derived from its use, for any delays, inaccuracies, incompleteness, errors or omissions, or damages of any kind, arising out of Your use of the VMT Tool or with respect to the material contained in the VMT Tool, including, without limitation, any damage to Your computer, network, or system resulting from receiving, downloading, or using the VMT Tool. By using the VMT Tool, You hereby voluntarily and unconditionally waive and release all claims, responsibilities, liabilities, actions, damages of any kind, costs, and losses, known and unknown, against the County and Fehr & Peers related to or arising from Your use of the VMT Tool, including, without limitation, whether the VMT Tool improperly or incorrectly determined that You are exempt from doing a transportation impact analysis or any other environmental analysis, or made an improper or incorrect environmental review determination. In no

event shall the County or Fehr & Peers be responsible or liable to You or anyone else for, or have liability for any actual, special, direct, indirect, incidental or consequential or any other type or category of damages (including, without limitation, damages for loss of business profits or changes to businesses costs) or lost data or downtime, however caused, and on any theory of liability from the use of, or the inability to use, the VMT Tool, whether the data, and/or formulas contained in the VMT Tool are provided by the County or Fehr & Peers, or another third party, even if the County or Fehr & Peers have been advised of the possibility of such damages. Further, the County has no obligation to provide You with the VMT Tool or to continue to provide You with the VMT Tool in the future. If the County determines for any reason that the VMT Tool should no longer be used, the County may discontinue Your use of the VMT Tool in the County's sole discretion.

Term and Termination. This Agreement and License shall be governed by the laws of the State of California without regard to conflicts of law provisions and shall be effective as of the date set forth below and, unless terminated in accordance with the above or extended by written amendment to this Agreement, shall terminate on the earlier of the date that You are not making use of the VMT Tool or one year after the beginning of Your use of the VMT Tool.

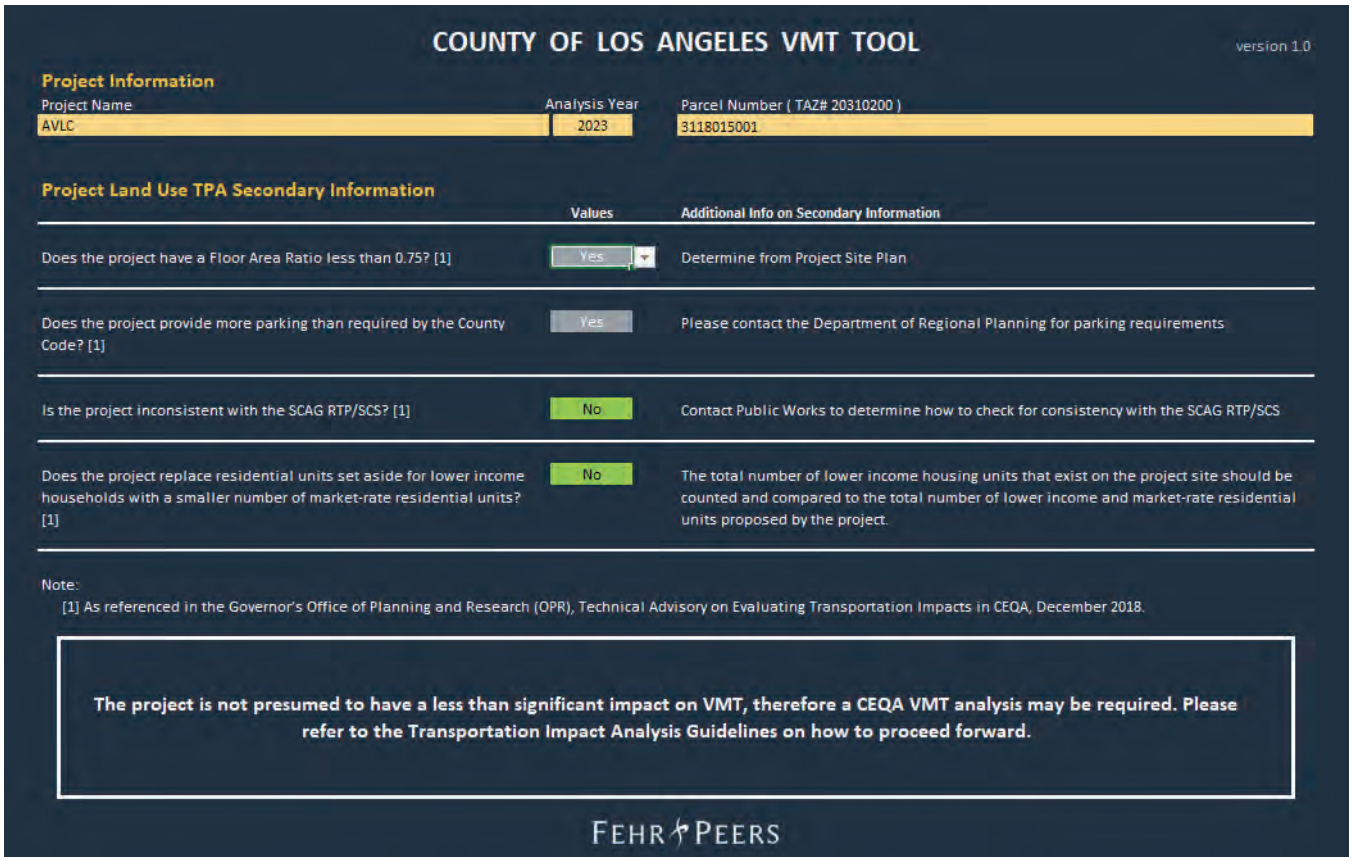
Termination for Convenience. The County may terminate this Agreement (and the User's right to use the VMT Tool), with or without cause, including for the County's convenience, by giving no less than thirty (30) days' written notice thereof to the User.

Print and sign below and submit to Los Angeles County Department of Public Works.

You, the User	
By:	
Print Name:	Carla R. Dietrich
Title:	Traffic Task Lead
Company:	Michael Baker International
Address:	3536 Concours, Suite 100, Ontario, CA 91764
Phone:	(909) 974-4908
Email Address:	cdietrich@mbakerintl.com
Date:	10/3/2023

Attachment 2 – VMT Tool TPA Secondary Information

VMT Tool TPA Secondary Information Screen Capture



COUNTY OF LOS ANGELES VMT TOOL

version 1.0

Project Information

Project Name	Analysis Year	Parcel Number (TAZ# 20310200)
AVLC	2023	3118015001

Project Land Use TPA Secondary Information

	Values	Additional Info on Secondary Information
Does the project have a Floor Area Ratio less than 0.75? [1]	Yes	Determine from Project Site Plan
Does the project provide more parking than required by the County Code? [1]	Yes	Please contact the Department of Regional Planning for parking requirements
Is the project inconsistent with the SCAG RTP/SCS? [1]	No	Contact Public Works to determine how to check for consistency with the SCAG RTP/SCS
Does the project replace residential units set aside for lower income households with a smaller number of market-rate residential units? [1]	No	The total number of lower income housing units that exist on the project site should be counted and compared to the total number of lower income and market-rate residential units proposed by the project.

Note:
[1] As referenced in the Governor's Office of Planning and Research (OPR), Technical Advisory on Evaluating Transportation Impacts in CEQA, December 2018.

The project is not presumed to have a less than significant impact on VMT, therefore a CEQA VMT analysis may be required. Please refer to the Transportation Impact Analysis Guidelines on how to proceed forward.

FEHR PEERS

APPENDIX H
Utilities Correspondence

LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager
1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

February 9, 2023

Ref. DOC 6818915

Ms. Tracey Raszewski
Consultant-Project Manager
Michael Baker International
5 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707

Dear Ms. Raszewski:

Will Serve Letter for Antelope Valley Logistics Center

The Los Angeles County Sanitation Districts (Districts) received your will serve letter request for the subject project on January 25, 2023. We offer the following comments regarding sewerage service:

1. The project area is outside the jurisdictional boundaries of the Districts and will require annexation into District No. 14 before sewerage service can be provided to the proposed development. For a copy of the Districts' Annexation Information and Processing Fee sheets, go to www.lacsd.org, under Services, then Wastewater Program and Permits and select Annexation Program. For more specific information regarding the annexation procedure and fees, please contact the undersigned.

2. The wastewater flow originating from the proposed project will discharge directly to the Districts' Rosamond Outfall Trunk Sewer, located in 20th Street West north of West Avenue F-8. The Districts' 78-inch diameter trunk sewer has a capacity of 66.9 million gallons per day (mgd) and conveyed a peak flow of 19.4 mgd when last measured in 2021. A 6-inch diameter or smaller direct connection to a Districts' trunk sewer requires a Trunk Sewer Connection Permit issued by the Districts. An 8-inch diameter or larger direct connection to a Districts' trunk sewer requires submittal of Sewer Plans for review and approval by the Districts. For additional information, please contact the Districts' Engineering Counter at (562) 908-4288, extension 1205.

3. The wastewater generated by the proposed project will be treated at the Lancaster Water Reclamation Plant, which has a capacity of 18 mgd and currently processes an average recycled flow of 13.9 mgd.

4. The expected average wastewater flow from the project, described in the application as a 2,800,000 square-foot warehouse and distribution center, is 70,000 gallons per day. For a copy of the District's average wastewater generation factors, go to www.lacsd.org, under Services, then Wastewater Program and Permits and select Will Serve Program, and click on the Table 1, Loadings for Each Class of Land Use link.

5. The Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is used by the Districts for its capital facilities. Payment of a connection fee may be required before this project is permitted to discharge to the Districts' Sewerage System. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining the impact to the Sewerage System and applicable connection fees, the Districts will determine the user category

(e.g. Condominium, Single Family Home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, the developer should contact the Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727.

6. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CAA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise the developer that the Districts intend to provide this service up to the levels that are legally permitted and to inform the developer of the currently existing capacity and any proposed expansion of the Districts' facilities.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2708 or at dcurry@lacsd.org.

Very truly yours,

Donna J. Curry

Donna J. Curry
Customer Service Specialist
Facilities Planning Department

DC:dc

cc: A. Schmidt
A. Howard

APPENDIX I
Water Supply Assessment

WATER SUPPLY ASSESSMENT

ANTELOPE VALLEY LOGISTICS CENTER - WEST (AVLC – WEST)

Prepared for:

NorthPoint Development
3315 N Oak Trafficway
Kansas City, MO 64116

Prepared by:

Michael Baker International
5 Hutton Center Drive, Suite 500
Santa Ana, CA 92707

Michael Baker
INTERNATIONAL

October 2023

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ACRONYMS AND ABBREVIATIONS

ac-ft	acre-feet
AFY	acre-feet per year
AVEK	Antelope Valley-East Kern Agency
AVGB	Antelope Valley Groundwater Basin
AVLC	Antelope Valley Logistics Center - West
AVRWMG	Antelope Valley Regional Water Management Group
AVSWCA	Antelope Valley State Water Contractors Association
CASGEM	California Statewide Groundwater Elevation Monitoring
CEQA	California Environmental Quality Act
Court	Superior Court of California
CWC	California Water Code
District 40	Los Angeles County Waterworks District 40
DWR	California Department of Water Resources
ESFR	Early Suppression, Fast Response
gpd	gallons per day
GPCD	gallons per capita per day
gpm	gallons per minute
IRWM	Integrated Regional Water Management
IS/MND	Initial Study/Mitigated Negative Declaration
LCID	Littlerock Creek Water District
MAWA	Maximum Applied Water Allowance
MOU	Memorandum of Understanding
QHWD	Quartz Hill Water District
RCSD	Rosamond Community Service District
SB	Senate Bill
SGMA	Sustainable Groundwater Management Act
SR	State Route

ACRONYMS AND ABBREVIATIONS (CONT.)

SWP	State Water Project
SWRCB	California State Water Resources Control Board
UWMP	Urban Water Management Plan
USBR	Bureau of Reclamation
WSCP	Water Supply Contingency Plan
WSA	Water Supply Assessment
WUCOLS	Water Use Classification of Landscape Species

1 INTRODUCTION

This Water Supply Assessment (WSA) was prepared for the Antelope Valley Logistics Center – West (AVLC – West/Project) pursuant to California Water Code (CWC) Section 10910, as amended by Senate Bill 610 (SB 610). It identifies sources of water supply for the Project to determine if supply is adequate to meet the Project's water demand. A WSA under SB 610 must demonstrate there is sufficient water supply for the next 20 years, based on normal, single-dry, and multiple-dry years, to meet the demand of the Project, plus existing and planned future use, including agricultural and manufacturing uses. The water supply and demand information presented covers a 20-year period, in increments of 5 years. The estimated water demands for the Project is 109 AFY, including demands from the warehouse space, office space, and landscape irrigation.

This WSA is included as part of the Initial Study/Mitigated Negative Declaration (IS/MND) prepared for the Project pursuant to the California Environmental Quality Act (CEQA). CWC Section 10911 requires that the WSA be included in any environmental document pursuant to California Public Resources Code Division 13.

To fully comply with the requirements of SB 610, this report follows the organization of the *Guidebook for Implementation of Senate Bill 610 and Senate Bill 221 of 2001* (Guidebook) developed by the California Department of Water Resources (DWR). Section 2 of this report provides a description of the Project and Sections 3 through 7 provide the WSA under SB 610.

Upon completion of this WSA, the Los Angeles County Waterworks District 40 (District 40), the likely water supplier for the Project, will provide a Notice of Determination for if adequate water supplies are available for the Project. This will be included into the Project's environmental documentation. A brief summary of District 40 and its service area is included in Section 4.1.1.

Consistent with the provisions of SB 610, neither this WSA nor its approval shall be construed to create a right or entitlement to water service or any specific level of water service, and shall not impose, expand, or limit any duty concerning the obligation of District 40 to provide certain service to its existing customers or to any future potential customers.

This WSA does not constitute a will-serve, plan of service, or agreement to provide water service to the Project, and does not entitle the Project, Project Applicant, or any other person or entity to any right, priority or allocation in any supply, capacity, or facility. To receive water service, the Project will be subject to an agreement with District 40, together with any and all applicable fees, charges, plans and specifications, conditions, and any and all other applicable District 40 requirements in place and as amended from time to time. Nor does anything in the WSA prevent or otherwise interfere with District 40's discretionary authority to declare a water shortage emergency in accordance with the CWC.

2 PROJECT DESCRIPTION

2.1 Project Location

The Antelope Valley is located in the Northern portion of Los Angeles County, in the geographic sub-region of the western tip of the Mojave Desert and is situated between the Tehachapi, Sierra Pelona, and the San Gabriel Mountains as shown in **Figure 1**. Cities surrounding the area include the City of Lancaster to the south, City of Rosamond to the North, and unincorporated Los Angeles County to the east and west.

The Project site is located in the unincorporated Lancaster/Antelope Valley area. It is situated immediately east of State Route 14 (SR-14), south of Avenue F, and adjacent to 20th Street West as shown in **Figure 2**.

2.2 Project Characteristics

The Project includes construction of two speculative industrial short-term storage warehouse buildings on approximately 121 acres. Each new building consists of approximately 1,007,536 square feet building footprint, which includes approximately 40,000 square feet of office space. Each building will have dedicated 82 truck loading docks, 222 trailer parking stalls, and 861 passenger vehicle parking spaces as shown in **Figure 3**.

To provide access to the Project site, W Avenue F, 20th Street W, and Avenue F-8 will be partially improved along the northly property boundary, westerly property boundary, and southernly boundary, respectively, and full improvements of a new proposed public road will be constructed on the east side of the property. The Project includes ancillary improvements such as landscaping and utility work.

The Project also includes landscaping improvements that will require irrigation throughout the year. The current plan identifies a significant number of trees and shrubs along the building and throughout the parking areas. Decomposed granite/rock is proposed as the groundcover. Plant species proposed are in accordance with the LACo Region Planning shade requirements and approved species list. Most are classified as low water per Water Use Classification of Landscape Species (WUCOLS) high desert region. The proposed irrigation method is bubblers/root water systems.

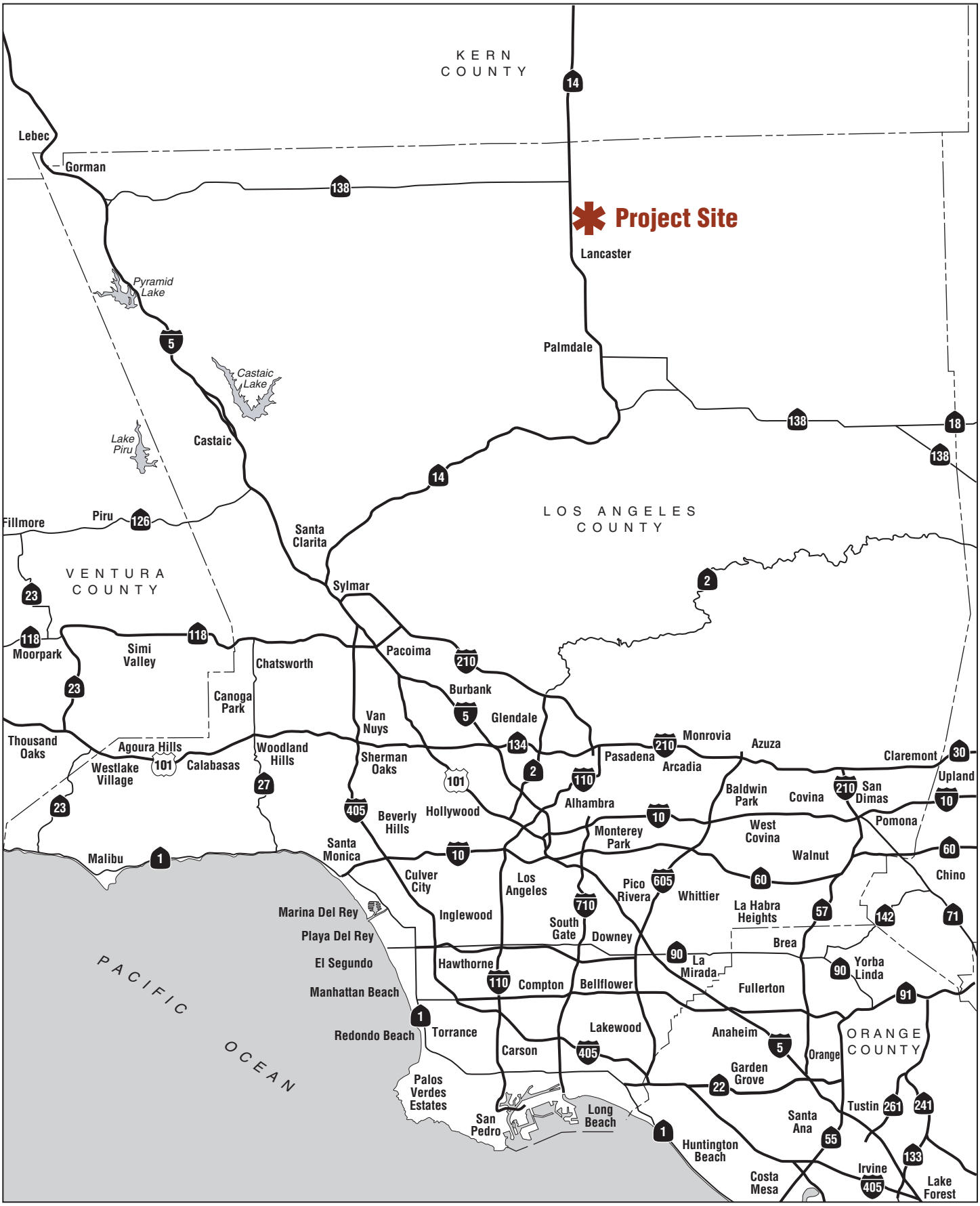
The Project also includes ancillary improvements such as utility work.

2.3 Environmental Setting

The Project site is situated in a geographic sub-region of the southwestern Mojave Desert known as Antelope Valley. The region is commonly referred to as the “High Desert” due to its approximate elevation of 2,900 ft above sea level. The Mojave Desert is bounded to the west by the Tehachapi Mountains and to the south by the San Gabriel and San Bernardino Mountains. The Project site and surrounding area are relatively flat. The site is fenced, vacant, and undeveloped; has not had any disturbance to date; and is void of any improved structures.

Hot summers, cool winters, low humidity, infrequent precipitation, and generally clear skies characterize the climate of the Antelope Valley area. According to the NOAA Weather Station Lancaster WM J Fox Fld, CA US USW 00003159 data ranging from 1991 to 2020, the daily low temperatures in winter range from 29.3 °F to 37.1 °F. The daily high temperatures in summer range from 86.9 °F to 98.6 °F in the summer. The mean annual rainfall is recorded at 6.81 inches per year, snowfall is typically 0 inches per year Additionally, humidity rarely exceeds 50%.

The J Fox Fld weather station is located approximately 8 miles to the east of the project site, adjacent to the Apollo Community Regional Park at 4555 W Ave G, Lancaster, CA 93536.



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ANTELOPE VALLEY LOGISTICS CENTER – WEST (AVLC – WEST) PROJECT

Regional Map

Figure 1



Source: Google Earth Pro, December 2022

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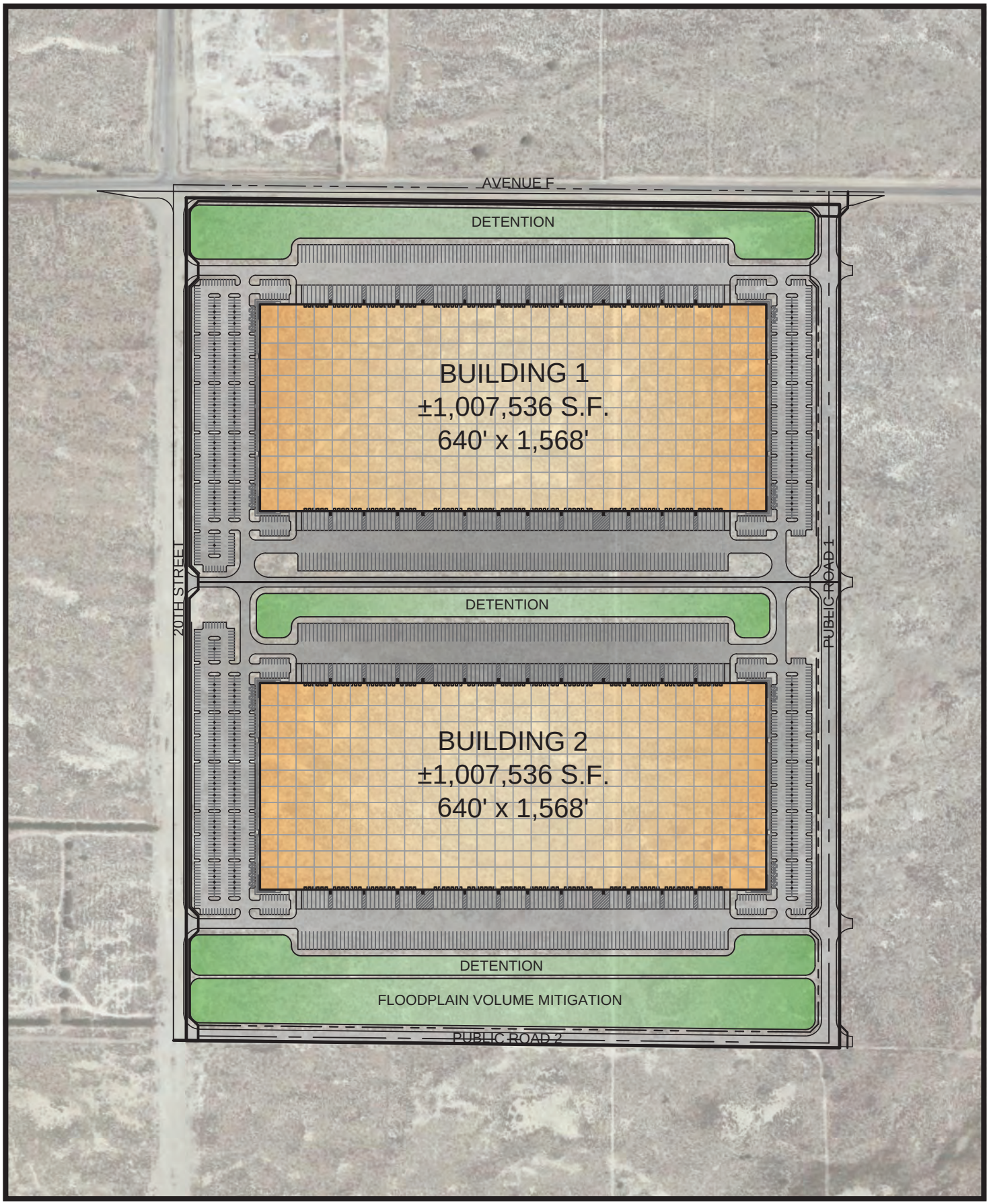
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ANTELOPE VALLEY LOGISTICS CENTER – WEST (AVLC – WEST) PROJECT

Site Vicinity

Figure 2



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ANTELOPE VALLEY LOGISTICS CENTER – WEST (AVLC – WEST) PROJECT

Conceptual Site Plan

Figure 3

2.4 Proposed Warehouse Building

As noted previously, each industrial short-term warehouse building consists of approximately 1,007,536 square-foot building footprint, which includes approximately 40,000 square feet of office space. These two buildings will occupy the majority of the Project site with approximately a 38% floor area ratio. Each building will have a maximum height of 49 feet and will be equipped with an Early Suppression, Fast Response (ESFR) fire suppression system and a fire alarm system to meet local code and requirements.

Additionally, the warehouse buildings are proposed to have approximately 566,712 square feet of irrigated landscaping. It should be noted that stormwater detention/floodplain mitigation will not require irrigation.

2.5 Proposed Warehouse Operations

Each industrial short-term warehouse building is being designed and built on a speculative basis with the intended function as a short-term storage warehouse, operating up to 24 hours a day, 7 days a week, and employing up to approximately 1,000 people (total of 2,000). The facility will receive products from vendors and other warehouses. Products will be stored in different storage types (mainly traditional pallet racking systems and shelving), providing the capability to fulfill customer orders and sort them to downstream transportation connections. Cages and pallets coming from inbound operations will be sent towards drop zones with forklifts or Powered Industrial Trucks to perform the stowing process onto the storage system (e.g., very narrow aisle pallet racks, shelving, etc.) for short-term storage.

3 WSA SUBJECT TO SENATE BILL 610

SB 610 seeks to improve the link between water supply availability and land use planning for large development projects. If the project is subject to the California Environmental Quality Act (CEQA), and if it is defined as a "project" defined by CWC Section 10912, a WSA must be prepared.

The following sections address the questions that must be answered by a WSA:

- Is the Project subject to CEQA?
- Is it a "project" as defined by CWC Section 10912?
- Is there a public water system to serve the Project?
- Is there a current Urban Water Management Plan (UWMP) that accounts for the Project demand?
- Is the projected water supply sufficient for the Project?

3.1 Is the Project Subject to CEQA?

CWC Section 10910 states:

(a) Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act Division 13 (commencing with Section 21000) of the Public Resources Code, under Section 21080 of the Public Resources Code shall comply with this part.

The Project will undergo environment review pursuant to the requirements of CEQA.

3.2 Is it a "Project" as Defined by CWC Section 10912?

CWC Section 10912 states:

For the purposes of this part, the following terms have the following meanings:

(a) "Project" means any of the following:
- *(1) A proposed residential development of more than 500 dwelling units.*
- *(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.*
- *(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.*
- *(4) A proposed hotel or motel, or both, having more than 500 rooms.*
- *(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.*
- *(6) A mixed-use project that includes one or more of the projects specified in this subdivision.*
- *(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.*

(b) If a public water system has fewer than 5,000 service connections, then "project" means any proposed residential, business, commercial, hotel or motel, or industrial development that would account for an increase of 10 percent or more in the number of the public water system's existing service connections, or a mixed-use project that would demand an amount of water equivalent to, or greater than, the amount of water required by residential development that would represent an increase of 10 percent or more in the number of the public water system's existing service connections.

The Project is a commercial development that consists of approximately 2,000,000 ft^2. Therefore, it is considered a "project" under CWC Section 10912.

3.3 Is There a Public Water System to Serve the Project?

CWC Section 10912 states:

(c) "Public water system" means a system for the provision of piped water to the public for human consumption that has 3,000 or more service connections. A public water system includes all of the following:

(1) Any collection, treatment, storage, and distribution facility under control of the operator of the system which is used primarily in connection with the system.

(2) Any collection or pretreatment storage facility not under the control of the operator that is used primarily in connection with the system.

(3) Any person who treats water on behalf of one or more public water systems for the purpose of rendering it safe for human consumption.

The Project is not located in an area that is currently serviced by a public water system. The Project Site is located approximately 0.6 miles from District 40's service boundary and approximately 1.5 miles from the nearest District 40 infrastructure. Therefore, the Project will require a separate Local Agency Formation Commission (LAFCO) process to annex this area into District 40. A description of District 40 and its service area is included in Section 4.1.1.

The Project can be served from one of following water sources:

- Served by District 40 through a new service connection. This will require construction of a new pipeline from Ave. H and 20th St. W to the Project, or from Ave. G and 30th St. W to the Project.
- Pumped from a new on-site groundwater well. This will require drilling a new well and/or erection of a new water storage tank at the Project site.

3.4 Is There a Current UWMP that Accounts for the Project Demand?

CWC Section 10910 states:

(c)

(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most

recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).

(2) *If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*

(3) *If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.*

(4) *If the city or county is required to comply with this part pursuant to subdivision (b), the water assessment for the project shall include a discussion with regard to whether the total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses.*

There is no current UWMP, including District 40's 2020 UWMP, that accounts for the projected water demand associated with the Project. Therefore, a discussion of the water supplies from the potential sources is included in this WSA and is presented in Sections 4 through 7. District 40's Water Management Plans, including its 2020 UWMP, can be found at https://pw.lacounty.gov/wwd/web/Publications/WMP.aspx.

It should also be noted that when the 2020 UWMP was prepared, California was in its 4th consecutive year of drought, and has just recovered from nearly 10 consecutive years of drought. Future UWMPs may consider evaluating the multiple dry water years differently to account for the uncertainty of future drought conditions and durations.

4 WATER SUPPLY

4.1 District 40 Water Supply

CWC Section 10910 states:

(d)

(1) The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.

(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall be demonstrated by providing information related to all of the following:

(A) Written contracts or other proof of entitlement to an identified water supply.

(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.

(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.

(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.

4.1.1 District 40 System Description

The Los Angeles County Waterworks (District 40) was formed under CWC Division 16 to supply water throughout the Antelope Valley area. The District is operated by the Los Angeles County Public Works, Waterworks Division and is governed by the Los Angeles County Board of Supervisors. The District originally comprised of 8 regions and serves customers in Lancaster, Palmdale, and the unincorporated communities of Pearblossom, Littlerock, Sun Village, Rock Creek, Northeast Los Angeles County, and Lake Los Angeles. In November 1993, the 8 regions consolidated into a single district. District 40 service area is approximately 232 square miles.

4.1.2 District 40’S Existing Water Supply

District 40’s water supply is sourced from a combination of purchased imported water and groundwater. District 40 purchases its imported water from the Antelope Valley-East Kern Water Agency (AVEK) and is AVEK’s largest municipal customer.

AVEK is a regional water wholesaler that supplies surface water to portions of Los Angeles, Kern, and Ventura County. The majority of AVEK’s water is received as imported water from the State Water Project (SWP). AVEK has estimated that it receives 58% of its total water supplies from the SWP, through DWR, in an average year (District 40 2021/2020 UWMP). AVEK's total allotment from the SWP, also referred to as Table A water, is 144,844 ac-ft per year (AFY). A

copy of the most recent water lease agreement between District 40 and AVEK can be found in District 40's 2020 UWMP. Per the agreement, any "carry over" water, water allocated to District 40 but is not used in a given year, must be transferred to District 40 (2020 UWMP).

District 40's groundwater is drawn from the underlying Antelope Valley Groundwater Basin (AVGB). Groundwater from the AVGB is an important source and has historically been District 40's secondary supply source (2020 UWMP). The AVGB is described in detail in the following section. A summary of District 40's existing water supply and quantities in 2020 is provided in **Table 1**.

It should be noted that the supply tables provided herein are based on the best available information as of October 2021.

Table 1. 2020 UWMP Table 6-8. Retail: Water Supplies – Actual (AFY).

Water Supply	Additional Detail on Water Supply	2020	
		Actual Volume	Water Quality
Purchased	AVEK	31,552	Drinking Water
Groundwater	Antelope Valley Groundwater Basin	14,266	Drinking Water
Recycled Water	Refill lake at Apollo Park &City of Lancaster	361	Recycled Water
	Total	**46,179**	

Source: 2020 UWMP

4.1.3 District 40'S Projected Water Supply

To meet the demands associated with future growth, District 40 has identified ways it will meet future demands with increased water conservation reduction actions through the Districts Water Shortage Contingency Plan in the event of a severe drought scenarios. District 40's projected water supply is summarized in **Table 2**.

Table 2. 2020 UWMP Table 6-9. Retail: Water Supplies – Projected (AFY).

Water Supply	Additional Detail on Water Supply	2025 Reasonably Available Volume	2030 Reasonably Available Volume	2035 Reasonably Available Volume	2040 Reasonably Available Volume	2045 Reasonably Available Volume
Purchased Water or Imported Water		57,300	55,800	54,200	52,700	52,700
Ground-water		23,298	23,298	23,298	23,298	23,298
Purchased Water or Imported water	New supply from AVEK	1,733	1,733	1,733	1,733	1,733
Recycled Water		764	902	1,102	1,302	1,302
	Total	**83,095**	**81,773**	**80,033**	**79,033**	**79,033**

Notes:

1. A normal year is assumed. Doesn't Include rights to carry over water. Imported water return flows are calculated based on 2020 imported water use. As of 2020, the groundwater adjudication judgment provides non-overlying production rights of 6,789 ac-ft and approximately 3,500 ac-ft of unused Federal Reserve Rights. Return flows of 39% is based on District 40's use of SWP water supply (10,400 ac-ft). District 40 also leases approximately 2,600 ac-ft of groundwater rights from AVEK for a total of 23,298 ac-ft.
2. Groundwater does not include return flows from new supply. It is expected that new supply will generate return flows for District 40 but are not shown for simplicity.
3. Return flows from new supply are not included for clarity in interpreting Supply and Demand Assessment DWR tables 7-2, 7-3, and 7-4 of District 40's 2020 UWMP.
4. AVEK Table A SWP Allocation is 144,844 ac-ft, and AVEK indicated that the long-term average is 58% of their Table A allocation which is 84,010 ac-ft. District 40 typically purchases about 70% of that volume, which is 58,800 ac-ft.
5. Recycled water supplies are shown to equate to recycled water demands, but there is greater reasonably available volume of recycled water. However, there are no additional uses for the recycled water.

Source: 2020 UWMP

4.2 Groundwater Supply

CWC Section 10910 states:

(f) If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water assessment:

(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.

(2) A description of any groundwater basin or basins from which the proposed project will be supplied. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as

overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long-term overdraft condition.

(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(5) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project. A water assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water demand associated with the project was addressed in the description and analysis required by paragraph (4) of subdivision (b) of Section 10631

4.2.1 Antelope Valley Groundwater Basin Description

The AVGB is located in the western Mojave Desert and covers a surface area of 1,580 square miles in Kern, Los Angeles, and San Bernardino Counties. The basin underlies an extensive alluvial valley and consists of two main aquifers: an upper aquifer and a lower aquifer. The upper aquifer, which is the primary source of groundwater for the valley, is generally unconfined whereas the lower aquifer is generally confined. An unconfined aquifer is an aquifer which has the water table as its upper boundary. Unconfined aquifers occur near the ground surface. A confined aquifer is an aquifer that is bounded above and below by confining beds. Confined aquifers generally occur at significant depth below the ground surface (USBR 2021). The average annual rainfall for the basin ranges from 5 to 10 inches Recharge to the basin is primarily from runoff from surrounding mountains and hills. The estimated storage of the basin is 70,000,000 ac-ft (DWR 2004).

4.2.2 Basin Adjudication

In December 2015, the Superior Court of California (Court) issued a ruling for the adjudication of groundwater in the Antelope Valley. In an adjudicated area, the groundwater rights of all the overlying parties and appropriators are determined by the Court. Overlying parties are property owners that possess land above the aquifer. Appropriators, also called non-overlying parties, encompass public users, such as municipalities, that are entitled to the use of the surplus of water available after overlying parties' rights are satisfied.

The adjudication identified the basin in a state of overdraft, which it seeks to resolve through four phases of evaluation:

- Defined the boundaries of the basin
- Considered hydraulic connection throughout the basin
- Established the safe yield
- Quantified groundwater production (Todd Groundwater 2019)

The primary method for overcoming the overdraft is the establishment of the safe yield during Phase 3. The adjudication has determined, in the Phase 3 trial decision, that the minimum safe yield is 110,000 AFY, which will vary annually depending on the volume of water that is imported.

This is only a significantly simplified summary of the basin's adjudication; the complete adjudication judgement is included in **Appendix A**. District 40's ability to produce groundwater is subject to the 2015 judgement. District 40 has non-overlying production rights of 6,789 ac-ft, approximately 3,500 ac-ft of unused federal reserve rights and return flows equivalent to 39% of the District 40's 5-year average of purchased SWP water supply (2020 UWMP). Federal reserve rights are allocations of water set aside by the federal government when it reserves land for the public domain (SWRCB 2020). Return flow is water that is returned to the surface or groundwater. A summary of District 40's groundwater rights, and other groundwater sources is provided in **Table 3**.

Table 3. 2020 UWMP Table 6-1A. Groundwater Volumes Available.

Description of Right	District 40 Annual Groundwater Right (ac-ft)
Non-overlying production right	6,789
55% of the unused Federal Reserve Right	3,500
Imported water return flows (39% of previous 5-year average of imported supplies	10,400
AVEK lease	2,600
Total	**23,289**

Note: Non-overlying production right as provided by the Adjudication. Approximate values for Unused Federal Reserve Right and AVEK lease. Imported Water return flows are actuals as of 2020.
Source: LACWD's 2020 UWMP

As part of the 2015 judgment, a "Watermaster" board was appointed by the Court to implement and enforce the judgment. The Watermaster board is empowered to impose a replacement fee on any party that pumps more than its allocated right. The Watermaster board is composed of one representative each from AVEK and District 40, one other public water supplier representative, and two landowner representatives (2020 UWMP).

4.2.3 Regional Groundwater Management

Integrated Regional Water Management (IRWM) is a collaborative effort to best manage all aspects of water resources in a region. Funding programs for IRWM were created when State voters passed Proposition 50 in November 2002, Proposition 84 in November 2006, and Proposition 1 in 2014. In an effort to implement IRWM in the Antelope Valley region, a number of agencies joined together to form the Antelope Valley Regional Water Management Group

(AVRWMG). In 2007, they signed an MOU and developed the Antelope Valley IRWM Plan. The plan has been updated in 2013 and 2019. Members of the ARWMG include District 40, AVEK, Antelope Valley State Water Contractors Association (AVSWCA), City of Lancaster, City of Palmdale, Littlerock Creek Water District (LCID), Los Angeles County Sanitation Districts (LACSD) 14 and 20, Palmdale Water District (PWD), Quartz Hill Water District (QHWD), and Rosamond Community Service District (RCSD) (AVRWMG 2019).

4.2.4 Sustainable Groundwater Management Act

The Sustainable Groundwater Management Act (SGMA) was signed into California state law in 2014. It sets a framework for local groundwater agencies to sustainably protect and manage groundwater as a long-term resource.

The California Statewide Groundwater Elevation Monitoring (CASGEM) Program, developed in response to legislation enacted in 2009, tracks and monitors groundwater levels to help achieve the goals set out in SGMA. The CASGEM Program also ranks groundwater basins statewide based on importance and groundwater reliance. The CASGEM Program has ranked the AVGB as low priority (2020 UWMP). Although the AVGB is a low-priority basin per CASGEM, District 40 continues to follow certain CASGEM guidelines, including maintaining reporting requirements, to monitor conditions of the basin.

SGMA directs DWR to identify groundwater basins and sub-basins in conditions of critical overdraft. DWR identified such basins in Bulletin-118 (DWR 2004). DWR issued an updated draft list of critically overdrafted basins in February 2019 (DWR 2019).

The AVGB is not on the list because it is an adjudicated basin (2020 UWMP).

4.2.5 Historical Groundwater Pumping

District 40's groundwater pumping over the last five years is presented in **Table 4**.

Table 4. 2020 UWMP Table 6-1. Retail: Groundwater Volume Pumped (AFY).

Groundwater Type	Location or Basin Name	2016	2017	2018	2019	2020
Alluvial Basin	Antelope Valley Groundwater Basin	16,002	17,397	17,274	12,813	14,266
	Total	**16,002**	**17,397**	**17,274**	**12,813**	**14,266**

Source: 2020 UWMP

4.2.6 Regional Groundwater Supply Reliability

Although District 40 does have considerable groundwater supplies allocated to it, it does not yet have the infrastructure available to extract all of this supply. Additional groundwater extraction capacity would be needed to reach these ideal groundwater production values. Additionally, incoming changes to drinking water standards, particularly for PFAS and Chromium-6, will significantly impact District 40's existing groundwater extraction capacity.

5 WATER SUPPLY RELIABILITY

5.1 Dry Years Supply

CWC Section 10910 (c) (3) States:

> *(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.*

To prepare for dry years when water demand cannot be met by normal supply, District 40 works to increase its local groundwater supplies through carryover water reserved in the basin. District 40 works with AVEK to use more surface water during wet years to allow AVEK to recharge and "bank" additional groundwater supplies. Water banking involves storing water in the aquifer during wet years and drawing it out during dry years. This opportunity exists inside and outside of the Antelope Valley. However, water banking inside the Antelope Valley is preferred because it minimizes the risks of conveyance interruptions (2020 UWMP).

AVEK has developed and is planning several groundwater banks to maximize the use of its SWP supply, including the Westside Water Bank, the Eastside Water Bank, the Upper Amargosa Creek Recharge Project, and the High Desert Water Bank.

5.2 AVEK's Supply Reliability

AVEK's supply reliability is important to understand because it will account for roughly 65% of District 40's supply between 2020 and 2040. AVEK's supply reliability begins by defining AVEK's average year supply. The average year supply is based on available records and is the average of the supplies between 1922 and 2003. In an average year, AVEK receives 58% of its Table A amount. Of that, 70% is available to District 40, which is roughly 58,800 AFY. For all years, it is assumed that District 40 will receive 70% of AVEK's Table A amount. Single-dry and multiple-dry year supplies can then be compared to the average year supply to evaluate the supply reliability (2020 UWMP).

When evaluating future supply, AVEK will compare the future supply to the supplies provided between 1988 and 1992, since this period represents AVEK's driest five-consecutive year historical sequence (2020 UWMP). Supplies from this period, along with the average year supply are presented in **Table 5** and are used in the evaluation presented in Section 7.

It should also be noted that when the 2020 UWMP was prepared, California was in its 4th consecutive year of drought, and has just recovered from nearly 10 consecutive years of drought. Future UWMPs may consider evaluating the multiple dry water years differently to account for the uncertainty of future drought conditions and durations.

Table 5. 2020 UWMP Table 7-1. Retail Basis of Water Year Data (Reliability Assessment).

Year Type	Base Year	Volume Available (ac-ft/yr)[a]	Percentage of Table A SWP Supply[b]
Average Year	1922-2003 avg	58,800	58%
Single-Dry Year	1977	5,000	5%
Consecutive Dry Years 1st Year	1988	12,500	12%
Consecutive Dry Years 2nd Year	1989	32,700	32%
Consecutive Dry Years 3rd Year	1990	13,500	13%
Consecutive Dry Years 4th Year	1991	25,900	26%
Consecutive Dry Years 5th Year	1992	18,200	18%

[a]Volume available to LACWD from AVEK's supply, which is typically 70% of AVEK's available supply from SWP. This does not include AVEK's banked groundwater supply. Volumes are rounded to the nearest 100.
[b]This is the percentage of Table A SWP supply for AVEK.
Source: 2020 UWMP

District 40 has a considerable groundwater supply allocated to it; however, it does not yet have infrastructure available to extract all the allocated supply. Additional groundwater extraction capacity is needed to reach the planned groundwater production values. Furthermore, District 40's groundwater extraction capacity will be impacted due to the imminent changes to drinking water standards, particularly related to PFAS and Chromium-6.

District 40 has developed a Water Shortage Contingency Plan (WSCP) that proposes to increase its infrastructure in response to the growing demands and changing regulations. District 40 will implement measures in their WSCP to meet future gaps between water supply and demand during drought scenarios.

6 WATER DEMAND

6.1 Project Demand

Water demand for the Project consists of warehouse, office, and irrigation uses. The water demand was calculated based on demand factors for each land use. To conserve potable water use, the Project should consider utilizing recycled water for non-drinking construction activities such as dust control and soil compaction. The Lancaster Water Reclamation Plant is located 2 miles north of the Project site. Table 6 is summarizing the estimated water use for irrigation based on Maximum Applied Water Allowance (MAWA).

Table 6 Estimated Water Use for Irrigation

Valve #	Description	Water Use	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (ft^2)	ETAF x Area (ft^2)	Estimated Total Water-Use (ETWU) (Gal/Year)
1	BUILDING 1 - MODERATE	MOD	0.5	Bubbler	0.81	0.62	211,399	130,493	575,2388
2	BUILDING 2 - MODERATE	MOD	0.5	Bubbler	0.81	0.62	355,313	219,329	966,8464
						Total	566,712	349,822.	15,420,852

According to Table 6, estimated total yearly water use for irrigation is 15,420,852 (daily water use of 42,249 gallons/day) Therefore the water demand factor for irrigation is 74.6 gpd/kft^2 (42,249/566.71). The calculated water demand for the Project is summarized in **Table 7**.

Table 7. Project Demand

Land Use	Use Area (ft^2)	Water Demand Factor (gpd/kft^2)	Water Demand (gpd)	Water Demand (AFY)
Warehouse	2,015,072	25	50,377	56
Office	80,000	64	5,120	6
Irrigation	566,712	74.6	42,249	47
Total	**2,661,784**	**–**	**97,746**	**109**

6.2 District 40 Demand

6.2.1 Existing Demand

District 40 currently serves 57,466 service connections. Water use is categorized into sectors and includes single-family, multi-family, commercial, industrial, and institutional/governmental customers. Water use sectors in 2020 are based on District 40's water sales and production records (2020 UWMP). A summary of District 40's existing water demands is shown in **Table 8**.

Table 8. 2020 UWMP Table 4-1. Retail: Demands for Potable and Non-Potable Water - Actual.

Use Type	2020 Actual		
	Additional Description	Level of Treatment when Delivered	Volume (ac-ft/yr)
Single-Family		Drinking Water	29,191
Multi-Family		Drinking Water	3,866
Commercial		Drinking Water	7,167
Industrial		Drinking Water	82
Institutional/Governmental	Includes large landscapes	Drinking Water	2,544
Other Potable	Includes construction meters	Drinking Water	266
Other	Includes other authorized consumption such as firefighting, flushing of water mains, and fire flow tests	Drinking Water	539
Losses[a]		Drinking Water	2,163
		Total	**45,818**

[a]2020 water loss data is pending validation.
Source: 2020 UWMP

6.2.2 Projected Demand

Customers of District 40 continue to surpass the targeted level of water conservation set by District 40. However, factors such as fluctuation in the climate over the last five years, the global pandemic, and education of the AVGB have significantly impacted water demand within District 40. Other impacts include the new planned developments in urban areas of Palmdale and Lancaster. To ensure the projected supply will be sufficient to meet the projected demand, especially imported water, the projected demand also considered impacts when precipitation in the Northern Sierra Mountains differs greatly from the historical 10-year average rainfall (2020 UWMP). District 40's projected water demand through 2045 is summarized in **Table 9**.

Table 9. 2020 UWMP Table 4-2. Retail: Use for Potable and Non-Potable Water – Projected.

Use Type	Projected Water Use, ac-ft/yr				
	2025	2030	2035	2040	2045
Single-Family	40,919	43,706	46,599	49,601	52,116
Multi-Family	2,212	2,364	2,518	2,683	2,819
Commercial[a]	3,112	2,617	2,178	1,780	1,870
Industrial	3,315	3,546	3,777	4,022	4,226
Institutional/Governmental[a]	1,035	870	726	595	625
Losses[b]	3,808	3,998	4,202	4,419	4,643
Total	**54,400**	**57,100**	**60,000**	**63,100**	**66,300**

[a]The 2025 - 2040 projected water demand is based on GPCD times the projected population.
[b]Losses are assumed to be 7% of projected water demand.
Source: 2020 UWMP

7 IS THE PROJECTED WATER SUPPLY SUFFICIENT FOR THE PROJECT?

The main question to answer in a WSA is:

> *Will the water supplier's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection meet the projected water demand of the proposed project, in addition to the water supplier's existing and planned future uses, including agricultural and manufacturing uses?*

The following sections provide a comparison of normal, single-dry, and multiple dry year demand and supply for District 40, including water demand associated with the project.

7.1 Normal Year Water Supply and Demand

Table 10 presents District 40's normal water year scenario, showing the current and projected water supply for the current and projected demand. The proposed Project demands would be met with increased water conservation reduction actions through the District's Water Shortage Contingency Plan in the event of a severe drought scenario. District 40 has indicated that the project demands are low, and they do not anticipate an issue meeting water demands for the project with conservation actions alone.

Table 10. 2020 UWMP Table 7-2. Retail: Normal Year Water Supply and Demand Comparison.

	2025	2030	2035	2040	2045
Supply Totals[a]	83,086	81,724	80,324	79,024	79,024
AVEK SWP[b]	57,300	55,800	54,200	52,700	52,700
District's Groundwater Production Rights[b]	6,789	6,789	6,789	6,789	6,789
District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
District's Imported Water Return Flows	10,400	10,4000	10,4000	10,4000	10,4000
District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
New supply from AVEK[c]	1,733	1,733	1,733	1,733	1,733
Recycled Water[b,d]	764	902	1,102	1,302	1,302
Demand Totals[e]	55,164	58,002	61,102	64,402	67,602
Difference (Supply Minus Demand)	**27,922**	**23,722**	**19,222**	**14,622**	**11,422**

[a]Supply total from DWR Table 6-9. [b]Supply from DWR Tables 6-9.

[c]New supply projections are based on anticipated new water supply that will be acquired by AVEK for developers. These projections are consistent with the developer demands (Projections provided by New Water Supply and Development Services for the District).

[d]Recycled water supply volumes are set equal to projected water demand.

[e]Demand from DWR Table 4-3 and demand from the Project.

Source: 2020 UWMP

7.2 Single-Dry Year Water Supply and Demand

Table 11 presents District 40's single-dry water year scenario, showing a comparison of single-dry year water supply for the projected demand. The single-dry year scenario is based on the driest year on record for AVEK, 1977. District 40 and AVEK determined that water demand in the single-dry year will remain the same as a normal year.

In the single-dry year scenario, AVEK can meet District 40's demand by pumping groundwater from its banked supplies. No supply deficit is anticipated.

Table 11. 2020 UWMP Table 7-3. Single Dry Year Supply and Demand Comparison (AFY)

	2025	2030	2035	2040	2045
Supply Totals	55,164	58,002	61,102	64,402	67,602
AVEK SWP	5,000	5,000	5,000	5,000	5,000
AVEK Groundwater from Banked Supplies	24,378	27,078	29,978	33,078	36,278
District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
New supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733
Recycled Water [b]	764	902	1,102	1,302	1,302
Demand Totals	55,164	58,002	61,102	64,402	67,602
Difference (Supply Minus Demand)	**0**	**0**	**0**	**0**	**0**

[a]New supply projections are based on anticipated new water supply that will be acquired by AVEK for developers. These projections are consistent with the developer demands (Projections provided by New Water Supply and Development Services for the District). Return flows from new supply are not included for clarity in interpreting Supply and Demand Assessment tables 7-2, 7-3, and 7-4.

[b]Recycled water supply volumes are projected water use and not reasonably available volumes.

Source: 2020 UWMP

7.3 Multiple-Dry Year Water Supply and Demand

Table 12 presents District 40's multiple-dry water year scenario, showing a comparison of single-dry year water supply for the projected demand. The multiple-dry year scenario is based on five consecutive dry years. District 40 and AVEK determined that water demand in a multiple-dry year scenario will remain the same as a normal year.

In the multiple-dry year scenario, AVEK can meet District 40's demand by pumping groundwater from its banked supplies. No supply deficit is anticipated.

Table 12. 2020 UWMP Table 7-4. Multiple Dry Years Supply and Demand Comparison (AFY).

	Supply/Demand	2025	2030	2035	2040	2045
First Year	Supply Totals	55,164	58,002	61,102	64,402	67,602
	AVEK SWP	12,500	12,500	12,500	12,500	12,500
	AVEK Groundwater from Banked Supplies	16,878	19,578	22,487	25,578	28,778
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733
	Recycled Water[b]	764	902	1,102	1,302	1,302
	Demand Totals	55,164	58,002	61,102	64,402	67,602
	Difference (Supply Minus Demand)	**0**	**0**	**0**	**0**	**0**
Second Year	Supply Totals	59,776	59,914	61,102	64,402	67,602
	AVEK SWP	32,700	32,700	32,700	32,700	32,700
	AVEK Groundwater from Banked Supplies	0	0	2,278	5,378	8,578
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733
	Recycled Water[b]	764	902	1,102	1,302	1,302
	Demand Totals	55,164	58,002	61,102	64,402	67,602
	Difference (Supply Minus Demand)	**4,612**	**1,912**	**0**	**0**	**0**
Third Year	Supply Totals	55,164	58,002	61,102	64,402	67,602
	AVEK SWP	13,500	13,500	13,500	13,500	13,500
	AVEK Groundwater from Banked Supplies	15,878	18,578	21,478	24,578	27,778
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733

	Supply/Demand	2025	2030	2035	2040	2045
	Recycled Water[b]	764	902	1,102	1,302	1,302
	Demand Totals	55,164	58,002	61,102	64,402	67,602
	Difference (Supply Minus Demand)	**0**	**0**	**0**	**0**	**0**
Fourth Year	Supply Totals	55,164	58,002	61,102	64,402	67,602
	AVEK SWP	25,900	25,900	25,900	25,900	25,900
	AVEK Groundwater from Banked Supplies	3,478	6,178	9,078	12,178	15,378
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733
	Recycled Water[b]	764	902	1,102	1,302	1,302
	Demand Totals	55,164	58,002	61,102	64,402	67,602
	Difference (Supply Minus Demand)	**0**	**0**	**0**	**0**	**0**
Fifth Year	Supply Totals	55,164	58,002	61,102	64,402	67,602
	AVEK SWP	18,200	18,200	18,200	18,200	18,200
	AVEK Groundwater from Banked Supplies	11,178	13,878	16,778	19,878	23,078
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK[a]	1,733	1,733	1,733	1,733	1,733
	Recycled Water[b]	764	902	1,102	1,302	1,302
	Demand Totals	55,164	58,002	61,102	64,402	67,602
	Difference (Supply Minus Demand)	**0**	**0**	**0**	**0**	**0**

[a]New supply projections are based on anticipated new water supply that will be acquired by AVEK for developers. These projections are consistent with the developer demands (Projections provided by New Water Supply and Development Services for the District 40). Return flows from new supply are not included for clarity in interpreting Supply and Demand Assessment tables 7-2, 7-3, and 7-4.

[b]Recycled water supply volumes are set equal to projected water demand.

Source: 2020 UWMP

8 CONCLUSIONS

This WSA assessed water supplies available during normal, single-dry, multiple-dry water years to see if they can meet the projected water demand of the proposed Project, in addition to the water supplier's existing and planned future uses. The Project will add 109 AFY of water demand in the current year. Water demand for the Project was calculated using demand factors for each of the Project land uses. The Project is not located in an area that is currently serviced by a public water system but is located two miles away from District 40's service border. The Project demand can be met by either a new service connection through District 40 or a new on-site groundwater well.

District 40 has sufficient supply to meet the current and projected supply during normal, single-dry, and multiple-dry years. In single-dry and multiple-dry years, AVEK, the primary supply of District 40, can meet District 40's demand together with the Project's demand by pumping groundwater from its banked supplies.

It should be noted that though District 40's UWMP concludes there are supplies to meet demand, District 40's water supply is very near the limit of what the region is able to accommodate, and the District relies heavily on its WSCP conservation actions to make up the difference in multi-year drought periods. The Project will add stress to an already stressed supply. With new extreme drought scenarios, it is growing more uncertain whether the region will be able to meet the demands of this and other large development projects.

Upon completion of this WSA, the Los Angeles County Waterworks District 40 (District 40), the likely water supplier for the Project, will provide a Notice of Determination for if adequate water supplies are available for the Project. This will be included into the Project's environmental documentation.

Consistent with the provisions of SB 610, neither this WSA nor its approval shall be construed to create a right or entitlement to water service or any specific level of water service, and shall not impose, expand, or limit any duty concerning the obligation of District 40 to provide certain service to its existing customers or to any future potential customers.

This WSA does not constitute a will-serve, plan of service, or agreement to provide water service to the Project, and does not entitle the Project, Project Applicant, or any other person or entity to any right, priority or allocation in any supply, capacity, or facility. To receive water service, the Project will be subject to an agreement with District 40, together with any and all applicable fees, charges, plans and specifications, conditions, and any and all other applicable District 40 requirements in place and as amended from time to time. Nor does anything in the WSA prevent or otherwise interfere with District 40's discretionary authority to declare a water shortage emergency in accordance with the CWC.

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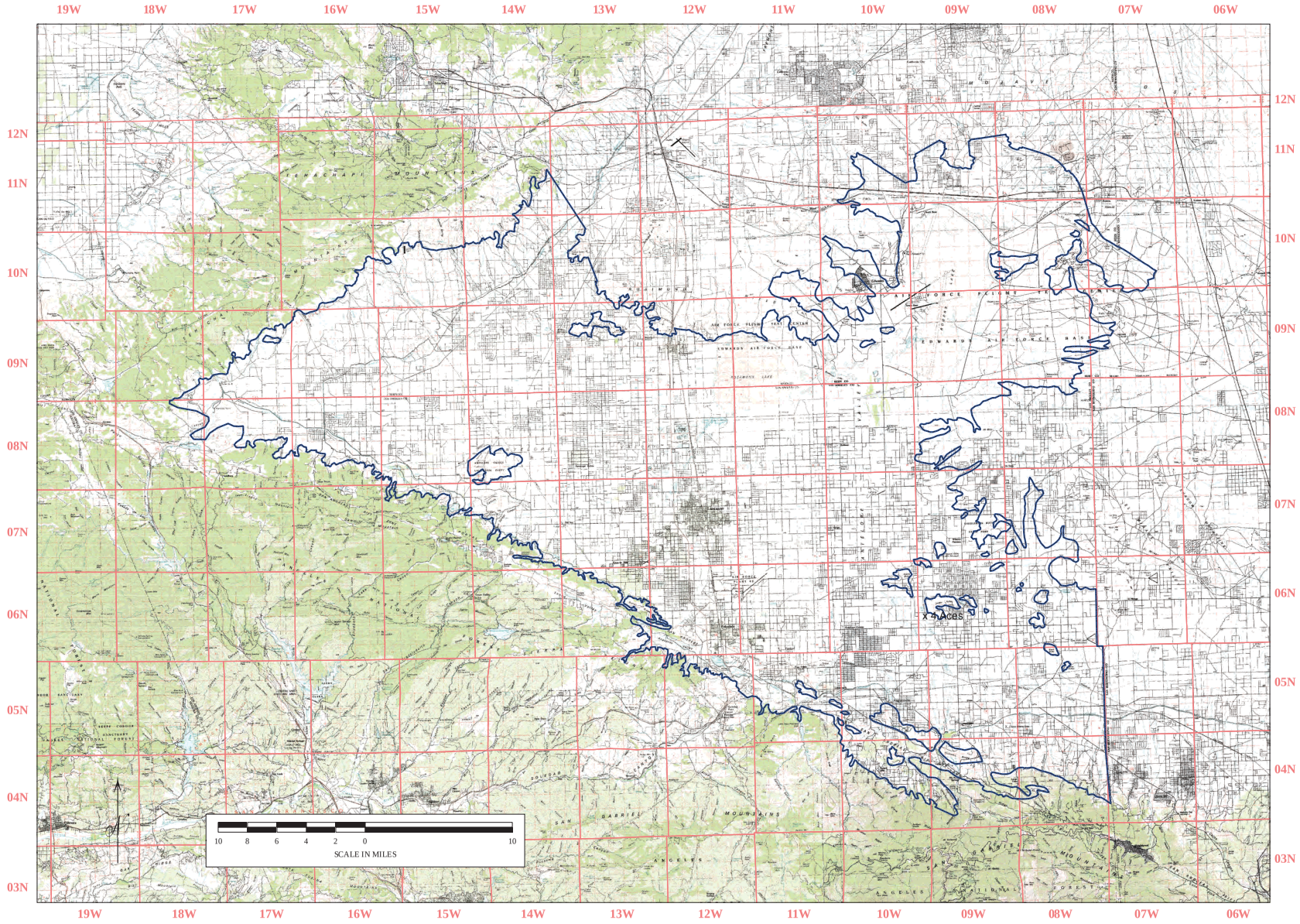
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APPENDIX A

ANTELOPE VALLEY GROUNDWATER ADJUDICATION JUDGMENT



Jurisdictional Boundary
Antelope Valley Groundwater Adjudication

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF LOS ANGELES – CENTRAL DISTRICT

ANTELOPE VALLEY GROUNDWATER CASES Included Actions: Los Angeles County Waterworks District No. 40 v. Diamond Farming Co., Superior Court of California, County of Los Angeles, Case No. BC 325201; Los Angeles County Waterworks District No. 40 v. Diamond Farming Co., Superior Court of California, County of Kern, Case No. S-1500-CV-254-348; Wm. Bolthouse Farms, Inc. v. City of Lancaster, Diamond Farming Co. v. City of Lancaster, Diamond Farming Co. v. Palmdale Water Dist., Superior Court of California, County of Riverside, Case Nos. RIC 353 840, RIC 344 436, RIC 344 668 RICHARD WOOD, on behalf of himself and all other similarly situated v. A.V. Materials, Inc., et al., Superior Court of California, County of Los Angeles, Case No. BC509546	Judicial Council Coordination Proceeding No. 4408 CLASS ACTION Santa Clara Case No. 1-05-CV-049053 Assigned to the Honorable Jack Komar ~~(PROPOSED)~~ **JUDGMENT**

The matter came on for trial in multiple phases. A large number of parties representing the majority of groundwater production in the Antelope Valley Area of Adjudication ("Basin") entered into a written stipulation to resolve their claims and requested that the Court enter their [Proposed] Judgment and Physical Solution as part of the final judgment. As to all remaining parties, including those who failed to answer or otherwise appear, the Court heard the testimony of witnesses, considered the evidence, and heard the arguments of counsel. Good cause appearing, the Court finds and orders judgment as follows:

1. The Second Amended Stipulation For Entry of Judgment and Physical Solution among the stated stipulating parties is accepted and approved by the Court.

2. Consistent with the December 23 2015 Statement of Decision ("Decision"), the Court adopts the Proposed Judgment and Physical Solution attached hereto as Exhibit A and incorporated herein by reference, as the Court's own physical solution ("Physical Solution"). The Physical Solution is binding upon all parties.

3. In addition to the terms and provisions of the Physical Solution the Court finds as follows:

   a. Each of the Stipulating Parties to the Physical Solution has the right to pump groundwater from the Antelope Valley Adjudication Area as stated in the Decision and Physical Solution.

   b. The following entities are awarded prescriptive rights from the native safe yield against the Tapia Parties, defaulted parties identified in Exhibit 1 to the Physical Solution, and parties who did not appear at trial identified in Exhibit B attached hereto, in the following amounts:

Los Angeles County Waterworks District No. 40	17,659.07 AFY
Palmdale Water District	8,297.91 AFY
Littlerock Creek Irrigation District	1,760 AFY
Quartz Hill Water District	1,413 AFY
Rosamond Community Services District	1,461.7 AFY
Palm Ranch Irrigation District	960 AFY

Desert Lake Community Services District		318 AFY
California Water Service Company		655 AFY
North Edwards Water District		111.67 AFY

No other parties are subject to these prescriptive rights.

c. Each of the parties referred to in the Decision as Supporting Landowner Parties has the right to pump groundwater from the Antelope Valley Adjudication Area as stated in the Decision and in Paragraph 5.1.10 of the Physical Solution in the following amounts:

i.	Desert Breeze MHP, LLC	18.1 AFY
ii.	Milana VII, LLC dba Rosamond Mobile Home Park	21.7 AFY
iii.	Reesdale Mutual Water Company	23 AFY
iv.	Juanita Eyherabide, Eyherabide Land Co., LLC and Eyherabide Sheep Company, collectively	12 AFY
v.	Clan Keith Real Estate Investments, LLC., dba Leisure Lake Mobile Estates	64 AFY
vi.	White Fence Farms Mutual Water Co. No. 3	4 AFY
vii.	LV Ritter Ranch LLC	0 AFY
viii.	Robar Enterprises, Inc., Hi-Grade Materials Co., and CJR, a General Partnership	200 AFY

d. Each member of the Small Pumper Class can exercise an overlying right pursuant to the Physical Solution. The Judgment Approving Small Pumper Class Action Settlements is attached as Exhibit C ("Small Pumper Class Judgment") and is incorporated herein by reference.

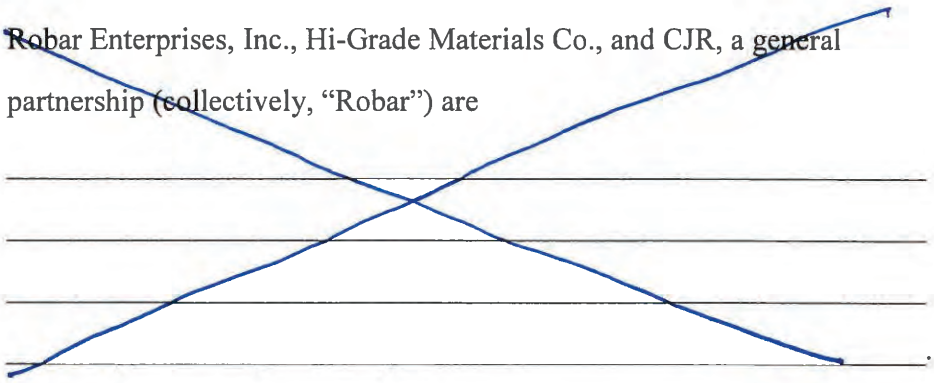
e. Cross-defendant Charles Tapia, as an individual and as Trustee of Nellie Tapia Family Trust (collectively, "The Tapia Parties") has no right to pump groundwater from the Antelope Valley Adjudication Area except under the terms of the Physical Solution.

f. Phelan Piñon Hills Community Services District ("Phelan") has no right to pump groundwater from the Antelope Valley Adjudication Area except under the terms of the Physical Solution.

g. The Willis Class members have an overlying right that is to be exercised in accordance with the Physical Solution.

h. All defendants or cross-defendants who failed to appear in any of these coordinated and consolidated cases are bound by the Physical Solution and their overlying rights, if any, are subject to the prescriptive rights of the Public Water Suppliers. A list of the parties who failed to appear is attached hereto as Exhibit D.

i. Robar Enterprises, Inc., Hi-Grade Materials Co., and CJR, a general partnership (collectively, "Robar") are



4. Each party shall designate the name, address and email address, to be used for all subsequent notices and service of process by a designation to be filed within thirty days after entry of this Judgment. The list attached as Exhibit A to the Small Pumper Class Judgment shall be used for notice purposes initially, until updated by the Class members and/or Watermaster. The designation may be changed from time to time by filing a written notice with the Court. Any party desiring to be relieved of receiving notice may file a waiver of notice to be approved by the Court. The Court will maintain a list of parties and their respective addresses to whom notice or service of process is to be sent. If no designation is made as required herein, a party's designee shall be deemed to be the attorney of record or, in the absence of an attorney of record, the party at its specified address.

5. All real property owned by the parties within the Basin is subject to this Judgment. It is binding upon all parties, their officers, agents, employees, successors and assigns. Any party, or executor of a deceased party, who transfers real property that is subject to this Judgment shall notify any transferee thereof of this Judgment.

This Judgment shall not bind the parties that cease to own real property within the Basin, and cease to use groundwater, except to the extent required by the terms of an instrument, contract, or other agreement.

The Clerk shall enter this Judgment.

Dated: Dec 23, 2015

JUDGE OF THE SUPERIOR COURT

EXHIBIT A

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF LOS ANGELES - CENTRAL DISTRICT

Coordination Proceeding Special Title (Rule 1550(b)) **ANTELOPE VALLEY GROUNDWATER CASES**	Judicial Council Coordination Proceeding No. 4408 **Santa Clara Case No.: 1-05-CV-049053** Judge: The Honorable Jack Komar, Dept. 17 [PROPOSED] JUDGMENT AND PHYSICAL SOLUTION

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A number of Parties have agreed and stipulated to entry of a Judgment consistent with the terms of this Judgment and Physical Solution (hereafter "this Judgment"). The stipulations of the Parties are conditioned upon further proceedings that will result in a Judgment binding all Parties to the Action. The Court, having considered the pleadings, the stipulations of the Parties, and the evidence presented, and being fully informed in the matter, approves the Physical Solution[1] contained herein. This Judgment is entered as a Judgment binding on all Parties served or appearing in this Action, including without limitation, those Parties which have stipulated to this Judgment, are subject to prior settlement(s) and judgment(s) of this Court, have defaulted or hereafter stipulate to this Judgment.

I. DESCRIPTION OF LITIGATION

1. PROCEDURAL HISTORY

1.1 Initiation of Litigation.

On October 29, 1999, Diamond Farming Company ("Diamond Farming") filed in the Riverside County Superior Court (Case No. RIC 344436) the first complaint in what would become these consolidated complex proceedings known as the Antelope Valley Groundwater Cases. Diamond Farming's complaint names as defendants the City of Lancaster, Palmdale Water District, Antelope Valley Water Company, Palm Ranch Irrigation District, Quartz Hill Water District, Rosamond Community Services District, and Mojave Public Utility District.

On February 22, 2000, Diamond Farming filed another complaint in the Riverside County Superior Court (Case No. RIC 344468). The two Diamond Farming actions were subsequently consolidated.

On January 25, 2001, Wm. Bolthouse Farms, Inc. ("Bolthouse") filed a complaint in the same Court against the same entities, as well as Littlerock Creek Irrigation District and Los Angeles Waterworks Districts Nos. 37 and 40 (Case No. RIC 353840).

[1] A "physical solution" describes an agreed upon or judicially imposed resolution of conflicting claims in a manner that advances the constitutional rule of reasonable and beneficial use of the state's water supply. (*City of Santa Maria v. Adam* (2012) 211 Cal. App. 4th 266, 288.) It is defined as "an equitable remedy designed to alleviate overdrafts and the consequential depletion of water resources in a particular area, consistent with the constitutional mandate to prevent waste and unreasonable water use and to maximize the beneficial use of this state's limited resource." (*California American Water v. City of Seaside* (2010) 183 Cal. App. 4th 471, 480.)

The Diamond Farming and Bolthouse complaints variously allege that unregulated pumping by these named public agencies (collectively the Public Water Suppliers) has irreparably harmed Diamond Farming and Bolthouse's rights to produce Groundwater from the Antelope Valley Groundwater Basin, and interfered with their rights to put that Groundwater to reasonable and beneficial uses on property they own or lease. Diamond Farming and Bolthouse's complaints seek a determination of their water rights and to quiet title as to the same.

In 2001, the Diamond Farming and Bolthouse actions were consolidated in the Riverside County Superior Court.

In August 2002, a Phase 1 trial commenced in the Riverside County Superior Court in the consolidated Diamond Farming/Bolthouse proceedings for the purpose of determining the geographic boundary of the area to be adjudicated. That Phase 1 trial was not concluded and the Court did not determine any issues or make any factual findings at that time.

1.2 General Adjudication Commenced.

In 2004, Los Angeles County Waterworks District No. 40 ("District No. 40") initiated a general Groundwater adjudication for the Antelope Valley Ground Water Basin by filing identical complaints for declaratory and injunctive relief in the Los Angeles and Kern County Superior Courts (Los Angeles County Superior Court Case No. BC 325201 and Kern County Superior Court Case No. S-1500-CV 254348). District No. 40's complaints sought a judicial determination of the respective rights of the Parties to produce Groundwater from the Antelope Valley Groundwater Basin.

On December 30, 2004, District No. 40 petitioned the Judicial Council of California for coordination of the above-referenced actions. On June 17, 2005, the Judicial Council of California granted the petition and assigned the "Antelope Valley Groundwater Cases" (Judicial Council Coordination Proceeding No. 4408) to this Court (Santa Clara County Superior Court Case No. 1-05-CV-049053 (Hon. Jack Komar)).

For procedural purposes, the Court requested that District No. 40 refile its complaint as a first amended cross-complaint in the now coordinated proceedings. Joined by the

other Public Water Suppliers, District No. 40 filed a first amended cross-complaint seeking declaratory and injunctive relief and an adjudication of the rights to all Groundwater within the Antelope Valley Groundwater Basin. The Public Water Suppliers' cross-complaint, as currently amended, requests an adjudication to protect the public's water supply, prevent water quality degradation, and stop land subsidence. Some of the Public Water Suppliers allege they have acquired prescriptive and equitable rights to the Groundwater in the Basin. They allege the Basin has been in overdraft for more than five consecutive Years and they have pumped water from the Basin for reasonable and beneficial purposes in an open, notorious, and continuous manner. They allege each non-public cross-defendant had actual or constructive notice of these activities, sufficient to establish prescriptive rights in their favor. In order to alleviate overdraft conditions and protect the Basin, the Public Water Suppliers also request a physical solution.

1.3 Other Actions

In response to the Public Water Suppliers first amended cross-complaint, numerous Parties filed cross-complaints seeking various forms of relief.

On August 30, 2006, Antelope Valley-East Kern Water Agency ("AVEK") filed a cross-complaint seeking declaratory and injunctive relief and claiming overlying rights and rights to pump the supplemental yield attributable to return flows from State Water Project water imported to the Basin.

On January 11, 2007, Rebecca Lee Willis filed a class action complaint in the Los Angeles County Superior Court (Case No. BC 364553) for herself and on behalf of a class of non-pumping overlying property owners ("Non-Pumper Class"), through which she sought declaratory relief and money damages from various public entities. Following certification, the Non-Pumper Class entered into a settlement agreement with the Public Water Suppliers concerning the matters at issue in the class complaint. On September 22, 2011, the Court approved the settlement through an amended final judgment.

On June 2, 2008, Richard A. Wood filed a class action complaint for himself and on behalf of a class of small property owners in this action ("Small Pumper Class"), *Wood v. Los*

Angeles Co. Waterworks Dist. 40, et al., (Case No.: BC 391869) through which he sought declaratory relief and money damages from various public entities. The Small Pumper Class was certified on September 2, 2008.

On February 24, 2010, following various orders of coordination, the Court granted the Public Water Suppliers' motion to transfer and consolidate all complaints and cross-complaints in this matter, with the exception of the complaint in Sheldon R. Blum, etc. v. Wm. Bolthouse Farms, Inc. (Santa Clara County Superior Court Case No. 1-05-CV-049053), which remains related and coordinated.

1.4 McCarran Amendment Issues

The Public Water Suppliers' cross-complaint names Edwards Air Force Base, California and the United States Department of the Air Force as cross-defendants, seeking the same declaratory and injunctive relief as sought against the other cross-defendants. This Judgment, or any other determination in this case regarding rights to water, is contingent on a Judgment satisfying the requirements of the McCarran Amendment, 43 U.S.C. §666. The United States reserves all rights to object or otherwise challenge any interlocutory judgment and reserves all rights to appeal a Judgment that does not satisfy the requirements of the McCarran Amendment.

1.5 Phased Trials

The Court has divided the trial in this matter into multiple phases, four of which have been tried.

Through the Phase 1 trial, the Court determined the geographical boundaries of the area adjudicated in this Action which is defined as the Basin. On November 3, 2006, the Court entered an order determining that issue.

Through the Phase 2 trial, the Court determined that all areas within the Basin are hydrologically connected and a single aquifer, and that there is sufficient hydraulic connection between the disputed areas and the rest of the Basin such that the Court must include the disputed areas within the adjudication area. The Court further determined that it would be premature to make

any determinations regarding, *inter alia*, claims that portions of the Basin should be treated as a separate area for management purposes. On November 6, 2008, the Court entered its Order after Phase Two Trial on Hydrologic Nature of Antelope Valley.

Through the Phase 3 trial, the Court determined the Basin is in a current state of overdraft and the safe yield is 110,000 acre-feet per Year. The Court found the preponderance of the evidence presented established that setting the safe yield at 110,000 acre-feet per Year will permit management of the Basin in such a way as to preserve the rights of the Parties in accordance with the California Constitution and California law. On July 13, 2011, the Court filed its Statement of Decision.

Through the Phase 4 trial, the Court determined the overall Production occurring in the Basin in calendar Years 2011 and 2012.

1.6 Defaults

Numerous Parties have failed to respond timely, or at all, to the Public Water Suppliers' cross-complaint, as amended, and their defaults have been entered. The Court has given the defaulted Parties notice of this Judgment and Physical Solution, together with the opportunity to be heard regarding this Judgment, and hereby enters default judgments against all such Parties and incorporates those default judgments into this Judgment. Pursuant to such default judgments a defaulted Party has no right to Produce Groundwater from the Basin. All Parties against which a default judgment has been entered are identified on Exhibit 1, attached hereto and incorporated herein by reference.

2. GENERAL ADJUDICATION DOES NOT APPLY TO SURFACE WATER.

Pursuant to California law, surface water use since 1914 has been governed by the Water Code. This Judgment does not apply to surface water as defined in the Water Code and is not intended to interfere with any State permitted or licensed surface water rights or pre-1914 surface water right. The impact of any surface water diversion should be considered as part of the State Water Resources Control Board permitting and licensing process and not as part of this Judgment.

II. DECREE

3. JURISDICTION, PARTIES, DEFINITIONS.

3.1 Jurisdiction. This Action is an *inter se* adjudication of all claims to the rights to Produce Groundwater from the Basin alleged between and among all Parties. This Court has jurisdiction over the subject matter and Parties herein to enter a Judgment declaring and adjudicating the rights to reasonable and beneficial use of water by the Parties in the Action pursuant to Article X, section 2 of the California Constitution.

3.2 Parties. The Court required that all Persons having or claiming any right, title or interest to the Groundwater within the Basin be notified of the Action. Notice has been given pursuant to the Court's order. All Public Water Suppliers, landowners, Non-Pumper Class and Small Pumper Class members and other Persons having or making claims have been or will be included as Parties to the Action. All named Parties who have not been dismissed have appeared or have been given adequate opportunity to appear.

3.3 Factual and Legal Issues. The complaints and cross-complaints in the Action frame many legal issues. The Action includes over 4,000 Parties, as well as the members of the Non-Pumper Class and the members of the Small Pumper Class. The Basin's entire Groundwater supply and Groundwater rights, extending over approximately 1390 square miles, have been brought to issue. The numerous Groundwater rights at issue in the case include, without limitation, overlying, appropriative, prescriptive, and federal reserved water rights to Groundwater, rights to return flows from Imported Water, rights to recycled water, rights to stored Imported Water subject to the Watermaster rules and regulations, and rights to utilize the storage space within the Basin. After several months of trial, the Court made findings regarding Basin characteristics and determined the Basin's Safe Yield. The Court's rulings and judgments in this case, including the Safe Yield determination, form the basis for this Judgment.

3.4 Need for a Declaration of Rights and Obligations for a Physical Solution. A Physical Solution for the Basin, based on a declaration of water rights and a formula for allocation of rights and obligations, is necessary to implement the mandate of Article X,

section 2 of the California Constitution and to protect the Basin and the Parties' rights to the Basin's water resources. The Physical Solution governs Groundwater, Imported Water and Basin storage space, and is intended to ensure that the Basin can continue to support existing and future reasonable and beneficial uses. A Physical Solution requires determining individual Groundwater rights for the Public Water Suppliers, landowners, Non-Pumper Class and Small Pumper Class members, and other Parties within the Basin. The Physical Solution set forth in this Judgment: (1) is a fair and reasonable allocation of Groundwater rights in the Basin after giving due consideration to water rights priorities and the mandate of Article X, section 2 of the California Constitution; (2) provides for a reasonable sharing of Imported Water costs; (3) furthers the mandates of the State Constitution and State water policy; and (4) is a remedy that gives due consideration to applicable common law rights and priorities to use Basin water and storage space without substantially impairing such rights. Combined with water conservation, water reclamation, water transfers, water banking, and improved conveyance and distribution methods within the Basin, present and future Imported Water sources are sufficient both in quantity and quality to assure implementation of a Physical Solution. This Judgment will facilitate water resource planning and development by the Public Water Suppliers and individual water users.

3.5 Definitions. As used in this Judgment, the following terms shall have the meanings set forth herein:

3.5.1 Action. The coordinated and consolidated actions included in the Antelope Valley Groundwater Cases, Judicial Council Coordination Proceeding No. 4408, Santa Clara Superior Court Case No. 1-05-CV-049053.

3.5.2 Adjusted Native Safe Yield. The Native Safe Yield minus (1) the Production Right allocated to the Small Pumper Class under Paragraph 5.1.3, (2) the Federal Reserved Water Right under Paragraph 5.1.4, and (3) the State of California Production Right under Paragraph 5.1.5. The Adjusted Native Safe Yield as of the date of entry of this Judgment is 70,686.6 acre-feet per year.

3.5.3 Administrative Assessment. The amount charged by the Watermaster for the costs incurred by the Watermaster to administer this Judgment.

3.5.4 Annual Period. The calendar Year.

3.5.5 Antelope Valley United Mutuals Group. The members of the Antelope Valley United Mutuals Group are Antelope Park Mutual Water Company, Aqua-J Mutual Water Company, Averydale Mutual Water Company, Baxter Mutual Water Company, Bleich Flat Mutual Water Company, Colorado Mutual Water Co., El Dorado Mutual Water Company, Evergreen Mutual Water Company, Land Projects Mutual Water Co., Landale Mutual Water Co., Shadow Acres Mutual Water Company, Sundale Mutual Water Company, Sunnyside Farms Mutual Water Company, Inc., Tierra Bonita Mutual Water Company, West Side Park Mutual Water Co. and White Fence Farms Mutual Water Co., together with the successor(s)-in-interest to any member thereof. Each of the members of the Antelope Valley United Mutuals Group was formed when the owner(s) of the lands that were being developed incorporated the mutual water company and transferred their water rights to the mutual water company in exchange for shares of common stock. The mutual water company owns, operates and maintains the infrastructure for the production, storage, distribution and delivery of water solely to its shareholders. The shareholders of each of these mutual water companies, who are the owners of the real property that is situated within the mutual water company's service area, have the right to have water delivered to their properties, a right appurtenant to their land. [*See, Erwin v. Gage Canal Company* (1964) 226 Cal.App.2d 189].

3.5.6 AVEK. The Antelope Valley–East Kern Water Agency.

3.5.7 Balance Assessment. The amount of money charged by the Watermaster on all Production Rights, excluding the United States' actual Production, to pay for the costs, not including infrastructure, to purchase, deliver, produce in lieu, or arrange for alternative pumping sources in the Basin.

3.5.8 Basin. The area adjudicated in this Action as shown on Exhibit 2, attached hereto and incorporated herein by reference, which lies within the boundaries of the line

labeled "Boundaries of the Adjudicated Area" and described therein. The Basin generally encompasses the Antelope Valley bordered on the West and South by the San Gabriel and Tehachapi Mountains, with the eastern boundary being the Los Angeles-San Bernardino County line, as determined by the Court.

3.5.9 Carry Over. The right to Produce an unproduced portion of an annual Production Right or a Right to Imported Water Return Flows in a Year subsequent to the Year in which the Production Right or Right to Imported Water Return Flows was originally available.

3.5.10 Conjunctive Use. A method of operation of a groundwater basin under which Imported Water is used or stored in the Basin in Years when it is available; allowing the Basin to refill, and more Groundwater is Produced in Years when Imported Water is less available.

3.5.11 Defaulting Party. A Party who failed to file a responsive pleading and against which a default judgment has been entered. A list of Defaulting Parties is attached as Exhibit 1.

3.5.12 Drought Program. The water management program in effect only during the Rampdown period affecting the operations and Replacement Water Assessments of the participating Public Water Suppliers.

3.5.13 Judgment. A judgment, consistent with Cal.C.C.P. §§ 577 and 1908(a)(1) and 43 U.S.C. § 666, determining all rights to Groundwater in the Basin, establishing a Physical Solution, and resolving all claims in the Action.

3.5.14 Groundwater. Water beneath the surface of the ground and within the zone of saturation, excluding water flowing through known and definite channels.

3.5.15 Imported Water. Water brought into the Basin from outside the watershed of the Basin as shown in Exhibit 9.

3.5.16 Imported Water Return Flows. Imported Water that net augments the Basin Groundwater supply after use.

3.5.17 In Lieu Production. The amount of Imported Water used by a Producer in a Year instead of Producing an equal amount of that Producer's Production Right.

3.5.18 Material Injury. Material Injury means impacts to the Basin caused by pumping or storage of Groundwater that:

3.5.18.1 Causes material physical harm to the Basin, any Subarea, or any Producer, Party or Production Right, including, but not limited to, Overdraft, degradation of water quality by introduction of contaminants to the aquifer by a Party and/or transmission of those introduced contaminants through the aquifer, liquefaction, land subsidence and other material physical injury caused by elevated or lowered Groundwater levels. Material physical harm does not include "economic injury" that results from other than direct physical causes, including any adverse effect on water rates, lease rates, or demand for water.

3.5.18.2 If fully mitigated, Material Injury shall no longer be considered to be occurring.

3.5.19 Native Safe Yield. Naturally occurring Groundwater recharge to the Basin, including "return flows" from pumping naturally occurring recharge, on an average annual basis. Imported Water Return Flows are not included in Native Safe Yield.

3.5.20 New Production. Any Production of Groundwater from the Basin not of right under this Judgment, as of the date of this Judgment.

3.5.21 Non-Overlying Production Rights. The rights held by the Parties identified in Exhibit 3, attached hereto and incorporated herein by reference.

3.5.22 Non-Pumper Class. All private (i.e., non-governmental) Persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and did not do so at any time during the five Years preceding January 18, 2006. The Non-Pumper Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such Non-Pumper Class members' land within the Basin. The Non-Pumper Class excludes (1) all Persons to the extent their properties are connected to a municipal water system, public utility, or mutual water company from which they receive water

service, (2) all properties that are listed as "improved" by the Los Angeles County or Kern County Assessor's offices, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties, and (3) those who opted out of the Non-Pumper Class. The Non-Pumper Class does not include landowners who have been individually named under the Public Water Suppliers' cross-complaint, unless such a landowner has opted into such class.

3.5.23 Non-Pumper Class Judgment. The amended final Judgment that settled the Non-Pumper Class claims against the Public Water Suppliers approved by the Court on September 22, 2011.

3.5.24 Non-Stipulating Party. Any Party who had not executed a Stipulation for Entry of this Judgment prior to the date of approval of this Judgment by the Court.

3.5.25 Overdraft. Extractions in excess of the Safe Yield of water from an aquifer, which over time will lead to a depletion of the water supply within a groundwater basin as well as other detrimental effects, if the imbalance between pumping and extraction continues.

3.5.26 Overlying Production Rights. The rights held by the Parties identified in Exhibit 4, attached hereto and incorporated herein by reference.

3.5.27 Party (Parties). Any Person(s) that has (have) been named and served or otherwise properly joined, or has (have) become subject to this Judgment and any prior judgments of this Court in this Action and all their respective heirs, successors-in-interest and assigns. For purposes of this Judgment, a "Person" includes any natural person, firm, association, organization, joint venture, partnership, business, trust, corporation, or public entity.

3.5.28 Pre-Rampdown Production. The reasonable and beneficial use of Groundwater, excluding Imported Water Return Flows, at a time prior to this Judgment, or the Production Right, whichever is greater.

3.5.29 Produce(d). To pump Groundwater for existing and future reasonable beneficial uses.

3.5.30 Producer(s). A Party who Produces Groundwater.

3.5.31 Production. Annual amount of Groundwater Produced, stated in acre-feet of water.

3.5.32 Production Right. The amount of Native Safe Yield that may be Produced each Year free of any Replacement Water Assessment and Replacement Obligation. The total of the Production Rights decreed in this Judgment equals the Native Safe Yield. A Production Right does not include any right to Imported Water Return Flows pursuant to Paragraph 5.2.

3.5.33 Pro-Rata Increase. The proportionate increase in the amount of a Production Right, as provided in Paragraph 18.5.10, provided the total of all Production Rights does not exceed the Native Safe Yield.

3.5.34 Pro-Rata Reduction. The proportionate reduction in the amount of a Production Right, as provided in Paragraph 18.5.10, in order that the total of all Production Rights does not exceed the Native Safe Yield.

3.5.35 Public Water Suppliers. The Public Water Suppliers are Los Angeles County Waterworks District No. 40, Palmdale Water District, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, City of Lancaster, Palm Ranch Irrigation District, Rosamond Community Services District, and West Valley County Water District.

3.5.36 Purpose of Use. The broad categories of type of water use including but not limited to municipal, irrigation, agricultural and industrial uses.

3.5.37 Rampdown. The period of time for Pre-Rampdown Production to be reduced to the Native Safe Yield in the manner described in this Judgment.

3.5.38 Recycled Water. Water that, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource.

3.5.39 Replacement Obligation. The obligation of a Producer to pay for Replacement Water for Production of Groundwater from the Basin in any Year in excess of the sum of such Producer's Production Right and Imported Water Return Flows.

3.5.40 Replacement Water. Water purchased by the Watermaster or otherwise provided to satisfy a Replacement Obligation.

3.5.41 Replacement Water Assessment. The amount charged by the Watermaster to pay for all costs incurred by the Watermaster related to Replacement Water.

3.5.42 Responsible Party. The Person designated by a Party as the Person responsible for purposes of filing reports and receiving notices pursuant to the provisions of this Judgment.

3.5.43 Safe Yield. The amount of annual extractions of water from the Basin over time equal to the amount of water needed to recharge the Groundwater aquifer and maintain it in equilibrium, plus any temporary surplus. [*City of Los Angeles v. City of San Fernando* (1975) 14 Cal. 3d 199, 278.]

3.5.44 Small Pumper Class. All private (i.e., non-governmental) Persons and entities that own real property within the Basin, as adjudicated, and that have been pumping less than 25 acre-feet per Year on their property during any Year from 1946 to the present. The Small Pumper Class excludes the defendants in *Wood v. Los Angeles Co. Waterworks Dist. 40, et al.*, any Person, firm, trust, corporation, or other entity in which any such defendants has a controlling interest or which is related to or affiliated with any such defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Small Pumper Class also excludes all Persons and entities that are shareholders in a mutual water company**.** The Small Pumper Class does not include those who opted out of the Small Pumper Class.

3.5.45 Small Pumper Class Members. Individual members of the Small Pumper Class who meet the Small Pumper Class definition, and for purposes of this Judgment and any terms pertaining to water rights, where two or more Small Pumper Class Members reside

in the same household, they shall be treated as a single Small Pumper Class Member for purposes of determining water rights.

3.5.46 State of California. As used herein, State of California shall mean the State of California acting by and through the following State agencies, departments and associations: (1) The California Department of Water Resources; (2) The California Department of Parks and Recreation; (3) The California Department of Transportation; (4) The California State Lands Commission; (5) The California Department of Corrections and Rehabilitation; (6) The 50th District Agricultural Association; (7) The California Department of Veteran Affairs; (8) The California Highway Patrol; and, (9) The California Department of Military.

3.5.47 State Water Project. Water storage and conveyance facilities operated by the State of California Department of Water Resources from which it delivers water diverted from the Feather River and the Sacramento-San Joaquin Delta via the California Aqueduct to public agencies it has contracted with.

3.5.48 Stipulating Party. Any Party who has executed a Stipulation for Entry of this Judgment prior to the date of approval of this Judgment by the Court.

3.5.49 Stored Water. Water held in storage in the Basin, as a result of direct spreading or other methods, for subsequent withdrawal and use pursuant to agreement with the Watermaster and as provided for in this Judgment. Stored Water does not include Imported Water Return Flows.

3.5.50 Subareas. Portions of the Basin, as described in this document, divided for management purposes.

3.5.51 Total Safe Yield. The amount of Groundwater that may be safely pumped from the Basin on a long-term basis. Total Safe Yield is the sum of the Native Safe Yield plus the Imported Water Return Flows.

3.5.52 Watermaster. The Person(s) appointed by the Court to administer the provisions of this Judgment.

3.5.53 Watermaster Engineer. The engineering or hydrology expert or firm retained by the Watermaster to perform engineering and technical analysis and water administration functions as provided for in this Judgment.

3.5.54 District No. 40. Los Angeles County Waterworks District No. 40.

3.5.55 Year. Calendar year.

4. SAFE YIELD AND OVERDRAFT

4.1 Safe Yield: The Native Safe Yield of the Basin is 82,300 acre-feet per Year. With the addition of Imported Water Return Flows, the Total Safe Yield is approximately 110,000 acre-feet per Year, but will vary annually depending on the volume of Imported Water.

4.2 Overdraft: In its Phase 3 trial decision, the Court held that the Basin, defined by the Court's March 12, 2007 Revised Order After Hearing On Jurisdictional Boundaries, is in a state of overdraft based on estimate of extraction and recharge, corroborated by physical evidence of conditions in the Basin. Reliable estimates of the long-term extractions from the Basin have exceeded reliable estimates of the Basin's recharge by significant margins, and empirical evidence of overdraft in the Basin corroborates that conclusion. Portions of the aquifer have sustained a significant loss of Groundwater storage since 1951. The evidence is persuasive that current extractions exceed recharge and therefore that the Basin is in a state of overdraft. The Court's full Phase 3 trial decision is attached as Exhibit 5 and is incorporated herein by reference.

5. PRODUCTION RIGHTS

5.1 Allocation of Rights to Native Safe Yield. Consistent with the goals of this Judgment and to maximize reasonable and beneficial use of the Groundwater of the Basin pursuant to Article X, section 2 of the California Constitution, all the Production Rights established by this Judgment are of equal priority, except the Federal Reserved Water Right which is addressed in Paragraph 5.1.4, and with the reservation of the Small Pumper Class Members' right to claim a priority under Water Code section 106.

5.1.1 Overlying Production Rights. The Parties listed in Exhibit 4, attached hereto and incorporated herein by reference, have Overlying Production Rights. Exhibit 4 sets forth the following for each Overlying Production Right: (1) the Pre-Rampdown Production; (2) the Production Right; and (3) the percentage of the Production from the Adjusted Native Safe Yield.

5.1.1.1 The Parties listed on Exhibit 4 have the right to Produce Groundwater, on an annual basis, up to their Overlying Production Right set forth in Exhibit 4 for each Party. Each Party's Overlying Production Right is subject to the following conditions and limitations:

5.1.1.2 Pursuant to the terms of this Judgment, the Parties listed on Exhibit 4 have the right to Produce their Overlying Production Right for use on land they own or lease and without the need for Watermaster approval.

5.1.1.3 Overlying Production Rights may be transferred pursuant to the provisions of Paragraph 16 of this Judgment.

5.1.1.4 Overlying Production Rights are subject to Pro-Rata Reduction or Increase only pursuant to Paragraph 18.5.10.

5.1.2 Non-Pumper Class Rights. The Non-Pumper Class members claim the right to Produce Groundwater from the Native Safe Yield for reasonable and beneficial uses on their overlying land as provided for in this Judgment. On September 22, 2011, the Court approved the Non-Pumper Class Stipulation of Settlement through an amended final judgment that settled the Non-Pumper Class' claims against the Public Water Suppliers ("Non-Pumper Class Judgment"). A copy of the Non-Pumper Class Judgment and the Non-Pumper Class Stipulation of Settlement are attached for reference only as Appendices A and B. This Judgment is consistent with the Non-Pumper Class Stipulation of Settlement and Judgment. Future Production by a member of the Non-Pumper Class is addressed in the Physical Solution.

5.1.2.1 The Non-Pumper Class members shall have no right to transfer water pursuant to this Judgment.

5.1.3 Small Pumper Class Production Rights. Subject only to the closure of the Small Pumper Class membership, the Small Pumper Class's aggregate Production Right is 3806.4 acre-feet per Year. Allocation of water to the Small Pumper Class is set at an average Small Pumper Class Member amount of 1.2 acre-feet per existing household or parcel based upon the 3172 known Small Pumper Class Member parcels at the time of this Judgment. Any Small Pumper Class Member may Produce up to and including 3 acre-feet per Year per existing household for reasonable and beneficial use on their overlying land, and such Production will not be subject to Replacement Water Assessment. Production by any Small Pumper Class Member above 3 acre-feet per Year per household or parcel will be subject to Replacement Water Assessment, as set forth in this Judgment. Administrative Assessments for unmetered Production by Small Pumper Class Members shall be set based upon the allocation of 1.2 acre-feet per Year per household or parcel, whichever is the case; metered Production shall be assessed in accord with the actual Production. A Small Pumper Class Member who is lawfully, by permit, operating a shared well with an adjoining Small Pumper Class Member, shall have all of the same rights and obligations under this Judgment without regard to the location of the shared well, and such shared use is not considered a prohibited transfer of a pumping right under Paragraph 5.1.3.3.

5.1.3.1 The Production of Small Pumper Class Members of up to 3 acre-feet per Year of Groundwater per household or per parcel for reasonable and beneficial use shall only be subject to reduction if: (1) the reduction is based upon a statistically credible study and analysis of the Small Pumper Class' actual Native Safe Yield Production, as well as the nature of the use of such Native Safe Yield, over at least a three Year period; and (2) the reduction is mandated by Court order after notice to the Small Pumper Class Members affording a reasonable opportunity for the Court to hear any Small Pumper Class Member objections to such reduction, including a determination that Water Code section 106 may apply so as to prevent a reduction.

5.1.3.2 The primary means for monitoring the Small Pumper Class Members' Groundwater use under the Physical Solution will be based on physical inspection by

the Watermaster, including the use of aerial photographs and satellite imagery. All Small Pumper Class Members agree to permit the Watermaster to subpoena the electrical meter records associated with their Groundwater wells on an annual basis. Should the Watermaster develop a reasonable belief that a Small Pumper Class Member household is using in excess of 3 acre-feet per Year, the Watermaster may cause to be installed a meter on such Small Pumper Class Member's well at the Small Pumper Class Member's expense.

5.1.3.3 The pumping rights of Small Pumper Class Members are not transferable separately from the parcel of property on which the water is pumped, provided however a Small Pumper Class Member may move their water right to another parcel owned by that Small Pumper Class Member with approval of the Court. If a Small Pumper Class Member parcel is sold, absent a written contract stating otherwise and subject to the provisions of this Judgment, the water right for that Small Pumper Class Member parcel shall transfer to the new owners of that Small Pumper Class Member parcel. The pumping rights of Small Pumper Class Members may not be aggregated for use by a purchaser of more than one Small Pumper Class Member's property.

5.1.3.4 Defaults or default judgments entered against any Small Pumper Class Member who did not opt out of the Small Pumper Class are hereby deemed non-operative and vacated *nunc pro tunc*, but only with respect to their ownership of real property meeting the Small Pumper Class definition.

5.1.3.5 The Small Pumper Class shall be permanently closed to new membership upon issuance by the Court of its order granting final approval of the Small Pumper Class Settlement (the "Class Closure Date"), after the provision of notice to the Class of the Class Closure Date. Any Person or entity that does not meet the Small Pumper Class definition prior to the Class Closure Date is not a Member of the Small Pumper Class. Similarly, any additional household constructed on a Small Pumper Class Member parcel after the Class Closure Date is not entitled to a Production Right as set forth in Paragraphs 5.1.3 and 5.1.3.1.

5.1.3.6 Unknown Small Pumper Class Members are defined as: (1) those Persons or entities that are not identified on the list of known Small Pumper Class Members maintained by class counsel and supervised and controlled by the Court as of the Class Closure Date; and (2) any unidentified households existing on a Small Pumper Class Member parcel prior to the Class Closure Date. Within ten (10) Court days of the Class Closure Date, class counsel for the Small Pumper Class shall publish to the Court website and file with the Court a list of the known Small Pumper Class Members.

5.1.3.7 Given the limited number of additions to the Small Pumper Class during the more than five Years since the initial notice was provided to the Class, the Court finds that the number of potentially unknown Small Pumper Class Members and their associated water use is likely very low, and any Production by unknown Small Pumper Class Members is hereby deemed to be *de minimis* in the context of this Physical Solution and shall not alter the Production Rights decreed in this Judgment. However, whenever the identity of any unknown Small Pumper Class Member becomes known, that Small Pumper Class Member shall be bound by all provisions of this Judgment, including without limitation, the assessment obligations applicable to Small Pumper Class Members.

5.1.3.8 In recognition of his service as class representative, Richard Wood has a Production Right of up to five 5 acre-feet per Year for reasonable and beneficial use on his parcel free of Replacement Water Assessment. This Production Right shall not be transferable and is otherwise subject to the provisions of this Judgment.

5.1.4 Federal Reserved Water Right. The United States has a right to Produce 7,600 acre-feet per Year from the Native Safe Yield as a Federal Reserved Water Right for use for military purposes at Edwards Air Force Base and Air Force Plant 42. *See Cappaert v. United States*, 426 U.S. 128, 138 (1976); *United States v. New Mexico*, 438 U.S. 696, 700 (1978). Maps of the boundaries of Edwards Air Force Base and Plant 42 are attached hereto as Exhibits 6 and 7. The United States may Produce any or all of this water at any time for uses consistent with the purposes of its Federal Reserved Water Right. Water uses at Edwards Air Force Base and

Plant 42 as of the date of this Judgment are consistent with the military purposes of the facilities. The Federal Reserved Water Right to Produce 7,600 acre-feet per Year is not subject to Rampdown or any reduction including Pro-Rata Reduction due to Overdraft.

5.1.4.1 In the event the United States does not Produce its entire 7,600 acre-feet in any given Year, the unused amount in any Year will be allocated to the Non-Overlying Production Rights holders, except for Boron Community Services District and West Valley County Water District, in the following Year, in proportion to Production Rights set forth in Exhibit 3. This Production of unused Federal Reserved Water Right Production does not increase any Non-Overlying Production Right holder's decreed Non-Overlying Production Right amount or percentage, and does not affect the United States' ability to fully Produce its Federal Reserved Water Right as provided in Paragraph 5.1.4 in any subsequent Year. Upon entry of a judgment confirming its Federal Reserved Water Rights consistent with this Judgment, the United States waives any rights under State law to a correlative share of the Groundwater in the Basin underlying Edwards Air Force Base and Air Force Plant 42.

5.1.4.2 The United States is not precluded from acquiring State law based Production Rights in excess of its Federal Reserved Water Right through the acquisition of Production Rights in the Basin.

5.1.5 State of California Production Rights. The State of California shall have a Production Right of 207 acre-feet per Year from the Native Safe Yield and shall have the additional right to Produce Native Safe Yield as set forth in Paragraphs 5.1.5.3 and 5.1.5.4 below. This Production of Native Safe Yield shall not be subject to Pro-Rata Reduction. Any Production by the State of California above 207 acre-feet per Year that is not Produced pursuant to Paragraphs 5.1.5.3 and 5.1.5.4 below shall be subject to Replacement Assessments. All Production by the State of California shall also be subject to the Administrative Assessment and the Balance Assessment except in emergency situations as provided in Paragraph 5.1.5.4.3 below. Any Production of Native Safe Yield pursuant to Paragraphs 5.1.5.3 and 5.1.5.4 below shall not reduce any other Party's Production Rights pursuant to this Judgment.

5.1.5.1 The State of California's Production Right in the amount of 207 acre-feet per Year is allocated separately to each of the State agencies, departments, and associations as listed below in Paragraph 5.1.5.2. Notwithstanding the separate allocations, any Production Right, or portion thereof, of one of the State agencies, departments, and associations may be transferred or used by the other State agencies, departments, and associations on parcels within the Basin. This transfer shall be done by agreement between the State agencies, departments, or associations without a Replacement Water Assessment and without the need for Watermaster approval. Prior to the transfer of another State agency, department, or association's Production Right, the State agency, department, or association receiving the ability to use the Production Right shall obtain written consent from the transferor. Further, the State agency, department, or association receiving the Production Right shall notify the Watermaster of the transfer.

5.1.5.2 The Production Rights are allocated as follows and may be exercised by the following nine (9) State agencies:

5.1.5.2.1 The California Department of Water Resources-104 acre- feet per Year.

5.1.5.2.2 The California Department of Parks and Recreation-9 acre-feet per Year.

5.1.5.2.3 The California Department of Transportation -47 acre-feet per Year.

5.1.5.2.4 The California State Lands Commission-3 acre-feet per Year

5.1.5.2.5 The California Department of Corrections and Rehabilitation-3 acre-feet per Year.

5.1.5.2.6 The 50th District Agricultural Association-32 acre-feet per Year.

5.1.5.2.7 The California Department of Veteran Affairs-3 acre-feet per Year.

5.1.5.2.8 The California Highway Patrol -3 acre- feet per Year.

5.1.5.2.9 The California Department of Military-3 acre-feet per Year.

5.1.5.3 If at any time, the amount of water supplied to the State of California by District No. 40, AVEK, or Rosamond Community Service District is no longer available or no longer available at reasonable rates to the State of California, the State of California shall have the additional right to Produce Native Safe Yield to meet its reasonable and beneficial needs up to 787 acre-feet per Year, the amount provided by District No. 40, AVEK and Rosamond Community Services District to the State of California in the Year 2013.

5.1.5.4 The following provisions will also apply to each specific agency listed below:

5.1.5.4.1 California Department of Corrections & Rehabilitation (CDCR). In addition to its Production Right pursuant to Paragraphs 5.1.5.2.5 and 5.1.5.3, CDCR may also pump Groundwater: (1) to the extent necessary to conduct periodic maintenance of its well pumping equipment; and (2) as a supplementary source of drinking water or as an emergency back-up supply as set forth in Water Code section 55338.

5.1.5.4.2 California Department of Water Resources (DWR). In addition to its Production pursuant to Paragraphs 5.1.5.2.1 and 5.1.5.3 above, DWR may also pump Native Safe Yield from the area adjacent to and beneath the California Aqueduct and related facilities at a time and in an amount it determines is reasonably necessary to protect the physical integrity of the California Aqueduct and related facilities from high Groundwater. Further, notwithstanding provisions of this Judgment prohibiting the export of Native Safe Yield from the Basin, DWR may place the Native Safe Yield that it pumps for the protection of the California Aqueduct into the California Aqueduct, whether or not such Native Safe Yield is

ultimately returned to the Basin. However, DWR and AVEK shall use their best efforts to enter into an agreement allowing AVEK to recapture the Native Safe Yield DWR puts into the California Aqueduct and return it to the Basin.

5.1.5.4.3 Department of Military. The Department of Military may Produce additional Groundwater in an amount necessary to protect and promote public health and safety during an event deemed to be an emergency by the Department of Military pursuant to California Government Code sections 8567 and 8571, and California Military and Veterans Code sections 143 and 146. Such Production shall be free from any assessment, including any Administrative, Balance, or Replacement Water Assessment.

5.1.5.4.4 The California Department of Veterans Affairs. The California Department of Veteran Affairs has begun the expansion and increased occupancy project of the Veterans Home of California – Lancaster facility owned by the State of California by and on behalf of the California Department of Veterans Affairs. The California Department of Veterans Affairs fully expects that it will be able to purchase up to an additional 40 acre-feet per Year for use at this facility from District No. 40.

5.1.6 Non-Overlying Production Rights. The Parties listed in Exhibit 3 have Production Rights in the amounts listed in Exhibit 3. Exhibit 3 is attached hereto, and incorporated herein by reference. Non-Overlying Production Rights are subject to Pro-Rata Reduction or Increase only pursuant to Paragraph 18.5.10.

5.1.7 City of Lancaster. The City of Lancaster ("Lancaster") can Produce up to 500 acre-feet of Groundwater for reasonable and beneficial uses at its National Soccer Complex. Such production shall only be subject to Administrative Assessment and no other assessments. Lancaster will stop Producing Groundwater and will use Recycled Water supplied from District No. 40, when it becomes available, to meet the reasonable and beneficial water uses of the National Soccer Complex. Lancaster may continue to Produce up to 500 acre-feet of Groundwater until Recycled Water becomes available to serve the reasonable and beneficial water uses of the National Soccer Complex. Nothing in this paragraph shall be

construed as requiring Lancaster to have any responsibility for constructing, or in any way contributing to the cost of, any infrastructure necessary to deliver Recycled Water to the National Soccer Complex.

5.1.8 Antelope Valley Joint Union High School District. Antelope Valley Joint Union High School District is a public school entity duly organized and existing under the laws of the State of California. In addition to the amounts allocated to Antelope Valley Joint Union High School District ("AVJUHSD") and pursuant to Exhibit 4, AVJUHSD can additionally produce up to 29 acre-feet of Groundwater for reasonable and beneficial uses on its athletic fields and other public spaces. When recycled water becomes available to Quartz Hill High School (located at 6040 West Avenue L, Quartz Hill, CA 93535) which is a site that is part of AVJUHSD, at a price equal to or less than the lowest cost of any of the following: Replacement Obligation, Replacement Water, or other water that is delivered to AVJUHSD at Quartz Hill High School, AVJUHSD will stop producing the 29 acre-feet of Groundwater allocated to it and use recycled water as a replacement to its 29 acre-feet production. AVJUHSD retains its production rights and allocation pursuant to Exhibit 4 of this Judgment.

5.1.9 Construction of Solar Power Facilities. Any Party may Produce Groundwater in excess of its Production Right allocated to it in Exhibit 4 for the purpose of constructing a facility located on land overlying the Basin that will generate, distribute or store solar power through and including December 31, 2016 and shall not be charged a Replacement Water Assessment or incur a Replacement Obligation for such Production in excess of its Production Rights. Any amount of such production in excess of the Production Right through and including December 31, 2016 shall be reasonable to accomplish such construction but shall not exceed 500 acre-feet per Year for all Parties using such water.

5.1.10 Production Rights Claimed by Non-Stipulating Parties. Any claim to a right to Produce Groundwater from the Basin by a Non-Stipulating Party shall be subject to procedural or legal objection by any Stipulating Party. Should the Court, after taking evidence, rule that a Non-Stipulating Party has a Production Right, the Non-Stipulating Party

shall be subject to all provisions of this Judgment, including reduction in Production necessary to implement the Physical Solution and the requirements to pay assessments, but shall not be entitled to benefits provided by Stipulation, including but not limited to Carry Over pursuant to Paragraph 15 and Transfers pursuant to Paragraph 16. If the total Production by Non-Stipulating Parties is less than seven percent (7%) of the Native Safe Yield, such Production will be addressed when Native Safe Yield is reviewed pursuant to Paragraph 18.5.9. If the total Production by Non-Stipulating Parties is greater than seven percent (7%) of the Native Safe Yield, the Watermaster shall determine whether Production by Non-Stipulating Parties would cause Material Injury, in which case the Watermaster shall take action to mitigate the Material Injury, including, but not limited to, imposing a Balance Assessment, provided however, that the Watermaster shall not recommend any changes to the allocations under Exhibits 3 and 4 prior to the redetermination of Native Safe Yield pursuant to Paragraph 18.5.9. In all cases, however, whenever the Watermaster re-determines the Native Safe Yield pursuant to Paragraph 18.5.9, the Watermaster shall take action to prevent Native Safe Yield Production from exceeding the Native Safe Yield on a long-term basis.

5.2 Rights to Imported Water Return Flows.

5.2.1 Rights to Imported Water Return Flows. Return Flows from Imported Water used within the Basin which net augment the Basin Groundwater supply are not a part of the Native Safe Yield. Subject to review pursuant to Paragraph 18.5.11, Imported Water Return Flows from Agricultural Imported Water use are 34% and Imported Water Return Flows from Municipal and Industrial Imported Water use are 39% of the amount of Imported Water used.

5.2.2 Water Imported Through AVEK. The right to Produce Imported Water Return Flows from water imported through AVEK belongs exclusively to the Parties identified on Exhibit 8, attached hereto, and incorporated herein by reference. Each Party shown on Exhibit 8 shall have a right to Produce an amount of Imported Water Return Flows in any Year equal to the applicable percentage multiplied by the average amount of Imported Water used

by that Party within the Basin in the preceding five Year period (not including Imported Stored Water in the Basin). Any Party that uses Imported Water on lands outside the Basin but within the watershed of the Basin shall be entitled to Produce Imported Water Return Flows to the extent such Party establishes to the satisfaction of the Watermaster the amount that its Imported Water Return Flows augment the Basin Groundwater supply. This right shall be in addition to that Party's Overlying or Non-Overlying Production Right. Production of Imported Water Return Flows is not subject to the Replacement Water Assessment. All Imported Water Return Flows from water imported through AVEK and not allocated to Parties identified in Exhibit 8 belong exclusively to AVEK, unless otherwise agreed by AVEK. Notwithstanding the foregoing, Boron Community Services District shall have the right to Produce Imported Water Return Flows, up to 78 acre-feet annually, based on the applicable percentage multiplied by the average amount of Imported Water used by Boron Community Services District outside the Basin, but within its service area in the preceding five Year period (not including Imported Stored Water in the Basin) without having to establish that the Imported Water Return Flows augment the Basin Groundwater supply.

5.2.3 Water Not Imported Through AVEK. After entry of this Judgment, a Party other than AVEK that brings Imported Water into the Basin from a source other than AVEK shall notify the Watermaster each Year quantifying the amount and uses of the Imported Water in the prior Year. The Party bringing such Imported Water into the Basin shall have a right to Produce an amount of Imported Water Return Flows in any Year equal to the applicable percentage set forth above multiplied by the average annual amount of Imported Water used by that Party within the Basin in the preceding five Year period (not including Imported Stored Water in the Basin).

5.3 Rights to Recycled Water. The owner of a waste water treatment plant operated for the purpose of treating wastes from a sanitary sewer system shall hold the exclusive right to the Recycled Water as against anyone who has supplied the water discharged into the waste water collection and treatment system. At the time of this Judgment those Parties that

produce Recycled Water are Los Angeles County Sanitation Districts No. 14 and No. 20, Rosamond Community Services District, and Edwards Air Force Base. Nothing in this Judgment affects or impairs this ownership or any existing or future agreements for the use of Recycled Water within the Basin.

6. INJUNCTION

6.1 Injunction Against Unauthorized Production. Each and every Party, its officers, directors, agents, employees, successors, and assigns, except for the United States, is ENJOINED AND RESTRAINED from Producing Groundwater from the Basin except pursuant to this Judgment. Without waiving or foreclosing any arguments or defenses it might have, the United States agrees that nothing herein prevents or precludes the Watermaster or any Party from seeking to enjoin the United States from Producing water in excess of its 7,600 acre-foot per Year Reserved Water Right if and to the extent the United States has not paid the Replacement Assessments for such excess Production or entered into written consent to the imposition of Replacement Assessments as described in Paragraph 9.2.

6.2 Injunction Re Change in Purpose of Use Without Notice to The Watermaster. Each and every Party, its officers, directors, agents, employees, successors, and assigns, is ENJOINED AND RESTRAINED from changing its Purpose of Use of Groundwater at any time without notifying the Watermaster.

6.3 Injunction Against Unauthorized Capture of Stored Water. Each and every Party, its officers, directors, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from claiming any right to Produce the Stored Water that has been recharged in the Basin, except pursuant to a Storage Agreement with the Watermaster, and as allowed by this Judgment, or pursuant to water banking operations in existence and operating at the time of this Judgment as identified in Paragraph 14. This Paragraph does not prohibit Parties from importing water into the Basin for direct use, or from Producing or using Imported Water Return Flows owned by such Parties pursuant to Paragraph 5.2.

6.4 Injunction Against Transportation From Basin. Except upon further order of the Court, each and every Party, its officers, agents, employees, successors and assigns, is ENJOINED AND RESTRAINED from transporting Groundwater hereafter Produced from the Basin to areas outside the Basin except as provided for by the following. The United States may transport water Produced pursuant to its Federal Reserved Water Right to any portion of Edwards Air Force Base, whether or not the location of use is within the Basin. This injunction does not prevent Saint Andrew's Abbey, Inc., U.S. Borax and Tejon Ranchcorp/Tejon Ranch Company from conducting business operations on lands both inside and outside the Basin boundary, and transporting Groundwater Produced consistent with this Judgment for those operations and for use on those lands outside the Basin and within the watershed of the Basin as shown in Exhibit 9. This injunction also does not apply to any California Aqueduct protection dewatering Produced by the California Department of Water Resources. This injunction does not apply to the recovery and use of stored Imported Water by any Party that stores Imported Water in the Basin pursuant to Paragraph 14 of this Judgment.

6.4.1 Export by Boron and Phelan Piñon Hills Community Services Districts.

6.4.1.1 The injunction does not prevent Boron Community Services District from transporting Groundwater Produced consistent with this Judgment for use outside the Basin, provided such water is delivered within its service area.

6.4.1.2 The injunction does not apply to any Groundwater Produced within the Basin by Phelan Piñon Hills Community Services District and delivered to its service areas, so long as the total Production does not exceed 1,200 acre-feet per Year, such water is available for Production without causing Material Injury, and the District pays a Replacement Water Assessment pursuant to Paragraph 9.2, together with any other costs deemed necessary to protect Production Rights decreed herein, on all water Produced and exported in this manner.

6.5 Continuing Jurisdiction. The Court retains and reserves full jurisdiction, power and authority for the purpose of enabling the Court, upon a motion of a Party or Parties

noticed in accordance with the notice procedures of Paragraph 20.6 hereof, to make such further or supplemental order or directions as may be necessary or appropriate to interpret, enforce, administer or carry out this Judgment and to provide for such other matters as are not contemplated by this Judgment and which might occur in the future, and which if not provided for would defeat the purpose of this Judgment.

III. PHYSICAL SOLUTION

7. GENERAL

7.1 Purpose and Objective. The Court finds that the Physical Solution incorporated as part of this Judgment: (1) is a fair and equitable basis for satisfaction of all water rights in the Basin; (2) is in furtherance of the State Constitution mandate and the State water policy; and (3) takes into account water rights priorities, applicable public trust interests and the Federal Reserved Water Right. The Court finds that the Physical Solution establishes a legal and practical means for making the maximum reasonable and beneficial use of the waters of the Basin by providing for the long-term Conjunctive Use of all available water in order to meet the reasonable and beneficial use requirements of water users in the Basin. Therefore, the Court adopts, and orders the Parties to comply with this Physical Solution.

7.2 Need For Flexibility. This Physical Solution must provide flexibility and adaptability to allow the Court to use existing and future technological, social, institutional, and economic options in order to maximize reasonable and beneficial water use in the Basin.

7.3 General Pattern of Operations. A fundamental premise of the Physical Solution is that all Parties may Produce sufficient water to meet their reasonable and beneficial use requirements in accordance with the terms of this Judgment. To the extent that Production by a Producer exceeds such Producer's right to Produce a portion of the Total Safe Yield as provided in this Judgment, the Producer will pay a Replacement Water Assessment to the Watermaster and the Watermaster will provide Replacement Water to replace such excess production according to the methods set forth in this Judgment.

7.4 Water Rights. A Physical Solution for the Basin based upon a declaration of water rights and a formula for allocation of rights and obligations is necessary to implement the mandate of Article X, section 2 of the California Constitution. The Physical Solution requires quantifying the Producers' rights within the Basin in a manner which will reasonably allocate the Native Safe Yield and Imported Water Return Flows and which will provide for sharing Imported Water costs. Imported Water sources are or will be available in amounts which, when combined with water conservation, water reclamation, water transfers, and improved conveyance and distribution methods within the Basin, will be sufficient in quantity and quality to assure implementation of the Physical Solution. Sufficient information and data exists to allocate existing water supplies, taking into account water rights priorities, within the Basin and as among the water users. The Physical Solution provides for delivery and equitable distribution of Imported Water to the Basin.

8. RAMPDOWN

8.1 Installation of Meters. Within two (2) Years from the entry of this Judgment all Parties other than the Small Pumper Class shall install meters on their wells for monitoring Production. Each Party shall bear the cost of installing its meter(s). Monitoring or metering of Production by the Small Pumper Class shall be at the discretion of the Watermaster, subject to the provisions of Paragraph 5.1.3.2.

8.2 Rampdown Period. The "Rampdown Period" is seven Years beginning on the January 1 following entry of this Judgment and continuing for the following seven (7) Years.

8.3 Reduction of Production During Rampdown. During the first two Years of the Rampdown Period no Producer will be subject to a Replacement Water Assessment. During Years three through seven of the Rampdown Period, the amount that each Party may Produce from the Native Safe Yield will be progressively reduced, as necessary, in equal annual increments, from its Pre-Rampdown Production to its Production Right. Except as is determined to be exempt during the Rampdown period pursuant to the Drought Program provided for in

Paragraph 8.4, any amount Produced over the required reduction shall be subject to Replacement Water Assessment. The Federal Reserved Water Right is not subject to Rampdown.

8.4 Drought Program During Rampdown for Participating Public Water Suppliers. During the Rampdown period a drought water management program ("Drought Program") will be implemented by District No. 40, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, and Palm Ranch Irrigation District, (collectively, "Drought Program Participants"), as follows:

8.4.1 During the Rampdown period, District No. 40 agrees to purchase from AVEK each Year at an amount equal to 70 percent of District No. 40's total annual demand if that amount is available from AVEK at no more than the then current AVEK treated water rate. If that amount is not available from AVEK, District No. 40 will purchase as much water as AVEK makes available to District No. 40 at no more than the then current AVEK treated water rate. Under no circumstances will District No. 40 be obligated to purchase more than 50,000 acre-feet of water annually from AVEK. Nothing in this Paragraph affects AVEK's water allocation procedures as established by its Board of Directors and AVEK's Act.

8.4.2 During the Rampdown period, the Drought Program Participants each agree that, in order to minimize the amount of excess Groundwater Production in the Basin, they will use all water made available by AVEK at no more than the then current AVEK treated water rate in any Year in which they Produce Groundwater in excess of their respective rights to Produce Groundwater under this Judgment. During the Rampdown period, no Production by a Drought Program Participant shall be considered excess Groundwater Production exempt from a Replacement Water Assessment under this Drought Program unless a Drought Program Participant has utilized all water supplies available to it including its Production Right to Native Safe Yield, Return Flow rights, unused Production allocation of the Federal Reserved Water Rights, Imported Water, and Production rights previously transferred from another party. Likewise, no Production by a Drought Program Participant will be considered excess

Groundwater Production exempt from a Replacement Water Assessment under this Drought Program in any Year in which the Drought Program Participant has placed water from such sources described in this Paragraph 8.4.2 into storage or has transferred such water to another Person or entity.

8.4.3 During the Rampdown period, the Drought Program Participants will be exempt from the requirement to pay a Replacement Water Assessment for Groundwater Production in excess of their respective rights to Produce Groundwater under this Judgment up to a total of 40,000 acre-feet over the Rampdown Period with a maximum of 20,000 acre-feet in any single Year for District No. 40 and a total of 5,000 acre-feet over the Rampdown Period for all other Drought Program Participants combined. During any Year that excess Groundwater is produced under this Drought Program, all Groundwater Production by the Drought Program Participants will be for the purpose of a direct delivery to customers served within their respective service areas and will not be transferred to other users within the Basin.

8.4.4 Notwithstanding the foregoing, the Drought Program Participants remain subject to the Material Injury limitation as provided in this Judgment.

8.4.5 Notwithstanding the foregoing, the Drought Program Participants remain subject to a Balance Assessment as provided in Paragraph 9.3 of this Judgment.

9. ASSESSMENTS.

9.1 Administrative Assessment. Administrative Assessments to fund the Administrative Budget adopted by the Watermaster shall be levied uniformly on an annual basis against (1) each acre foot of a Party's Production Right as described in Paragraph 5.1, (2) each acre foot of a Party's right to Produce Imported Water Return Flows as determined pursuant to Paragraph 5.2, (3) each acre foot of a Party's Production for which a Replacement Water Assessment has been imposed pursuant to Paragraph 9.2, and (4) during the Rampdown, each acre foot of a Party's Production in excess of (1)-(3), above, excluding Production from Stored Water and/or Carry Over water, except that the United States shall be subject to the Administrative Assessment only on the actual Production of the United States. During the

Rampdown the Administrative Assessment shall be no more than five (5) dollars per acre foot, or as ordered by the Court upon petition of the Watermaster. Non-Overlying Production Rights holders using the unused Production allocation of the Federal Reserved Water Right shall be subject to Administrative Assessments on water the Non-Overlying Production Rights holders Produce pursuant to Paragraph 5.1.4.1.

9.2 Replacement Water Assessment. In order to ensure that each Party may fully exercise its Production Right, there will be a Replacement Water Assessment. Except as is determined to be exempt during the Rampdown period pursuant to the Drought Program provided for in Paragraph 8.4, the Watermaster shall impose the Replacement Water Assessment on any Producer whose Production of Groundwater from the Basin in any Year is in excess of the sum of such Producer's Production Right and Imported Water Return Flow available in that Year, provided that no Replacement Water Assessment shall be imposed on the United States except upon the United States' written consent to such imposition based on the appropriation by Congress, and the apportionment by the Office of Management and Budget, of funds that are available for the purpose of, and sufficient for, paying the United States' Replacement Water Assessment. The Replacement Water Assessment shall not be imposed on the Production of Stored Water, In-Lieu Production or Production of Imported Water Return Flows. The amount of the Replacement Water Assessment shall be the amount of such excess Production multiplied by the cost to the Watermaster of Replacement Water, including any Watermaster spreading costs. All Replacement Water Assessments collected by the Watermaster shall be used to acquire Imported Water from AVEK, Littlerock Creek Irrigation District, Palmdale Water District, or other entities. AVEK shall use its best efforts to acquire as much Imported Water as possible in a timely manner. If the Watermaster encounters delays in acquiring Imported Water which, due to cost increases, results in collected assessment proceeds being insufficient to purchase all Imported Water for which the Assessments were made, the Watermaster shall purchase as much water as the proceeds will allow when the water becomes available. If available Imported Water is insufficient to fully meet the Replacement Water obligations under contracts, the Watermaster

shall allocate the Imported Water for delivery to areas on an equitable and practicable basis pursuant to the Watermaster rules and regulations.

9.2.1 The Non-Pumper Class Stipulation of Settlement, executed by its signatories and approved by the Court in the Non-Pumper Class Judgment, specifically provides for imposition of a Replacement Water Assessment on Non-Pumper Class members. This Judgment is consistent with the Non-Pumper Class Stipulation of Settlement and Judgment. The Non-Pumper Class members specifically agreed to pay a replacement assessment if that member produced "more than its annual share" of the Native Safe Yield less the amount of the Federal Reserved Right. (See Appendix B at paragraph V., section D. Replacement Water.) In approving the Non-Pumper Class Stipulation of Settlement this Court specifically held in its Order after Hearing dated November 18, 2010, that "the court determination of physical solution cannot be limited by the Class Settlement." The Court also held that the Non-Pumper Class Stipulation of Settlement "may not affect parties who are not parties to the settlement."

9.2.2 Evidence presented to the Court demonstrates that Production by one or more Public Water Suppliers satisfies the elements of prescription and that Production by overlying landowners during portion(s) of the prescriptive period exceeded the Native Safe Yield. At the time of this Judgment the entire Native Safe Yield is being applied to reasonable and beneficial uses in the Basin. Members of the Non-Pumper Class do not and have never Produced Groundwater for reasonable beneficial use as of the date of this Judgment. Pursuant to *Pasadena v. Alhambra* (1949) 33 Cal 2d 908, 931-32 and other applicable law, the failure of the Non-Pumper Class members to Produce any Groundwater under the facts here modifies their rights to Produce Groundwater except as provided in this Judgment. Because this is a comprehensive adjudication pursuant to the McCarran Amendment, consistent with the California Supreme Court decisions, including *In Re Waters of Long Valley Creek Stream System* (1979) 25 Cal. 3d 339, this Court makes the following findings: (1) certainty fosters reasonable and beneficial use of water and is called for by the mandate of Article X, section 2; (2) because of this mandate for certainty and in furtherance of the Physical Solution, any New Production, including that by a

member of the Non-Pumper Class must comply with the New Production Application Procedure specified in Paragraph 18.5.13; (3) as of this Judgment no member of the Non-Pumper Class has established a Production Right to the reasonable and beneficial use of Groundwater based on their unexercised claim of right to Produce Groundwater; (4) if in the future a member of the Non-Pumper Class proposes to Produce Groundwater for reasonable and beneficial use, the Watermaster as part of the New Production Application Procedure, has the authority to determine whether such a member has established that the proposed New Production is a reasonable and beneficial use in the context of other existing uses of Groundwater and then-current Basin conditions; and (5) the Watermaster's determinations as to the approval, scope, nature and priority of any New Production is reasonably necessary to the promotion of the State's interest in fostering the most reasonable and beneficial use of its scarce water resources. All provisions of this Judgment regarding the administration, use and enforcement of the Replacement Water Assessment shall apply to each Non-Pumper Class member that Produces Groundwater. Prior to the commencement of Production, each Producing Non-Pumper Class member shall install a meter and report Production to the Watermaster. The Court finds that this Judgment is consistent with the Non-Pumper Stipulation of Settlement and Judgment.

9.3 Balance Assessment. In order to ensure that after Rampdown each Party may fully exercise its Production Right, there may be a Balance Assessment imposed by the Watermaster. The Balance Assessment shall be assessed on all Production Rights, excluding the United States' actual Production, but including that portion of the Federal Reserved Right Produced by other Parties, in an amount determined by the Watermaster. A Balance Assessment may not be imposed until after the end of the Rampdown. In determining whether to adopt a Balance Assessment, and in what amount, the Watermaster Engineer shall consider current Basin conditions as well as then-current pumping existing after Rampdown exclusive of any consideration of an effect on then-current Basin conditions relating to Production of Groundwater pursuant to the Drought Program which occurred during the Rampdown, and shall only assess a

Balance Assessment or curtail a Party's Production under section 9.3.4 below, to avoid or mitigate Material Injury that is caused by Production after the completion of the Rampdown.

9.3.1 Any proceeds of the Balance Assessment will be used to purchase, deliver, produce in lieu, or arrange for alternative pumping sources of water in the Basin, but shall not include infrastructure costs.

9.3.2 The Watermaster Engineer shall determine and collect from any Party receiving direct benefit of the Balance Assessment proceeds an amount equal to that Party's avoided Production costs.

9.3.3 The Balance Assessment shall not be used to benefit the United States unless the United States participates in paying the Balance Assessment.

9.3.4 The Watermaster Engineer may curtail the exercise of a Party's Production Right under this Judgment, except the United States' Production, if it is determined necessary to avoid or mitigate a Material Injury to the Basin and provided that the Watermaster provides an equivalent quantity of water to such Party as a substitute water supply, with such water paid for from the Balance Assessment proceeds.

10. SUBAREAS. Subject to modification by the Watermaster the following Subareas are recognized:

10.1 Central Antelope Valley Subarea. The Central Antelope Valley Subarea is the largest of the five Subareas and underlies Rosamond, Quartz Hill, Lancaster, Edwards AFB and much of Palmdale. This Subarea also contains the largest amount of remaining agricultural land use in the Basin. The distinctive geological features of the Central Antelope Valley Subarea are the presence of surficial playa and pluvial lake deposits; the widespread occurrence of thick, older pluvial lake bed deposits; and alluvial deposits from which Groundwater is produced above and below the lake bed deposits. The Central Antelope Valley Subarea is defined to be east of the largely buried ridge of older granitic and tertiary rocks exposed at Antelope Buttes and extending beyond Little Buttes and Tropico Hill. The Central Subarea is defined to be southwest and

northeast of the extension of the Buttes Fault, and northwest of an unnamed fault historically identified from Groundwater level differences, as shown on Exhibit 10.

10.2 **West Antelope Valley Subarea**. The West Antelope Valley Subarea is the second largest subarea. The area is characterized by a lack of surficial lake bed deposits, and little evidence of widespread subsurface lake beds, and thick alluvial deposits. The Western Antelope Valley Subarea is defined to be south of the Willow Springs-Cottonwood Fault and west of a largely buried ridge of older granitic and tertiary rocks that are exposed at Antelope Buttes and Little Buttes, and continue to Tropico Hill, as shown on Exhibit 10.

10.3 **South East Subarea**. The South East Subarea is characterized by granitic buttes to the north, shallow granitic rocks in the southwest, and a lack of lake bed deposits. The South East Subarea is defined to encompass the remainder of the Basin from the unnamed fault between the Central and South East subareas, to the county-line boundary of the Basin. Notably, this area contains Littlerock and Big Rock creeks that emanate from the mountains to the south and discharge onto the valley floor.

10.4 **Willow Springs Subarea.** The Willow Springs Subarea is separated from the West Antelope Subarea primarily because the Willow Springs fault shows some signs of recent movement and there is substantial Groundwater hydraulic separation between the two adjacent areas, suggesting that the fault significantly impedes Groundwater flow from the Willow Springs to the lower West Antelope Subarea. Otherwise, the Willow Springs Subarea is comparable in land use to the West Antelope Subarea, with some limited agricultural land use and no municipal development, as shown on Exhibit 10.

10.5 **Rogers Lake Subarea**. The Rogers Lake Subarea is characterized by surficial pluvial Lake Thompson and playa deposits, and a narrow, fault-bound, central trough filled with alluvial deposits. The area is divided into north and south subareas on opposite sides of a buried ridge of granite rock in the north lake, as shown on Exhibit 10.

11. INCREASE IN PRODUCTION BY THE UNITED STATES.

11.1 Notice of Increase of Production Under Federal Reserved Water Right. After the date of entry of this Judgment, the United States shall provide the Watermaster with at least ninety (90) days advanced notice if Production by the United States is reasonably anticipated to increase more than 200 acre-feet per Year in a following 12 month period.

11.2 Water Substitution to Reduce Production by United States. The United States agrees that maximizing Imported Water is essential to improving the Basin's health and agrees that its increased demand can be met by either increasing its Production or by accepting deliveries of Imported Water of sufficient quality to meet the purpose of its Federal Reserved Water Right under the conditions provided for herein. Any Party may propose a water substitution or replacement to the United States to secure a reduction in Groundwater Production by the United States. Such an arrangement would be at the United States' sole discretion and subject to applicable federal law, regulations and other requirements. If such a substitution or replacement arrangement is agreed upon, the United States shall reduce Production by the amount of Replacement Water provided to it, and the Party providing such substitution or replacement of water to the United States may Produce a corresponding amount of Native Safe Yield free from Replacement Water Assessment in addition to their Production Right.

12. MOVEMENT OF PUBLIC WATER SUPPLIERS PRODUCTION FACILITIES.

12.1 No Requirement to Move Public Water Suppliers' Production Wells. One or more of the Public Water Suppliers intend to seek Federal or State legislation to pay for all costs related to moving the Public Water Suppliers Production wells to areas that will reduce the impact of Public Water Supplier Production on the United States' current Production wells. The Public Water Suppliers shall have no responsibility to move any Production wells until Federal or State legislation fully funding the costs of moving the wells is effective or until required to do so by order of this Court which order shall not be considered or made by this Court until the seventeenth (17th) Year after entry of this Judgment. The Court may only make such an order if it finds that the Public Water Supplier Production from those wells is causing Material

Injury. The Court shall not impose the cost of moving the Public Water Supplier Production Facilities on any non-Public Water Supplier Party to this Judgment.

13. FEDERAL APPROVAL. This Judgment is contingent on final approval by the Department of Justice. Such approval will be sought upon final agreement of the terms of this Judgment by the settling Parties. Nothing in this Judgment shall be interpreted or construed as a commitment or requirement that the United States obligate or pay funds in contravention of the Anti-Deficiency Act, 31 U.S.C. § 1341, or any other applicable provision of law. Nothing in this Judgment, specifically including Paragraphs 9.1, 9.2 and 9.3, shall be construed to deprive any federal official of the authority to revise, amend, or promulgate regulations. Nothing in this Judgment shall be deemed to limit the authority of the executive branch to make recommendations to Congress on any particular piece of legislation. Nothing in this Judgment shall be construed to commit a federal official to expend federal funds not appropriated by Congress. To the extent that the expenditure or advance of any money or the performance of any obligation of the United States under this Judgment is to be funded by appropriation of funds by Congress, the expenditure, advance, or performance shall be contingent upon the appropriation of funds by Congress that are available for this purpose and the apportionment of such funds by the Office of Management and Budget and certification by the appropriate Air Force official that funding is available for this purpose, and an affirmative obligation of the funds for payment made by the appropriate Air Force official. No breach of this Judgment shall result and no liability shall accrue to the United States in the event such funds are not appropriated or apportioned.

14. STORAGE. All Parties shall have the right to store water in the Basin pursuant to a Storage Agreement with the Watermaster. If Littlerock Creek Irrigation District or Palmdale Water District stores Imported Water in the Basin it shall not export from its service area that Stored Water. AVEK, Littlerock Creek Irrigation District or Palmdale Water District may enter into exchanges of their State Water Project "Table A" Amounts. Nothing in this Judgment limits or modifies operation of preexisting banking projects (including AVEK, District No. 40, Antelope Valley Water Storage LLC, Tejon Ranchcorp and Tejon Ranch Company, Sheep Creek Water

Co., Rosamond Community Services District and Palmdale Water District) or performance of preexisting exchange agreements of the Parties. The Watermaster shall promptly enter into Storage Agreements with the Parties at their request. The Watermaster shall not enter into Storage Agreements with non-Parties unless such non-Parties become expressly subject to the provisions of this Judgment and the jurisdiction of the Court. Storage Agreements shall expressly preclude operations which will cause a Material Injury on any Producer. If, pursuant to a Storage Agreement, a Party has provided for pre-delivery or post-delivery of Replacement Water for the Party's use, the Watermaster shall credit such water to the Party's Replacement Water Obligation at the Party's request. Any Stored Water that originated as State Water Project water imported by AVEK, Palmdale Water District or Littlerock Creek Irrigation District may be exported from the Basin for use in a portion of the service area of any city or public agency, including State Water Project Contractors, that are Parties to this action at the time of this Judgment and whose service area includes land outside the Basin. AVEK may export any of its Stored State Project Water to any area outside its jurisdictional boundaries and the Basin provided that all water demands within AVEK's jurisdictional boundaries are met. Any Stored Water that originated as other Imported Water may be exported from the Basin, subject to a requirement that the Watermaster make a technical determination of the percentage of the Stored Water that is unrecoverable and that such unrecoverable Stored Water is dedicated to the Basin.

15. CARRY OVER

15.1 In Lieu Production Right Carry Over. Any Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 can utilize In Lieu Production by purchasing Imported Water and foregoing Production of a corresponding amount of the annual Production of Native Safe Yield provided for in Paragraph 5 herein. In Lieu Production must result in a net reduction of annual Production from the Native Safe Yield in order to be entitled to the corresponding Carry Over benefits under this paragraph. In Lieu Production does not make additional water from the Native Safe Yield available to any other Producer. If a Producer foregoes pumping and uses Imported Water In Lieu of Production, the Producer may Carry Over its right to the unproduced portion of

its Production Right for up to ten (10) Years. A Producer must Produce its full current Year's Production Right before any Carry Over water is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

15.2 Imported Water Return Flow Carry Over. If a Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 fails to Produce its full amount of Imported Water Return Flows in the Year following the Year in which the Imported Water was brought into the Basin, the Producer may Carry Over its right to the unproduced portion of its Imported Water Return Flows for up to ten (10) Years. A Producer must Produce its full Production Right before any Carry Over water, or any other water, is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

15.3 Production Right Carry Over. If a Producer identified in Paragraph 5.1.1, 5.1.5 and 5.1.6 fails to Produce its full Production Right in any Year, the Producer may Carry Over its right to the unproduced portion of its Production Right for up to ten (10) Years. A

Producer must Produce its full Production Right before any Carry Over water, or any other water, is Produced. Carry Over water will be Produced on a first-in, first-out basis. At the end of the Carry Over period, the Producer may enter into a Storage Agreement with the Watermaster to store unproduced portions, subject to terms and conditions in the Watermaster's discretion. Any such Storage Agreements shall expressly preclude operations, including the rate and amount of extraction, which will cause a Material Injury to another Producer or Party, any subarea or the Basin. If not converted to a Storage Agreement, Carry Over water not Produced by the end of the tenth Year reverts to the benefit of the Basin and the Producer no longer has a right to the Carry Over water. The Producer may transfer any Carry Over water or Carry Over water stored pursuant to a Storage Agreement.

16. TRANSFERS.

16.1 When Transfers are Permitted. Pursuant to terms and conditions to be set forth in the Watermaster rules and regulations, and except as otherwise provided in this Judgment, Parties may transfer all or any portion of their Production Right to another Party so long as such transfer does not cause Material Injury. All transfers are subject to hydrologic review by the Watermaster Engineer.

16.2 Transfers to Non-Overlying Production Right Holders. Overlying Production Rights that are transferred to Non-Overlying Production Right holders shall remain on Exhibit 4 and be subject to adjustment as provided in Paragraph 18.5.10, but may be used anywhere in the transferee's service area.

16.3 Limitation on Transfers of Water by Antelope Valley United Mutuals Group. After the date of this Judgment, any Overlying Production Rights pursuant to Paragraph 5.1.1, rights to Imported Water Return Flows pursuant to Paragraph 5.2, rights to Recycled Water pursuant to Paragraph 5.3 and Carry Over water pursuant to Paragraph 15 (including any water banked pursuant to a Storage Agreement with the Watermaster) that are at any time held by any member of the Antelope Valley United Mutuals Group may only be transferred to or amongst other members of the Antelope Valley United Mutuals Group, except as provided in Paragraph

16.3.1. Transfers amongst members of the Antelope Valley United Mutuals Group shall be separately reported in the Annual Report of the Watermaster pursuant to Paragraphs 18.4.8 and 18.5.17. Transfers amongst members of the Antelope Valley United Mutuals Group shall not be deemed to constitute an abandonment of any member's non-transferred rights.

16.3.1 Nothing in Paragraph 16.3 shall prevent Antelope Valley United Mutuals Group members from transferring Overlying Production Rights to Public Water Suppliers who assume service of an Antelope Valley United Mutuals Group member's shareholders.

16.4 Notwithstanding section 16.1, the Production Right of Boron Community Services District shall not be transferable. If and when Boron Community Services District permanently ceases all Production of Groundwater from the Basin, its Production Right shall be allocated to the other holders of Non-Overlying Production Rights, except for West Valley County Water District, in proportion to those rights.

17. CHANGES IN POINT OF EXTRACTION AND NEW WELLS. Parties may change the point of extraction for any Production Right to another point of extraction so long as such change of the point of extraction does not cause Material Injury. A replacement well for an existing point of extraction which is located within 300 feet of a Party's existing well shall not be considered a change in point of extraction.

17.1 Notice of New Well. Any Party seeking to construct a new well in order to change the point of extraction for any Production Right to another point of extraction shall notify the Watermaster at least 90 days in advance of drilling any well of the location of the new point of extraction and the intended place of use of the water Produced.

17.2 Change in Point of Extraction by the United States. The point(s) of extraction for the Federal Reserved Water Right may be changed, at the sole discretion of the United States, and not subject to the preceding limitation on Material Injury, to any point or points within the boundaries of Edwards Air Force Base or Plant 42. The point(s) of extraction for the Federal Reserved Water Right may be changed to points outside the boundaries of

Edwards Air Force Base or Plant 42, provided such change in the point of extraction does not cause Material Injury. In exercising its discretion under this Paragraph 17.2, the United States shall consider information in its possession regarding the effect of Production from the intended new point of extraction on the Basin, and on other Producers. Any such change in point(s) of extraction shall be at the expense of the United States. Nothing in this Paragraph is intended to waive any monetary claim(s) another Party may have against the United States in federal court based upon any change in point of extraction by the United States.

18. WATERMASTER

18.1 Appointment of Initial Watermaster.

18.1.1 Appointment and Composition: The Court hereby appoints a Watermaster. The Watermaster shall be a five (5) member board composed of one representative each from AVEK and District No. 40, a second Public Water Supplier representative selected by District No. 40, Palmdale Water District, Quartz Hill Water District, Littlerock Creek Irrigation District, California Water Service Company, Desert Lake Community Services District, North Edwards Water District, City of Palmdale, City of Lancaster, Palm Ranch Irrigation District, and Rosamond Community Services District, and two (2) landowner Parties, exclusive of public agencies and members of the Non-Pumper and Small Pumper Classes, selected by majority vote of the landowners identified on Exhibit 4 (or their successors in interest) based on their proportionate share of the total Production Rights identified in Exhibit 4. The United States may also appoint a non-voting Department of Defense (DoD) Liaison to the Watermaster committee to represent DoD interests. Participation by the DoD Liaison shall be governed by Joint Ethics Regulation 3-201. The opinions or actions of the DoD liaison in participating in or contributing to Watermaster proceedings cannot bind DoD or any of its components.

18.1.2 Voting Protocol for Watermaster Actions:

18.1.2.1 The Watermaster shall make decisions by unanimous vote for the purpose of selecting or dismissing the Watermaster Engineer.

18.1.2.2 The Watermaster shall determine by unanimous vote, after consultation with the Watermaster Engineer, the types of decisions that shall require unanimous vote and those that shall require only a simple majority vote.

18.1.2.3 All decisions of the Watermaster, other than those specifically designated as being subject to a simple majority vote, shall be by a unanimous vote.

18.1.2.4 All board members must be present to make any decision requiring a unanimous vote.

18.1.3 In carrying out this appointment, the Watermaster shall segregate and separately exercise in all respects the Watermaster powers delegated by the Court under this Judgment. All funds received, held, and disbursed by the Watermaster shall be by way of separate Watermaster accounts, subject to separate accounting and auditing. Meetings and hearings held by the Watermaster shall be noticed and conducted separately.

18.1.4 Pursuant to duly adopted Watermaster rules, Watermaster staff and administrative functions may be accomplished by AVEK, subject to strict time and cost accounting principles so that this Judgment does not subsidize, and is not subsidized by AVEK.

18.2 Standard of Performance. The Watermaster shall carry out its duties, powers and responsibilities in an impartial manner without favor or prejudice to any Subarea, Producer, Party, or Purpose of Use.

18.3 Removal of Watermaster. The Court retains and reserves full jurisdiction, power, and authority to remove any Watermaster for good cause and substitute a new Watermaster in its place, upon its own motion or upon motion of any Party in accordance with the notice and hearing procedures set forth in Paragraph 20.6. The Court shall find good cause for the removal of a Watermaster upon a showing that the Watermaster has: (1) failed to exercise its powers or perform its duties; (2) performed its powers in a biased manner; or (3) otherwise failed to act in the manner consistent with the provisions set forth in this Judgment or subsequent order of the Court.

18.4 Powers and Duties of the Watermaster. Subject to the continuing supervision and control of the Court, the Watermaster shall have and may exercise the following express powers and duties, together with any specific powers and duties set forth elsewhere in this Judgment or ordered by the Court:

18.4.1 Selection of the Watermaster Engineer. The Watermaster shall select the Watermaster Engineer with the advice of the Advisory Committee described in Paragraph 19.

18.4.2 Adoption of Rules and Regulations. The Court may adopt appropriate rules and regulations prepared by the Watermaster Engineer and proposed by the Watermaster for conduct pursuant to this Judgment. Before proposing rules and regulations, the Watermaster shall hold a public hearing. Thirty (30) days prior to the date of the hearing, the Watermaster shall send to all Parties notice of the hearing and a copy of the proposed rules and regulations or amendments thereto. All Watermaster rules and regulations, and any amendments to the Watermaster rules and regulations, shall be consistent with this Judgment and are subject to approval by the Court, for cause shown, after consideration of the objections of any Party.

18.4.3 Employment of Experts and Agents. The Watermaster may employ such administrative personnel, engineering, legal, accounting, or other specialty services, and consulting assistants as appropriate in carrying out the terms of this Judgment.

18.4.4 Notice List. The Watermaster shall maintain a current list of Parties to receive notice. The Parties have an affirmative obligation to provide the Watermaster with their current contact information. For Small Pumper Class Members, the Watermaster shall initially use the contact information contained in the list of Small Pumper Class members filed with the Court by class counsel.

18.4.5 Annual Administrative Budget. The Watermaster shall prepare a proposed administrative budget for each Year. The Watermaster shall hold a public hearing regarding the proposed administrative budget and adopt an administrative budget. The administrative budget shall set forth budgeted items and Administrative Assessments in sufficient

detail to show the allocation of the expense among the Producers. Following the adoption of the budget, the Watermaster may make expenditures within budgeted items in the exercise of powers herein granted, as a matter of course.

18.4.6 Investment of Funds. The Watermaster may hold and invest any funds in investments authorized from time to time for public agencies in the State of California. All funds shall be held in separate accounts and not comingled with the Watermaster's personal funds.

18.4.7 Borrowing. The Watermaster may borrow in anticipation of receipt of proceeds from any assessments authorized in Paragraph 9 in an amount not to exceed the annual amount of assessments.

18.4.8 Transfers. On an annual basis, the Watermaster shall prepare and maintain a report or record of any transfer of Production Rights among Parties. Upon reasonable request, the Watermaster shall make such report or record available for inspection by any Party. A report or records of transfer of Production Rights under this Paragraph shall be considered a ministerial act.

18.4.9 New Production Applications. The Watermaster shall consider and determine whether to approve applications for New Production after consideration of the recommendation of the Watermaster Engineer.

18.4.10 Unauthorized Actions. The Watermaster shall bring such action or motion as is necessary to enjoin any conduct prohibited by this Judgment.

18.4.11 Meetings and Records. Watermaster shall provide notice of and conduct all meetings and hearings in a manner consistent with the standards and timetables set forth in the Ralph M. Brown Act, Government Code sections 54950, et seq. Watermaster shall make its files and records available to any Person consistent with the standards and timetables set forth in the Public Records Act, Government Code sections 6200, et seq.

18.4.12 Assessment Procedure. Each Party hereto is ordered to pay the assessments authorized in Paragraph 9 of this Judgment, which shall be levied and collected in

accordance with the procedures and schedules determined by the Watermaster. Any assessment which becomes delinquent, as defined by rules and regulations promulgated by the Watermaster shall bear interest at the then current real property tax delinquency rate for the county in which the property of the delinquent Party is located. The United States shall not be subject to payment of interest absent congressional waiver of immunity for the imposition of such interest. This interest rate shall apply to any said delinquent assessment from the due date thereof until paid. The delinquent assessment, together with interest thereon, costs of suit, attorneys fees and reasonable costs of collection, may be collected pursuant to (1) motion by the Watermaster giving notice to the delinquent Party only; (2) Order to Show Cause proceeding, or (3) such other lawful proceeding as may be instituted by the Watermaster or the Court. The United States shall not be subject to costs and fees absent congressional waiver of immunity for such costs and fees. The delinquent assessment shall constitute a lien on the property of the Party as of the same time and in the same manner as does the tax lien securing county property taxes. The property of the United States shall not be subject to any lien. The Watermaster shall annually certify a list of all such unpaid delinquent assessments. The Watermaster shall include the names of those Parties and the amounts of the liens in its list to the County Assessor's Office in the same manner and at the same time as it does its Administrative Assessments. Watermaster shall account for receipt of all collections of assessments collected pursuant to this Judgment, and shall pay such amounts collected pursuant to this Judgment to the Watermaster. The Watermaster shall also have the ability to seek to enjoin Production of those Parties, other than the United States, who do not pay assessments pursuant to this Judgment.

18.5 **Watermaster Engineer.** The Watermaster Engineer shall have the following duties:

18.5.1 **Monitoring of Safe Yield.** The Watermaster Engineer shall monitor all the Safe Yield components and include them in the annual report for Court approval. The annual report shall include all relevant data for the Basin.

18.5.2 Reduction in Groundwater Production. The Watermaster Engineer shall ensure that reductions of Groundwater Production to the Native Safe Yield (Rampdown) take place pursuant to the terms of this Judgment and any orders by the Court.

18.5.3 Determination of Replacement Obligations. The Watermaster Engineer shall determine Replacement Obligations for each Producer, pursuant to the terms of this Judgment.

18.5.4 Balance Obligations. The Watermaster Engineer shall determine Balance Assessment obligations for each Producer pursuant to the terms of this Judgment. In addition, the Watermaster Engineer shall determine the amount of water derived from the Balance Assessment that shall be allocated to any Producer to enable that Producer to fully exercise its Production Right.

18.5.5 Measuring Devices, Etc. The Watermaster Engineer shall propose, and the Watermaster shall adopt and maintain, rules and regulations regarding determination of Production amounts and installation of individual water meters. The rules and regulations shall set forth approved devices or methods to measure or estimate Production. Producers who meter Production on the date of entry of this Judgment shall continue to meter Production. The Watermaster rules and regulations shall require Producers who do not meter Production on the effective date of entry of this Judgment, except the Small Pumper Class, to install water meters within two Years.

18.5.6 Hydrologic Data Collection. The Watermaster Engineer shall (1) operate, and maintain such wells, measuring devices, and/or meters necessary to monitor stream flow, precipitation, Groundwater levels, and Basin Subareas, and (2) to obtain such other data as may be necessary to carry out this Judgment.

18.5.7 Purchases of and Recharge with Replacement Water. To the extent Imported Water is available, the Watermaster Engineer shall use Replacement Water Assessment proceeds to purchase Replacement Water, and deliver such water to the area deemed most appropriate as soon as practicable. The Watermaster Engineer may pre-purchase

Replacement Water and apply subsequent assessments towards the costs of such pre-purchases. The Watermaster Engineer shall reasonably and equitably actively manage the Basin to protect and enhance the health of the Basin.

18.5.8 Water Quality. The Watermaster Engineer shall take all reasonable steps to assist and encourage appropriate regulatory agencies to enforce reasonable water quality regulations affecting the Basin, including regulation of solid and liquid waste disposal, and establishing Memorandums of Understanding with Kern and Los Angeles Counties regarding well drilling ordinances and reporting.

18.5.9 Native Safe Yield. Ten (10) Years following the end of the seven Year Rampdown period, in the seventeenth (17th) Year, or any time thereafter, the Watermaster Engineer may recommend to the Court an increase or reduction of the Native Safe Yield. The Watermaster Engineer shall initiate no recommendation to change Native Safe Yield prior to the end of the seventeenth (17th) Year. In the event the Watermaster Engineer recommends in its report to the Court that the Native Safe Yield be revised based on the best available science, the Court shall conduct a hearing regarding the recommendations and may order a change in Native Safe Yield. Watermaster shall give notice of the hearing pursuant to Paragraph 20.3.2. The most recent Native Safe Yield shall remain in effect until revised by Court order according to this paragraph. If the Court approves a reduction in the Native Safe Yield, it shall impose a Pro-Rata Reduction as set forth herein, such reduction to be implemented over a seven (7) Year period. If the Court approves an increase in the Native Safe Yield, it shall impose a Pro-Rata Increase as set forth herein, such increase to be implemented immediately. Only the Court can change the Native Safe Yield.

18.5.10 Change in Production Rights in Response to Change in Native Safe Yield. In the event the Court changes the Native Safe Yield pursuant to Paragraph 18.5.9, the increase or decrease will be allocated among the Producers in the agreed percentages listed in Exhibits 3 and 4, except that the Federal Reserved Water Right of the United States is not subject to any increase or decrease.

18.5.11 Review of Calculation of Imported Water Return Flow Percentages. Ten (10) Years following the end of the Rampdown, in the seventeenth (17th) Year, or any time thereafter, the Watermaster Engineer may recommend to the Court an increase or decrease of Imported Water Return Flow percentages. The Watermaster Engineer shall initiate no recommendation to change Imported Water Return Flow percentages prior to end of the seventeenth (17th) Year. In the event the Watermaster Engineer recommends in its report to the Court that Imported Water Return Flow percentages for the Basin may need to be revised based on the best available science, the Court shall conduct a hearing regarding the recommendations and may order a change in Imported Water Return Flow percentages. Watermaster shall give notice of the hearing pursuant to Paragraph 20.6. The Imported Water Return Flow percentages set forth in Paragraph 5.2 shall remain in effect unless revised by Court order according to this Paragraph. If the Court approves a reduction in the Imported Water Return Flow percentages, such reduction shall be implemented over a seven (7) Year period. Only the Court can change the Imported Water Return Flow percentages.

18.5.12 Production Reports. The Watermaster Engineer shall require each Producer, other than unmetered Small Pumper Class Members, to file an annual Production report with the Watermaster. Producers shall prepare the Production reports in a form prescribed by the rules and regulations. The Production reports shall state the total Production for the reporting Party, including Production per well, rounded off to the nearest tenth of an acre foot for each reporting period. The Production reports shall include such additional information and supporting documentation as the rules and regulations may reasonably require.

18.5.13 New Production Application Procedure. The Watermaster Engineer shall determine whether a Party or Person seeking to commence New Production has established the reasonableness of the New Production in the context of all other uses of Groundwater in the Basin at the time of the application, including whether all of the Native Safe Yield is then currently being used reasonably and beneficially. Considering common law water rights and priorities, the mandate of certainty in Article X, section 2, and all other relevant

factors, the Watermaster Engineer has authority to recommend that the application for New Production be denied, or approved on condition of payment of a Replacement Water Assessment. The Watermaster Engineer shall consider, investigate and recommend to the Watermaster whether an application to commence New Production of Groundwater may be approved as follows:

18.5.13.1 All Parties or Person(s) seeking approval from the Watermaster to commence New Production of Groundwater shall submit a written application to the Watermaster Engineer which shall include the following:

18.5.13.1.1 Payment of an application fee sufficient to recover all costs of application review, field investigation, reporting, and hearing, and other associated costs, incurred by the Watermaster and Watermaster Engineer in processing the application for New Production;

18.5.13.1.2 Written summary describing the proposed quantity, sources of supply, season of use, Purpose of Use, place of use, manner of delivery, and other pertinent information regarding the New Production;

18.5.13.1.3 Maps identifying the location of the proposed New Production, including Basin Subarea;

18.5.13.1.4 Copy of any water well permits, specifications and well-log reports, pump specifications and testing results, and water meter specifications associated with the New Production;

18.5.13.1.5 Written confirmation that the applicant has obtained all applicable Federal, State, County, and local land use entitlements and other permits necessary to commence the New Production;

18.5.13.1.6 Written confirmation that the applicant has complied with all applicable Federal, State, County, and local laws, rules and regulations, including but not limited to, the California Environmental Quality Act (Public Resources Code §§ 21000, et. seq.);

18.5.13.1.7 Preparation of a water conservation plan, approved and stamped by a California licensed and registered professional civil engineer, demonstrating that the New Production will be designed, constructed and implemented consistent with California best water management practices.

18.5.13.1.8 Preparation of an analysis of the economic impact of the New Production on the Basin and other Producers in the Subarea of the Basin;

18.5.13.1.9 Preparation of an analysis of the physical impact of the New Production on the Basin and other Producers in the Subarea of the Basin;

18.5.13.1.10 A written statement, signed by a California licensed and registered professional civil engineer, determining that the New Production will not cause Material Injury;

18.5.13.1.11 Written confirmation that the applicant agrees to pay the applicable Replacement Water Assessment for any New Production.

18.5.13.1.12 Other pertinent information which the Watermaster Engineer may require.

18.5.13.2 Finding of No Material Injury. The Watermaster Engineer shall not make recommendation for approval of an application to commence New Production of Groundwater unless the Watermaster Engineer finds, after considering all the facts and circumstances including any requirement that the applicant pay a Replacement Water Assessment required by this Judgment or determined by the Watermaster Engineer to be required under the circumstances, that such New Production will not cause Material Injury. If the New Production is limited to domestic use for one single-family household, the Watermaster Engineer has the authority to determine the New Production to be *de minimis* and waive payment of a Replacement Water Assessment; *provided*, the right to Produce such *de minimis* Groundwater is not transferable, and shall not alter the Production Rights decreed in this Judgment.

18.5.13.3 New Production. No Party or Person shall commence New Production of Groundwater from the Basin absent recommendation by the Watermaster Engineer and approval by the Watermaster.

18.5.13.4 Court Review. Court review of a Watermaster decision on a New Production application shall be pursuant to Paragraph 20.3.

18.5.14 Storage Agreements. The Watermaster shall adopt uniformly applicable rules for Storage Agreements. The Watermaster Engineer shall calculate additions, extractions and losses of water stored under Storage Agreements and maintain an Annual account of all such water. Accounting done by the Watermaster Engineer under this Paragraph shall be considered ministerial.

18.5.15 Diversion of Storm Flow. No Party may undertake or cause the construction of any project within the Watershed of the Basin that will reduce the amount of storm flows that would otherwise enter the Basin and contribute to the Native Safe Yield, without prior notification to the Watermaster Engineer. The Watermaster Engineer may seek an injunction or to otherwise impose restrictions or limitations on such project in order to prevent reduction to Native Safe Yield. The Party sought to be enjoined or otherwise restricted or limited is entitled to notice and an opportunity for the Party to respond prior to the imposition of any restriction or limitation. Any Person may take emergency action as may be necessary to protect the physical safety of its residents and personnel and its structures from flooding. Any such action shall be done in a manner that will minimize any reduction in the quantity of Storm Flows.

18.5.16 Data, Estimates and Procedures. The Watermaster Engineer shall rely on and use the best available science, records and data to support the implementation of this Judgment. Where actual records of data are not available, the Watermaster Engineer shall rely on and use sound scientific and engineering estimates. The Watermaster Engineer may use preliminary records of measurements, and, if revisions are subsequently made, may reflect such revisions in subsequent accounting.

18.5.17 Filing of Annual Report. The Watermaster Engineer shall prepare an Annual Report for filing with the Court not later than April 1 of each Year, beginning April 1 following the first full Year after entry of this Judgment. Prior to filing the Annual Report with the Court, Watermaster shall notify all Parties that a draft of the Annual Report is available for review by the Parties. Watermaster shall provide notice to all Parties of a public hearing to receive comments and recommendations for changes in the Annual Report. The public hearing shall be conducted pursuant to rules and regulations promulgated by the Watermaster. The notice of public hearing may include such summary of the draft Annual Report as Watermaster may deem appropriate. Watermaster shall distribute the Annual Report to any Parties requesting copies.

18.5.18 Annual Report to Court. The Annual Report shall include an Annual fiscal report of the preceding Year's operation; details regarding the operation of each of the Subareas; an audit of all Assessments and expenditures; and a review of Watermaster activities. The Annual Report shall include a compilation of at least the following:

18.5.18.1 Replacement Obligations;

18.5.18.2 Hydrologic Data Collection;

18.5.18.3 Purchase and Recharge of Imported Water;

18.5.18.4 Notice List;

18.5.18.5 New Production Applications

18.5.18.6 Rules and Regulations;

18.5.18.7 Measuring Devices, etc;

18.5.18.8 Storage Agreements;

18.5.18.9 Annual Administrative Budget;

18.5.18.10 Transfers;

18.5.18.11 Production Reports;

18.5.18.12 Prior Year Report;

18.5.18.13 Amount of Stored Water owned by each Party;

18.5.18.14 Amount of Stored Imported Water owned by each Party;

18.5.18.15 Amount of unused Imported Water Return Flows owned by each Party;

18.5.18.16 Amount of Carry Over Water owned by each Party;

18.5.18.17 All changes in use.

18.6 Recommendations of the Watermaster Engineer. Unless otherwise determined pursuant to Paragraph 18.1.2.2, all recommendations of the Watermaster Engineer must be approved by unanimous vote of all members of the Watermaster. If there is not unanimous vote among Watermaster members, Watermaster Engineer recommendations must be presented to the Court for action and implementation.

18.7 Interim Approvals by the Court. Until the Court approves rules and regulations proposed by the Watermaster, the Court, upon noticed motion, may take or approve any actions that the Watermaster or the Watermaster Engineer otherwise would be authorized to take or approve under this Judgment.

19. ADVISORY COMMITTEE

19.1 Authorization. The Producers are authorized and directed to cause a committee of Producer representatives to be organized and to act as an Advisory Committee.

19.2 Compensation. The Advisory Committee members shall serve without compensation.

19.3 Powers and Functions. The Advisory Committee shall act in an advisory capacity only and shall have the duty to study, review, and make recommendations on all discretionary determinations by Watermaster. Parties shall only provide input to the Watermaster through the Advisory Committee.

19.4 Advisory Committee Meetings. The Advisory Committee shall 1) meet on a regular basis; 2) review Watermaster's activities pursuant to this Judgment on at least a semi-annual basis; and 3) receive and make advisory recommendations to Watermaster. Advisory Committee Meetings shall be open to all members of the public. Edwards Air Force

Base and the State of California shall be ex officio members of the committee. The United States may also appoint a DoD Liaison to the Watermaster pursuant to Joint Ethics Regulation 3-201.

19.5 Subarea Advisory Management Committees. Subarea Advisory Management Committees will meet on a regular basis and at least semi-annually with the Watermaster Engineer to review Watermaster activities pursuant to this Judgment and to submit advisory recommendations.

19.5.1 Authorization. The Producers in each of the five Management Subareas are hereby authorized and directed to cause committees of Producer representatives to be organized and to act as Subarea Management Advisory Committees.

19.5.2 Composition and Election. Each Management Subarea Management Advisory Committee shall consist of five (5) Persons who shall be called Management Advisors. In the election of Management Advisors, every Party shall be entitled to one vote for every acre-foot of Production Right for that Party in that particular subarea. Parties may cumulate their votes and give one candidate a number of votes equal to the number of advisors to be elected, multiplied by the number of votes to which the Party is normally entitled, or distribute the Party's votes on the same principle among as many candidates as the Party thinks fit. In any election of advisors, the candidates receiving the highest number of affirmative votes of the Parties are elected. Elections shall be held upon entry of this Judgment and thereafter every third Year. In the event a vacancy arises, a temporary advisor shall be appointed by unanimous decision of the other four advisors to continue in office until the next scheduled election. Rules and regulations regarding organization, meetings and other activities shall be at the discretion of the individual Subarea Advisory Committees, except that all meetings of the committees shall be open to the public.

19.5.3 Compensation. The Subarea Management Advisory Committee shall serve without compensation.

19.5.4 Powers and Functions. The Subarea Management Advisory Committee for each subarea shall act in an advisory capacity only and shall have the duty to

study, review and make recommendations on all discretionary determinations made or to be made hereunder by Watermaster Engineer which may affect that subarea.

20. MISCELLANEOUS PROVISIONS.

20.1 Water Quality. Nothing in this Judgment shall be interpreted as relieving any Party of its responsibilities to comply with State or Federal laws for the protection of water quality or the provisions of any permits, standards, requirements, or orders promulgated thereunder.

20.2 Actions Not Subject to CEQA Regulation. Nothing in this Judgment or the Physical Solution, or in the implementation thereof, or the decisions of the Watermaster acting under the authority of this Judgment shall be deemed a "project" subject to the California Environmental Quality Act (CEQA). See e.g., *California American Water v. City of Seaside* (2010) 183 Cal.App.4th 471, and *Hillside Memorial Park & Mortuary v. Golden State Water Co*. (2011) 205 Cal.App.4th 534. Neither the Watermaster, the Watermaster Engineer, the Advisory Committee, any Subarea Management Committee, nor any other Board or committee formed pursuant to the Physical Solution and under the authority of this Judgment shall be deemed a "public agency" subject to CEQA. (See Public Resources Code section 21063.)

20.3 Court Review of Watermaster Actions. Any action, decision, rule, regulation, or procedure of Watermaster or the Watermaster Engineer pursuant to this Judgment shall be subject to review by the Court on its own motion or on timely motion by any Party as follows:

20.3.1 Effective Date of Watermaster Action. Any order, decision or action of Watermaster or Watermaster Engineer pursuant to this Judgment on noticed specific agenda items shall be deemed to have occurred on the date of the order, decision or action.

20.3.2 Notice of Motion. Any Party may move the Court for review of an action or decision pursuant to this Judgment by way of a noticed motion. The motion shall be served pursuant to Paragraph 20.7 of this Judgment. The moving Party shall ensure that the Watermaster is served with the motion under that Paragraph 20.7 or, if electronic service of the

Watermaster is not possible, by overnight mail with prepaid next-day delivery. Unless ordered by the Court, any such petition shall not operate to stay the effect of any action or decision which is challenged.

20.3.3 Time for Motion. A Party shall file a motion to review any action or decision within ninety (90) days after such action or decision, except that motions to review assessments hereunder shall be filed within thirty (30) days of Watermaster mailing notice of the assessment.

20.3.4 De Novo Nature of Proceeding. Upon filing of a motion to review a decision or action, the Watermaster shall notify the Parties of a date for a hearing at which time the Court shall take evidence and hear argument. The Court's review shall be *de novo* and the Watermaster's decision or action shall have no evidentiary weight in such proceeding.

20.3.5 Decision. The decision of the Court in such proceeding shall be an appealable supplemental order in this case. When the Court's decision is final, it shall be binding upon Watermaster and the Parties.

20.4 Multiple Production Rights. A Party simultaneously may be a member of the Small Pumper Class and hold an Overlying Production Right by virtue of owning land other than the parcel(s) meeting the Small Pumper Class definition. The Small Pumper Class definition shall be construed in accordance with Paragraph 3.5.44 and 3.5.45.

20.5 Payment of Assessments. Payment of assessments levied by Watermaster hereunder shall be made pursuant to the time schedule developed by the Watermaster, notwithstanding any motion for review of Watermaster actions, decisions, rules or procedures, including review of assessments implemented by the Watermaster.

20.6 Designation of Address for Notice and Service. Each Party shall designate a name and address to be used for purposes of all subsequent notices and service herein, either by its endorsement on this Judgment or by a separate designation to be filed within thirty (30) days after judgment has been entered. A Party may change its designation by filing a written notice of such change with Watermaster. A Party that desires to be relieved of receiving notices

of Watermaster activity may file a waiver of notice in a form to be provided by Watermaster. At all times, Watermaster shall maintain a current list of Parties to whom notices are to be sent and their addresses for purpose of service. Watermaster shall also maintain a full current list of said names and addresses of all Parties or their successors, as filed herein. Watermaster shall make copies of such lists available to any requesting Person. If no designation is made, a Party's designee shall be deemed to be, in order of priority: (1) the Party's attorney of record; (2) if the Party does not have an attorney of record, the Party itself at the address on the Watermaster list; (3) for Small Pumper Class Members, after this Judgment is final, the individual Small Pumper Class Members at the service address maintained by the Watermaster.

20.7 **Service of Documents**. Unless otherwise ordered by the Court, delivery to or service to any Party by the Court or any Party of any document required to be served upon or delivered to a Party pursuant to this Judgment shall be deemed made if made by e-filing on the Court's website at www.scefiling.org. All Parties agree to waive service by mail if they receive notifications via electronic filing at the above identified website.

20.8 **No Abandonment of Rights**. In the interest of the Basin and its water supply, and the principle of reasonable and beneficial use, no Party shall be encouraged to Produce and use more water in any Year than is reasonably required. Failure to Produce all of the Groundwater to which a Party is entitled shall not, in and of itself, be deemed or constitute an abandonment of such Party's right, in whole or in part, except as specified in Paragraph 15.

20.9 **Intervention After Judgment**. Any Person who is not a Party or successor to a Party and who proposes to Produce Groundwater from the Basin, to store water in the Basin, to acquire a Production Right or to otherwise take actions that may affect the Basin's Groundwater is required to seek to become a Party subject to this Judgment through a noticed motion to intervene in this Judgment prior to commencing Production. Prior to filing such a motion, a proposed intervenor shall consult with the Watermaster Engineer and seek the Watermaster's stipulation to the proposed intervention. A proposed intervenor's failure to consult

with the Watermaster Engineer may be grounds for denying the intervention motion. Thereafter, if approved by the Court, such intervenor shall be a Party bound by this Judgment.

20.10 Judgment Binding on Successors, etc. Subject to specific provisions hereinbefore contained, this Judgment applies to and is binding upon, and inures to the benefit of the Parties to this Action and all their respective heirs, successors-in-interest and assigns.

20.11 Costs. Except subject to any existing court orders, each Party shall bear its own costs and attorneys fees arising from the Action.

20.12 Headings; Paragraph References. Captions and headings appearing in this Judgment are inserted solely as reference aids for ease and convenience; they shall not be deemed to define or limit the scope or substance of the provisions they introduce, nor shall they be used in construing the intent or effect of such provisions.

20.13 No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation of the Parties.

20.14 Severability. Except as specifically provided herein, the provisions of this Judgment are not severable.

20.15 Cooperation; Further Acts. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Judgment.

20.16 Exhibits and Other Writings. Any and all exhibits, documents, instruments, certificates or other writings attached hereto or required or provided for by this Judgment, if any, shall be part of this Judgment and shall be considered set forth in full at each reference thereto in this Judgment.

Dated: _____

_____
JUDGE OF THE SUPERIOR COURT

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
3	Jacqueline Ackermann	3/23/2012	5/8/2013
4	ADVINCULA, CENON S	3/23/2012	5/8/2013
5	ADVINCULA, OLIVA M	3/23/2012	5/8/2013
6	ALDAIS, MARWAN M.	3/23/2012	5/8/2013
7	AGUSTINES, ANTONIO U	3/23/2012	5/8/2013
7	Allen Alevy	3/23/2012	5/8/2013
8	ARCHER, GEORGINE J.	3/23/2012	5/8/2013
8	Allen Alevy and Alevy Family Trust	3/23/2012	5/8/2013
9	ARCHER GEORGINE J as Trustee for the Georgine J. Archer Trust	3/23/2012	5/8/2013
10	BARKS, GUSS A. JR.	3/23/2012	5/8/2013
11	BRONSTON, LEROY DANIEL	3/23/2012	5/8/2013
12	BAYANI, ILDEFONSO S.	3/23/2012	5/8/2013
13	Castle Butte Dev. Corp	3/23/2012	5/8/2013
13	BAYANI, NILDA V.	3/23/2012	5/8/2013
16	FUNK, JOAN A	3/23/2012	5/8/2013
19	GENUS L P	3/23/2012	5/8/2013
24	Illy King	3/23/2012	5/8/2013
24	Melinda E Cameron	3/23/2012	5/8/2013
25	Illy King Family Trust	3/23/2012	5/8/2013
25	Catellus Development Corporation	3/23/2012	5/8/2013
26	KUTU INVESTMENT CO - Suspended	3/23/2012	5/8/2013
26	BONG S. CHANG	9/17/2015	10/16/2015
27	LAI, EVA	3/23/2012	5/8/2013
27	CHANG, JEANNA Y.	3/23/2012	5/8/2013
28	LAI, PAUL	3/23/2012	5/8/2013
28	MOON S. CHANG	9/17/2015	10/16/2015
29	CHETRIT, JACOB	3/23/2012	5/8/2013
31	Pei Chi Lin	3/23/2012	5/8/2013
31	Lee Shiow Chiou	3/23/2012	5/8/2013
32	CHUNG, M S	3/23/2012	5/8/2013
35	COLE, C.C. THELMA	3/23/2012	5/8/2013
36	COLE, J.	3/23/2012	5/8/2013
36	RUDNICK, OSCAR	9/16/2015	10/16/2015
37	RUDNICK, REBECCA	3/23/2012	5/8/2013
37	J. & C. C. Thelma Cole and T. J. Cole Trust (J. Cole as Trustee for the T. J. Cole Trust)	3/23/2012	5/8/2013
41	CUMMING, RUTH A	9/17/2015	10/16/2015
43	DAVIS, CATHARINE M	3/23/2012	5/8/2013
44	Milton S. Davis	3/23/2012	5/8/2013
46	Sarkis Djanibekyan	3/23/2012	5/8/2013
47	DONG, HONG	3/23/2012	5/8/2013
48	DONG, YING X.	3/23/2012	5/8/2013
51	FOROUGHI, MORTEZA	9/17/2015	10/16/2015
52	MORTEZA M. FOROUGHI AND FOROUGHI FAMILY TRUST	9/17/2015	10/16/2015
53	Lewis Friedrichsen	3/23/2012	5/8/2013
54	Lewis Friedrichsen as Trustee of the Friedrichsen Family Trust	3/23/2012	5/8/2013
55	Aurora P Gabuya	3/23/2012	5/8/2013
58	Betty Gluckstein	3/23/2012	5/8/2013
59	Joseph H Gluckstein	9/17/2015	10/16/2015
60	GLUCKSTEIN,MORRIS	3/23/2012	5/8/2013
61	GLUCKSTEIN, ROSE	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
66	GORRINDO, L.	3/23/2012	5/8/2013
71	HAUKE,ANDREAS	3/23/2012	5/8/2013
72	HAUKE, MARILYN	3/23/2012	5/8/2013
75	HIGELMIRE,DONNA	3/23/2012	5/8/2013
76	Michael N. Higelmire	3/23/2012	5/8/2013
78	Hooshpack Dev Inc	3/23/2012	5/8/2013
79	Chi S Huang	3/23/2012	5/8/2013
80	HUANG, SUCHU T.	3/23/2012	5/8/2013
81	Hypericum Interest LLC	3/23/2012	5/8/2013
82	IRANINEZHAD, DARYUSH	3/23/2012	5/8/2013
83	IRANINEZHAD, MINOO	3/23/2012	5/8/2013
84	KADIVAR,ESFANDIAR	3/23/2012	5/8/2013
85	KADIVAR FAMILY TRUST (Esfandiar Kadivar as Trustee of the Kadivar Family Trust)	3/23/2012	5/8/2013
88	Cheng Lin Kang	3/23/2012	5/8/2013
94	YOSHIMATSU, KAZUKO	3/23/2012	5/8/2013
95	Billy H. Kim	3/23/2012	5/8/2013
106	LAWRENCE, CHARLES TRUST	3/23/2012	5/8/2013
108	Light Andrew & Youngnam	3/23/2012	5/8/2013
109	Man C Lo	3/23/2012	5/8/2013
110	SHIUNG, RU	3/23/2012	5/8/2013
111	Lyman C. Miles	3/23/2012	5/8/2013
112	Lyman C. Miles as Trustee for the Miles Family Trust	3/23/2012	5/8/2013
114	Mission Bell Ranch Development	3/23/2012	5/8/2013
118	M R Nasir	3/23/2012	5/8/2013
119	Souad R Nasir	3/23/2012	5/8/2013
121	Simin C. Neman	3/23/2012	5/8/2013
123	Frank T. Nguyen	3/23/2012	5/8/2013
124	Juanita R Nichols	3/23/2012	5/8/2013
125	Oliver Nichols	3/23/2012	5/8/2013
126	Oliver Nichols as Trustee of the Nichols Family Trust	3/23/2012	5/8/2013
128	POULSEN,NORMAN L	3/23/2012	5/8/2013
130	Victoria Rahimi	3/23/2012	5/8/2013
132	Veronika Reinelt	3/23/2012	5/8/2013
133	Reinelt Rosenloecher Corp PSP	3/23/2012	5/8/2013
140	Rosemount Equities LLC Series	3/23/2012	5/8/2013
141	Royal Investors Group	3/23/2012	5/8/2013
142	ROYAL WESTERN PROPERTIES LLC - ACTIVE	3/23/2012	5/8/2013
145	Daniel Saparzadeh	3/23/2012	5/8/2013
149	SCHWARTZ, MARTIN	3/23/2012	5/8/2013
151	SEVEN STAR UNITED LLC	3/23/2012	5/8/2013
155	Donna L Simpson	3/23/2012	5/8/2013
156	Gareth L Simpson	3/23/2012	5/8/2013
157	Simpson Family Trust (Gareth L. Simpson as Trustee of the Simpson Family Trust)	3/23/2012	5/8/2013
164	GEORGE L STIMSON JR TRUST (George L. Stimson, Jr. as Trustee of the George L. Stimson, Jr. Trust)	3/23/2012	5/8/2013
167	TIU TIONG D.	3/23/2012	5/8/2013
172	Wilma D. Trueblood	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
173	Wilma D. Trueblood as Trustee of the Trueblood Family Trust	3/23/2012	5/8/2013
177	WALES, KEITH E.	3/23/2012	5/8/2013
180	Alex Wodchis	3/23/2012	5/8/2013
181	WONG, ELIZABETH	3/23/2012	5/8/2013
182	WONG, MARY	3/23/2012	5/8/2013
183	WU, MIKE M.	3/23/2012	5/8/2013
184	WU FAMILY (MIKE M. WU AS TRUSTEE OF THE WU FAMILY TRUST)	3/23/2012	5/8/2013
202	GREEN GROVE MUTUAL WATER COMPANY, INC.	3/23/2012	5/8/2013
206	LLANO FARMS MUTUAL WATER COMPANY	3/23/2012	5/8/2013
208	PIUTE MUTUAL WATER COMPANY	3/23/2012	5/8/2013
210	Wilsona Gardens Mutual Water Company	3/23/2012	5/8/2013
211	Edgemont Acres Mutual Water Company	3/23/2012	5/8/2013
213	ROSAMOND MUTUAL WATER COMPANY	3/23/2012	5/8/2013
Roe 234	Aceh Capital LLC	3/23/2012	5/8/2013
Roe 235	Ehsan Afaghi	3/23/2012	5/8/2013
Roe 237	Bruce Allen	3/23/2012	5/8/2013
Roe 238	Ana Verde Canyon Limited	3/23/2012	5/8/2013
Roe 240	Clinton Edwards Andrews	3/23/2012	5/8/2013
Roe 244	AV Foothills LLC	3/23/2012	5/8/2013
Roe 246	C and P Lancaster Properties, L.L.C.	3/23/2012	5/8/2013
Roe 248	California Springs Land & Development, Inc.	3/23/2012	5/8/2013
Roe 250	Capital Pacific Homes	3/23/2012	5/8/2013
Roe 253	Moon S. Chang and Bong S. Chang, Trustees	9/17/2015	10/16/2015
Roe 254	Theodore His-En and Wen-Hui C. Chen, as Co-Trustees of the Chen Family Trust (Established October 27, 1989)	3/23/2012	5/8/2013
Roe 255	Andrew J. Chitiea	3/23/2012	5/8/2013
Roe 256	Joan K Chitiea	3/23/2012	5/8/2013
Roe 257	Myron Z. Chlavin, Trustee	3/23/2012	5/8/2013
Roe 259	Richard L. Clark and Elaine M. Clark, Trs.	3/23/2012	5/8/2013
Roe 260	Menandro M. Marcelo and Ofelia or their Successors, as Trustees of the Menandro and Ofelia Marcelo Family Trust Dated June 2, 2006	3/23/2012	5/8/2013
Roe 261	CPH Tehachapi 280 LLC	3/23/2012	5/8/2013
Roe 264	Cyrstalaire Country Club	3/23/2012	5/8/2013
Roe 266	Kristeen Cua	3/23/2012	5/8/2013
Roe 267	Lita Davies	3/23/2012	5/8/2013
Roe 268	Richard Daniel De La Matyr	3/23/2012	5/8/2013
Roe 269	Long Deng	3/23/2012	5/8/2013
Roe 270	Dr Horton Los Angeles Holding, Inc.	3/23/2012	5/8/2013
Roe 272	Discountland Inc.	3/23/2012	5/8/2013
Roe 273	Dowhen Family	3/23/2012	5/8/2013
Roe 274	Mohammed Naji Elhayek	3/23/2012	5/8/2013
Roe 276	Farhad Alnd	3/23/2012	5/8/2013
Roe 277	Vera V. Farwell	3/23/2012	5/8/2013
Roe 279	Hersell Alnd	3/23/2012	5/8/2013
Roe 281	James H. Gisbrecht and Mary L. Gisbrecht, Trustees	3/23/2012	5/8/2013
Roe 282	Harry C. Godshall, Trustee	3/23/2012	5/8/2013
Roe 284	Sam Haskins	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 285	Yoram Hassid and Yael Hassid, Trustees	3/23/2012	5/8/2013
Roe 286	David J. Hester, Trustee	3/23/2012	5/8/2013
Roe 287	Jack D. Hilton	3/23/2012	5/8/2013
Roe 288	Rita Hilton	3/23/2012	5/8/2013
Roe 289	Clement L. Hirsch, Jr., Trustee	3/23/2012	5/8/2013
Roe 290	Carol A. Hooper	3/23/2012	5/8/2013
Roe 291	Thomas J. Hooper	3/23/2012	5/8/2013
Roe 292	David W. Hopkins	3/23/2012	5/8/2013
Roe 293	Gerald P Hopkins	3/23/2012	5/8/2013
Roe 294	Sumei P Hsi Trust	3/23/2012	5/8/2013
Roe 295	Ja Bin Hsu, Co-Trustee	3/23/2012	5/8/2013
Roe 296	Kangle Huang	3/23/2012	5/8/2013
Roe 297	Yiling Lin	3/23/2012	5/8/2013
Roe 299	James A. Hunter	3/23/2012	5/8/2013
Roe 300	Cyrus Serry	3/23/2012	5/8/2013
Roe 301	J and J General Partnership	3/23/2012	5/8/2013
Roe 302	J P Eliopulos Enterprises Inc.	3/23/2012	5/8/2013
Roe 303	Jensen Trust	3/23/2012	5/8/2013
Roe 304	Thomas Jones, Trustee	3/23/2012	5/8/2013
Roe 305	Joshua Ranch Development Inc	3/23/2012	5/8/2013
Roe 309	Kathryn T. Karlakis	3/23/2012	5/8/2013
Roe 310	James Kim	3/23/2012	5/8/2013
Roe 311	Glenn K. Kim Family LLC	3/23/2012	5/8/2013
Roe 312	Rose M Kolstad	3/23/2012	5/8/2013
Roe 313	Korda	3/23/2012	5/8/2013
Roe 314	Sarah Korda	3/23/2012	5/8/2013
Roe 315	Lancaster and 120 111 LLC	3/23/2012	5/8/2013
Roe 317	George R. Lazenby	3/23/2012	5/8/2013
Roe 318	Samuel Lee	3/23/2012	5/8/2013
Roe 319	Youngsin Lee	3/23/2012	5/8/2013
Roe 320	Leona Valley Hunting Club	3/23/2012	5/8/2013
Roe 321	Sue Levine	3/23/2012	5/8/2013
Roe 322	Phillip W. Lewis, Co-Trustee	3/23/2012	5/8/2013
Roe 323	David H. Li	3/23/2012	5/8/2013
Roe 325	Michael Lin	3/23/2012	5/8/2013
Roe 326	Linda L. Yang	3/23/2012	5/8/2013
Roe 330	Lucky 360 Investments LLC	3/23/2012	5/8/2013
Roe 331	Janet L Lyman	3/23/2012	5/8/2013
Roe 332	S. K. Madan	3/23/2012	5/8/2013
Roe 333	Laurie F. Magbanua	3/23/2012	5/8/2013
Roe 339	Lim S Mov	3/23/2012	5/8/2013
Roe 340	MRN Family Limited Partnership	3/23/2012	5/8/2013
Roe 341	Gay E Naiditch	3/23/2012	5/8/2013
Roe 343	Chester Nigra, Co-Trustee	3/23/2012	5/8/2013
Roe 344	Richard J. Nigra, Sr., Custodian	3/23/2012	5/8/2013
Roe 345	Neil Nissing	3/23/2012	5/8/2013
Roe 346	Masaaki Okamoto	3/23/2012	5/8/2013
Roe 347	Keiko Okamoto	3/23/2012	5/8/2013
Roe 348	Noriyuki Okamoto	3/23/2012	5/8/2013
Roe 349	Shoji Okamoto	3/23/2012	5/8/2013
Roe 350	Pacific American Inv Ltd Inc	3/23/2012	5/8/2013
Roe 352	Palmdale 1000 Associates LLC	3/23/2012	5/8/2013
Roe 354	Marvin R Perriseau	3/23/2012	5/8/2013
Roe 355	Karen L. Perriseau	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 356	Frank W. Pritchard	3/23/2012	5/8/2013
Roe 357	Margaret F Pritchard	3/23/2012	5/8/2013
Roe 358	Petersen Properties	3/23/2012	5/8/2013
Roe 359	Thang D Pham	3/23/2012	5/8/2013
Roe 361	John W. Phelps	3/23/2012	5/8/2013
Roe 362	James S. Phelps	3/23/2012	5/8/2013
Roe 365	Efren Reyes	3/23/2012	5/8/2013
Roe 366	RMG Property Holding Two LLC	3/23/2012	5/8/2013
Roe 367	Steffany J Rohn	3/23/2012	5/8/2013
Roe 369	Melvin K. Rust, Trustee	3/23/2012	5/8/2013
Roe 370	San Ho Huang	3/23/2012	5/8/2013
Roe 371	Chi Shiou Huang - Published as "Chi Shious Huang"	3/23/2012	5/8/2013
Roe 373	SCS Family Limited Partnership	3/23/2012	5/8/2013
Roe 374	Thomas P. Sherrill	3/23/2012	5/8/2013
Roe 375	Rachel M. Sherrill	3/23/2012	5/8/2013
Roe 376	Patricia C. Simi, Trustee	3/23/2012	5/8/2013
Roe 379	Columbia M. Stenberg, Trustee	3/23/2012	5/8/2013
Roe 382	Christopher S. Sun, Trustee	3/23/2012	5/8/2013
Roe 383	John S. Sun, Trustee	3/23/2012	5/8/2013
Roe 385	Alyce A Togonotti	3/23/2012	5/8/2013
Roe 389	USA Golden Land Investment LLC	3/23/2012	5/8/2013
Roe 392	Roy C. Wang	3/23/2012	5/8/2013
Roe 393	Lucy B. Wang	3/23/2012	5/8/2013
Roe 394	Warm Springs Investments Ltd.	3/23/2012	5/8/2013
Roe 398	West Coast Land Corporation	3/23/2012	5/8/2013
Roe 399	Laurie S. Whicher	3/23/2012	5/8/2013
Roe 400	Joyce P. Whiteside, Trustee	3/23/2012	5/8/2013
Roe 401	Harry Z. Wilson	3/23/2012	5/8/2013
Roe 403	ABC Diamonds Inc.	3/23/2012	5/8/2013
Roe 404	Alesso Lawrence V & Mardean Trust	3/23/2012	5/8/2013
Roe 405	Charles A. Amento	3/23/2012	5/8/2013
Roe 406	Sheila D. Amento	3/23/2012	5/8/2013
Roe 407	Sigitas F. Babusis	3/23/2012	5/8/2013
Roe 408	Banducci Enterprises	3/23/2012	5/8/2013
Roe 409	Banducci Land, L.L.C.	3/23/2012	5/8/2013
Roe 410	Janet Starr Berkey	3/23/2012	5/8/2013
Roe 411	Leslie C. Blenkhorn	3/23/2012	5/8/2013
Roe 412	Cherilyn M. Blenkhorn	3/23/2012	5/8/2013
Roe 414	Mark F. Bramlett	3/23/2012	5/8/2013
Roe 422	Sallie Lynne Chatterton	3/23/2012	5/8/2013
Roe 423	Michael C. Cheiky	3/23/2012	5/8/2013
Roe 424	Charity S. Cheiky	3/23/2012	5/8/2013
Roe 425	Chitiea Family Trust	9/21/2015	10/13/2015
Roe 426	Joel Chitiea	9/17/2015	10/16/2015
Roe 427	Vivian A. Chitiea	3/23/2012	5/8/2013
Roe 428	Yong See Cho	3/23/2012	5/8/2013
Roe 429	CJH Real Properties LLC	3/23/2012	5/8/2013
Roe 431	William Cordova	3/23/2012	5/8/2013
Roe 432	Virginia C. Cordova	3/23/2012	5/8/2013
Roe 433	Eric M Coyle	3/23/2012	5/8/2013
Roe 434	CPH Rosamond LP	3/23/2012	5/8/2013
Roe 435	Susan Elise Simonelli Crockett	3/23/2012	5/8/2013
Roe 438	Jeannette Damron	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 439	De Pietro Limited	3/23/2012	5/8/2013
Roe 441	Dora Land	3/23/2012	5/8/2013
Roe 442	Duncan M.B. Separate Prop Trust	3/23/2012	5/8/2013
Roe 443	Carol A. Durst, Trustee	3/23/2012	5/8/2013
Roe 444	Eagle Meadows of No Edwards 435 LLC	3/23/2012	5/8/2013
Roe 445	East Kern Prop LLC	3/23/2012	5/8/2013
Roe 446	East West Land Invs. Inc.	3/23/2012	5/8/2013
Roe 447	George M. Eastley	9/17/2015	10/16/2015
Roe 449	Sammy L. Edwards	3/23/2012	5/8/2013
Roe 450	Linda D. Edwards	3/23/2012	5/8/2013
Roe 454	Nancy H Evans	3/23/2012	5/8/2013
Roe 459	Farm Estates of the World	3/23/2012	5/8/2013
Roe 460	Fernandez Family Liv Trust	3/23/2012	5/8/2013
Roe 462	Fischer Grandchildrens Trust	3/23/2012	5/8/2013
Roe 463	Fogler, Ronald & Irene P. Trust	3/23/2012	5/8/2013
Roe 468	Mansoor Ghaneeian and Fariba Ghaneeian Trust	3/23/2012	5/8/2013
Roe 469	Gill Family Trust 1999	3/23/2012	5/8/2013
Roe 470	Gleason Trust	3/23/2012	5/8/2013
Roe 471	Gold Sky Prop. LLC	3/23/2012	5/8/2013
Roe 473	Guerrant Family Trust	3/23/2012	5/8/2013
Roe 474	Jose Guzman	3/23/2012	5/8/2013
Roe 475	Norma Guzman	3/23/2012	5/8/2013
Roe 478	Mary Lou Byerly Harrell	3/23/2012	5/8/2013
Roe 481	Sam Haskins Trust	3/23/2012	5/8/2013
Roe 482	Bob D. Helton Living Trust	3/23/2012	5/8/2013
Roe 483	Herrmann Family Trust	3/23/2012	5/8/2013
Roe 484	HET 2440 LLC	3/23/2012	5/8/2013
Roe 485	Susan B. Hills Family Trust	3/23/2012	5/8/2013
Roe 486	Ho Giang	3/23/2012	5/8/2013
Roe 487	Mylinh Phan	3/23/2012	5/8/2013
Roe 488	Jennifer Chang Ho Family Trust	3/23/2012	5/8/2013
Roe 489	Fela Holzman	9/17/2015	10/16/2015
Roe 490	Jerome I. Holzman	9/17/2015	10/16/2015
Roe 491	H.J. Holzman	9/17/2015	10/16/2015
Roe 492	Horizon Sumitt LLC	3/23/2012	5/8/2013
Roe 493	James T Hsu	3/23/2012	5/8/2013
Roe 494	H Huffnagle	3/23/2012	5/8/2013
Roe 495	Maynard R Huffnagle	3/23/2012	5/8/2013
Roe 498	Iglesia De Dio Pentecostla Mi	3/23/2012	5/8/2013
Roe 499	Invescorp Ltd	3/23/2012	5/8/2013
Roe 503	Javid Investments, L.L.C.	3/23/2012	5/8/2013
Roe 504	Emma Lou Johnson	3/23/2012	5/8/2013
Roe 505	Annette F. Kam	3/23/2012	5/8/2013
Roe 509	Richard M. & Sandra A Lang Family Trust	3/23/2012	5/8/2013
Roe 512	Daniel Bronston Leroy	3/23/2012	5/8/2013
Roe 513	Mary Ann Lewis	3/23/2012	5/8/2013
Roe 514	Lien Family Survivors Trust	3/23/2012	5/8/2013
Roe 515	Christine Lin	3/23/2012	5/8/2013
Roe 516	Los Angeles Land Investment	3/23/2012	5/8/2013
Roe 517	Loyola Marymount University	3/23/2012	5/8/2013
Roe 518	Clark C Lu	3/23/2012	5/8/2013
Roe 519	Danny C Lu	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 520	Douglas R. McAvoy and Amy M. McAvoy Trust	3/23/2012	5/8/2013
Roe 521	Roberta Merry Family Trust	3/23/2012	5/8/2013
Roe 522	Hans Peter Meyer	3/23/2012	5/8/2013
Roe 523	Ipbi Kim Meyer	3/23/2012	5/8/2013
Roe 525	S Huth-Tanner	3/23/2012	5/8/2013
Roe 526	Jamie Miller	3/23/2012	5/8/2013
Roe 527	Mojave & Tropico LLC	3/23/2012	5/8/2013
Roe 530	Elaine L. Morales	3/23/2012	5/8/2013
Roe 531	Mary B Mower	3/23/2012	5/8/2013
Roe 533	Louise Nichols	9/17/2015	10/16/2015
Roe 535	Joan D. Perkolup	9/17/2015	10/16/2015
Roe 536	Florence A. Perkolup	9/17/2015	10/16/2015
Roe 537	Fred Piwenitzky	3/23/2012	5/8/2013
Roe 538	Sachiko Piwenitzky	3/23/2012	5/8/2013
Roe 539	Pledge Investment LLC	3/23/2012	5/8/2013
Roe 540	Lulu Edna Pollock	3/23/2012	5/8/2013
Roe 541	Popinjay Corp. N V	3/23/2012	5/8/2013
Roe 542	Donald L. Purviance	3/23/2012	5/8/2013
Roe 544	Ronald A Ralphs	3/23/2012	5/8/2013
Roe 545	Ramos Trust	3/23/2012	5/8/2013
Roe 547	Edgar Reinoso	3/23/2012	5/8/2013
Roe 551	Lori March Scourby	3/23/2012	5/8/2013
Roe 552	Sellsite & United LLC	3/23/2012	5/8/2013
Roe 554	SF Pacific Properties Inc	3/23/2012	5/8/2013
Roe 557	Theodore H Sims, Jr.	3/23/2012	5/8/2013
Roe 559	Mi R Song	3/23/2012	5/8/2013
Roe 560	John Stern and Eleanor Stern Trust	3/23/2012	5/8/2013
Roe 561	Helen H. Stookey	3/23/2012	5/8/2013
Roe 563	John Su	3/23/2012	5/8/2013
Roe 564	Chen Su	3/23/2012	5/8/2013
Roe 565	Supermed Health Inc.	3/23/2012	5/8/2013
Roe 566	Sylvan Vista Development Co.	3/23/2012	5/8/2013
Roe 567	Tamkin Family Trust	3/23/2012	5/8/2013
Roe 569	Tazman, A Limited Liability Company	3/23/2012	5/8/2013
Roe 571	United Customhouse Brokers Inc.	3/23/2012	5/8/2013
Roe 574	Francom G. Watson, Jr.	3/23/2012	5/8/2013
Roe 575	A. Watson	3/23/2012	5/8/2013
Roe 576	Wells Fargo Bank NA	3/23/2012	5/8/2013
Roe 577	Richard A. White and Valerie K. White Trust	3/23/2012	5/8/2013
Roe 578	Wood Family Trust	3/23/2012	5/8/2013
Roe 580	Yeh Vivian Hwa	3/23/2012	5/8/2013
Roe 581	Lincoln Chu Kuen Yung	3/23/2012	5/8/2013
Roe 583	American Landmark Group LLC	3/23/2012	5/8/2013
Roe 585	190th Avenue West, LLC	3/23/2012	5/8/2013
Roe 589	John S. Alesso Jr.	9/17/2015	10/16/2015
Roe 596	Karla Bushnell	3/23/2012	5/8/2013
Roe 597	David Bushnell	3/23/2012	5/8/2013
Roe 601	Dorothy Etta Delia	3/23/2012	5/8/2013
Roe 602	John P Rusk	3/23/2012	5/8/2013
Roe 603	EPIC	3/23/2012	5/8/2013
Roe 604	Smith Development Co.	3/23/2012	5/8/2013
Roe 606	Hamid Ameri	3/23/2012	5/8/2013
Roe 607	Lutz Issleib	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 609	Erlinda Koo	3/23/2012	5/8/2013
Roe 610	Twyla Lake	3/23/2012	5/8/2013
Roe 612	Frank A Lane	3/23/2012	5/8/2013
Roe 613	High Desert Investments LLC.	3/23/2012	5/8/2013
Roe 614	Sol LeShin	3/23/2012	5/8/2013
Roe 615	Carl Proctor Jr.	3/23/2012	5/8/2013
Roe 616	Qwest Engineering Inc.	3/23/2012	5/8/2013
Roe 617	Retlaw Enterprises LLC	3/23/2012	5/8/2013
Roe 619	Robert A. Stoner Properties	3/23/2012	5/8/2013
Roe 620	Ronald H. Carter/Audrey M. Carter Family Trust	3/23/2012	5/8/2013
Roe 621	Clarence E Shetler	3/23/2012	5/8/2013
Roe 625	1st and 41st West LLC	3/23/2012	5/8/2013
Roe 626	20th Street Properties	3/23/2012	5/8/2013
Roe 629	Mehran Abolmoluki	3/23/2012	5/8/2013
Roe 630	Antonio Acosta	3/23/2012	5/8/2013
Roe 631	Miriam Adams	3/23/2012	5/8/2013
Roe 632	Arnold Adicoff	3/23/2012	5/8/2013
Roe 633	James Agalsoff	3/23/2012	5/8/2013
Roe 635	Carlito Aguilar	3/23/2012	5/8/2013
Roe 636	Carmen Aguilar	3/23/2012	5/8/2013
Roe 638	Valentin Aguilar	3/23/2012	5/8/2013
Roe 639	Yolanda Aguilar	3/23/2012	5/8/2013
Roe 641	Martha Akin	3/23/2012	5/8/2013
Roe 642	Jack Albright	3/23/2012	5/8/2013
Roe 644	Casey Alesso	3/23/2012	5/8/2013
Roe 645	Donald Alexander	3/23/2012	5/8/2013
Roe 647	Betty Allen	3/23/2012	5/8/2013
Roe 648	Brunette Allen	3/23/2012	5/8/2013
Roe 649	George Allen	3/23/2012	5/8/2013
Roe 650	Guadalupe Allen	3/23/2012	5/8/2013
Roe 651	Ronald Allen	3/23/2012	5/8/2013
Roe 652	Paul Allison	3/23/2012	5/8/2013
Roe 653	Yvonne Allison	3/23/2012	5/8/2013
Roe 654	Deborah Alluis	3/23/2012	5/8/2013
Roe 655	Jack Alluis	3/23/2012	5/8/2013
Roe 656	Mary Almarez	3/23/2012	5/8/2013
Roe 657	Jorge Alonso	3/23/2012	5/8/2013
Roe 658	Laura Alonso	3/23/2012	5/8/2013
Roe 659	ALP Equipment Sales Inc	3/23/2012	5/8/2013
Roe 660	Felipe Alvarez	3/23/2012	5/8/2013
Roe 661	Roberto Alvarez	3/23/2012	5/8/2013
Roe 663	Mary Alvidrez	3/23/2012	5/8/2013
Roe 664	Richard Alvidrez	3/23/2012	5/8/2013
Roe 666	An Van Phan Tr	3/23/2012	5/8/2013
Roe 667	Beatrice Anderson	3/23/2012	5/8/2013
Roe 670	Renee Anderson	3/23/2012	5/8/2013
Roe 671	Franklin Andrews	3/23/2012	5/8/2013
Roe 672	Treba Andrews	3/23/2012	5/8/2013
Roe 674	Sharon Annis	3/23/2012	5/8/2013
Roe 676	Antelope Valley Allied Arts Assn	3/23/2012	5/8/2013
Roe 677	Antelope Valley Florist Inc	3/23/2012	5/8/2013
Roe 684	Keiko Aoki	3/23/2012	5/8/2013
Roe 685	Jovencio Apostol	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 686	Frances Appleby	3/23/2012	5/8/2013
Roe 687	Thomas Appleby	3/23/2012	5/8/2013
Roe 689	Benedicto Arevalo	3/23/2012	5/8/2013
Roe 690	Nora Arevalo	3/23/2012	5/8/2013
Roe 693	Florence Arnold	3/23/2012	5/8/2013
Roe 694	Lucita Arquileta	3/23/2012	5/8/2013
Roe 695	Rufino Arquileta	3/23/2012	5/8/2013
Roe 697	Arroyo Family Trust	3/23/2012	5/8/2013
Roe 698	Patricia Artigas	3/23/2012	5/8/2013
Roe 699	Noboru Asato	3/23/2012	5/8/2013
Roe 700	Jesus Ascencio	3/23/2012	5/8/2013
Roe 701	Aliza Asher	3/23/2012	5/8/2013
Roe 702	Shaul Asher	3/23/2012	5/8/2013
Roe 705	Gerard Auyong	3/23/2012	5/8/2013
Roe 706	Jane Aveni	3/23/2012	5/8/2013
Roe 707	Lloyd Avery	3/23/2012	5/8/2013
Roe 708	Alan Avrick	3/23/2012	5/8/2013
Roe 711	Jack Baerlein	3/23/2012	5/8/2013
Roe 716	Maria Balice	3/23/2012	5/8/2013
Roe 718	Emiliano Ballesteros	3/23/2012	5/8/2013
Roe 719	Rafael Banales	3/23/2012	5/8/2013
Roe 720	Bernardo Banuelos	3/23/2012	5/8/2013
Roe 721	Rosario Banuelos	3/23/2012	5/8/2013
Roe 723	Ron Banuk	3/23/2012	5/8/2013
Roe 725	Irene Barbeau	3/23/2012	5/8/2013
Roe 726	Ann Barnes	3/23/2012	5/8/2013
Roe 727	Wayne Barnes	3/23/2012	5/8/2013
Roe 728	Terri Baron	3/23/2012	5/8/2013
Roe 729	Joseph Bartfay	3/23/2012	5/8/2013
Roe 730	Selma Bartfay	3/23/2012	5/8/2013
Roe 731	Basrock Woodcreek Gardens	3/23/2012	5/8/2013
Roe 732	Francisco Batino	9/21/2015	10/13/2015
Roe 733	Nancy Bauer	3/23/2012	5/8/2013
Roe 734	A Beasley	3/23/2012	5/8/2013
Roe 735	Teresa Becarra	3/23/2012	5/8/2013
Roe 737	Ikuko Becker	3/23/2012	5/8/2013
Roe 738	James Becker	3/23/2012	5/8/2013
Roe 739	Betty Bederio	3/23/2012	5/8/2013
Roe 740	Beatriz Belisario	3/23/2012	5/8/2013
Roe 741	Luis Belisario	3/23/2012	5/8/2013
Roe 742	Bell Tr	3/23/2012	5/8/2013
Roe 743	Beverly Bellanca	3/23/2012	5/8/2013
Roe 744	Cecilia Beltran	3/23/2012	5/8/2013
Roe 745	Victoria Benner	3/23/2012	5/8/2013
Roe 746	Bensky Living Trust	3/23/2012	5/8/2013
Roe 748	Nancy Benz	3/23/2012	5/8/2013
Roe 750	Gaylyn Berglund	3/23/2012	5/8/2013
Roe 751	Kenneth Berglund	3/23/2012	5/8/2013
Roe 752	Amante Bermundo	3/23/2012	5/8/2013
Roe 754	Ary Biers	3/23/2012	5/8/2013
Roe 755	Robert Biers	3/23/2012	5/8/2013
Roe 756	Sylvia Bigornia	3/23/2012	5/8/2013
Roe 758	Alfons Bimbiris	3/23/2012	5/8/2013
Roe 759	Vera Bimbiris	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 760	Melvin Bittner	3/23/2012	5/8/2013
Roe 763	Catherine Black	3/23/2012	5/8/2013
Roe 764	Anita Blanchard	3/23/2012	5/8/2013
Roe 767	Betty Bliley	3/23/2012	5/8/2013
Roe 768	Eugene Bliley	3/23/2012	5/8/2013
Roe 770	Jose Bocanegra	3/23/2012	5/8/2013
Roe 771	James Bodkin	3/23/2012	5/8/2013
Roe 772	Frank Bodolai	3/23/2012	5/8/2013
Roe 773	Magdalena Bodolai	3/23/2012	5/8/2013
Roe 775	Minh Bosque	3/23/2012	5/8/2013
Roe 776	Gayle Bovee	3/23/2012	5/8/2013
Roe 777	Vicki Bovee	3/23/2012	5/8/2013
Roe 778	Donna Boyer	3/23/2012	5/8/2013
Roe 781	BPP Valley Central	3/23/2012	5/8/2013
Roe 784	Bradley Family Tr	3/23/2012	5/8/2013
Roe 785	Dennis Braly	3/23/2012	5/8/2013
Roe 787	Brasel Family Tr	3/23/2012	5/8/2013
Roe 788	Flora Braun	3/23/2012	5/8/2013
Roe 789	Joe Brewer	3/23/2012	5/8/2013
Roe 794	Patricia Brooks	3/23/2012	5/8/2013
Roe 795	Mary Brosky	3/23/2012	5/8/2013
Roe 796	Vera Brown	3/23/2012	5/8/2013
Roe 797	Evelyn Bruno	3/23/2012	5/8/2013
Roe 798	Thomas Bryk	3/23/2012	5/8/2013
Roe 799	Eugene Buckley	3/23/2012	5/8/2013
Roe 800	Jeanne Buckley	3/23/2012	5/8/2013
Roe 801	Philip Bucknor	3/23/2012	5/8/2013
Roe 802	Donald Buhrmann	3/23/2012	5/8/2013
Roe 803	June Buhrmann	3/23/2012	5/8/2013
Roe 804	Washington Bumanglag	3/23/2012	5/8/2013
Roe 805	Walter Bunch	3/23/2012	5/8/2013
Roe 807	Karen Burgess	3/23/2012	5/8/2013
Roe 808	Randy Burgess	3/23/2012	5/8/2013
Roe 809	Raymond Burns	3/23/2012	5/8/2013
Roe 810	Doretha Burrell	3/23/2012	5/8/2013
Roe 814	Buytkus Family Trust	3/23/2012	5/8/2013
Roe 815	Daniel Byrne	3/23/2012	5/8/2013
Roe 816	David Byrne	3/23/2012	5/8/2013
Roe 820	Belva Caldwell	3/23/2012	5/8/2013
Roe 824	Marvin Calmeson	3/23/2012	5/8/2013
Roe 825	Herminia Camacho	3/23/2012	5/8/2013
Roe 826	Julian Camacho	3/23/2012	5/8/2013
Roe 827	Ricardo Camarena	3/23/2012	5/8/2013
Roe 828	Cambridge Homes, Inc.	3/23/2012	5/8/2013
Roe 829	Bonnie Cameron	3/23/2012	5/8/2013
Roe 830	James Cameron	3/23/2012	5/8/2013
Roe 832	Erika Campbell	3/23/2012	5/8/2013
Roe 837	Lynda Capel	3/23/2012	5/8/2013
Roe 839	Barbara Carey	3/23/2012	5/8/2013
Roe 840	Donald Carey	3/23/2012	5/8/2013
Roe 841	Ernest Caringi	3/23/2012	5/8/2013
Roe 842	Violet Carlisle	3/23/2012	5/8/2013
Roe 843	Timothy Carney	3/23/2012	5/8/2013
Roe 844	Rosendo Carranza	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 847	Toribio Carrasco	3/23/2012	5/8/2013
Roe 848	Irene Carroll	3/23/2012	5/8/2013
Roe 849	James Carroll	3/23/2012	5/8/2013
Roe 850	Bera Carruthers	3/23/2012	5/8/2013
Roe 851	James B Caskey	3/23/2012	5/8/2013
Roe 852	Ruby J Caskey	3/23/2012	5/8/2013
Roe 853	Eugenia Carter	3/23/2012	5/8/2013
Roe 855	Terry Carter	3/23/2012	5/8/2013
Roe 856	Gary Castelan	3/23/2012	5/8/2013
Roe 857	Sharon Castelan	3/23/2012	5/8/2013
Roe 861	Jose Castillo	3/23/2012	5/8/2013
Roe 862	Remedios Castillo	3/23/2012	5/8/2013
Roe 864	Robert & Norma Caudle	3/23/2012	5/8/2013
Roe 865	Aurelia Cayetano	3/23/2012	5/8/2013
Roe 866	Edgardo Cayetano	3/23/2012	5/8/2013
Roe 867	Julia Cecil	3/23/2012	5/8/2013
Roe 868	Ken Cecil	3/23/2012	5/8/2013
Roe 869	Gilbert Ceniceros	3/23/2012	5/8/2013
Roe 870	Edward Cernicky	3/23/2012	5/8/2013
Roe 871	Florence Cernicky	3/23/2012	5/8/2013
Roe 872	Marc Chachuat	3/23/2012	5/8/2013
Roe 873	Sukhdev Chahal	3/23/2012	5/8/2013
Roe 877	Siu Chan	3/23/2012	5/8/2013
Roe 878	Beverly Chandler	3/23/2012	5/8/2013
Roe 879	Burton Chandler	3/23/2012	5/8/2013
Roe 880	Moon Chang	9/17/2015	10/16/2015
Roe 881	Py Chao	3/23/2012	5/8/2013
Roe 883	Christopher Cheung	3/23/2012	5/8/2013
Roe 886	Hu Chi Yu	3/23/2012	5/8/2013
Roe 887	Chou Chiang	3/23/2012	5/8/2013
Roe 888	Tim Chiu	3/23/2012	5/8/2013
Roe 889	Mi Choe	3/23/2012	5/8/2013
Roe 890	Pyong Choe	3/23/2012	5/8/2013
Roe 891	Kenneth Choi	3/23/2012	5/8/2013
Roe 892	Edwin Chong	3/23/2012	5/8/2013
Roe 894	Boniface Choy	3/23/2012	5/8/2013
Roe 898	John Christie	3/23/2012	5/8/2013
Roe 900	Ardathe Christopher	3/23/2012	5/8/2013
Roe 901	Daphne Chu	3/23/2012	5/8/2013
Roe 905	Fred Chung	3/23/2012	5/8/2013
Roe 906	Gabrielle Chung	3/23/2012	5/8/2013
Roe 907	John Cinfio	3/23/2012	5/8/2013
Roe 908	James Cipollone	3/23/2012	5/8/2013
Roe 909	Richard Clark	3/23/2012	5/8/2013
Roe 911	Russell Clawson	3/23/2012	5/8/2013
Roe 912	Gail Clutter	3/23/2012	5/8/2013
Roe 913	Ralph Clutter	3/23/2012	5/8/2013
Roe 914	Lap Co	3/23/2012	5/8/2013
Roe 916	Marc Cole	3/23/2012	5/8/2013
Roe 918	William Collicutt	3/23/2012	5/8/2013
Roe 919	Beatrice Collins	3/23/2012	5/8/2013
Roe 921	Charles Colton	3/23/2012	5/8/2013
Roe 922	Larry Connelly	3/23/2012	5/8/2013
Roe 923	Leo Connelly	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 925	Alan Cook	3/23/2012	5/8/2013
Roe 926	Regina Cooley	3/23/2012	5/8/2013
Roe 927	Denise Cope	3/23/2012	5/8/2013
Roe 928	Thomas Cope	3/23/2012	5/8/2013
Roe 929	Ruby Corder	3/23/2012	5/8/2013
Roe 930	Alfredo Corrales	3/23/2012	5/8/2013
Roe 932	Calvin Cox	3/23/2012	5/8/2013
Roe 935	Ronald Cronk	3/23/2012	5/8/2013
Roe 937	Cora Cruz	3/23/2012	5/8/2013
Roe 938	Felina Cruz	3/23/2012	5/8/2013
Roe 939	Nicasio Cruz	3/23/2012	5/8/2013
Roe 940	Roger Cruz	3/23/2012	5/8/2013
Roe 941	Mike Culha	3/23/2012	5/8/2013
Roe 944	Florin D Souza	3/23/2012	5/8/2013
Roe 945	Anita Dacles	3/23/2012	5/8/2013
Roe 946	Simplicio Dacles	3/23/2012	5/8/2013
Roe 949	Helga Dalley	3/23/2012	5/8/2013
Roe 950	Manfred Dalley	3/23/2012	5/8/2013
Roe 956	Mohammad Daood	3/23/2012	5/8/2013
Roe 957	Saleem Daood	3/23/2012	5/8/2013
Roe 958	Adib Daoud	3/23/2012	5/8/2013
Roe 959	Donna Daugherty	3/23/2012	5/8/2013
Roe 960	Anita Davalos	3/23/2012	5/8/2013
Roe 961	Dominador Davalos	3/23/2012	5/8/2013
Roe 962	Alfred David	3/23/2012	5/8/2013
Roe 965	Douglas Davis	3/23/2012	5/8/2013
Roe 966	James Davis	3/23/2012	5/8/2013
Roe 968	Davis Sibs Inc	3/23/2012	5/8/2013
Roe 977	Sefey Debotoun	3/23/2012	5/8/2013
Roe 978	Angelito Dedios	3/23/2012	5/8/2013
Roe 979	Bruno Deluca	3/23/2012	5/8/2013
Roe 981	Olin Derrick	3/23/2012	5/8/2013
Roe 982	Deneen Deschene	3/23/2012	5/8/2013
Roe 983	Desert Lake L P	3/23/2012	5/8/2013
Roe 984	Juan Diaz	3/23/2012	5/8/2013
Roe 987	Gary Dicks	3/23/2012	5/8/2013
Roe 988	Nick Digiulio	3/23/2012	5/8/2013
Roe 989	Richard Dioli	3/23/2012	5/8/2013
Roe 990	Lonzo Dixon	3/23/2012	5/8/2013
Roe 991	Mae Dixon	3/23/2012	5/8/2013
Roe 992	Adelaida Dizon	3/23/2012	5/8/2013
Roe 994	Esteban Donis	3/23/2012	5/8/2013
Roe 995	Mauro Donis	3/23/2012	5/8/2013
Roe 996	Rosalina Donis	3/23/2012	5/8/2013
Roe 997	Virginia Donis	3/23/2012	5/8/2013
Roe 999	Michael Douglas	3/23/2012	5/8/2013
Roe 1000	Katherine Douglass	3/23/2012	5/8/2013
Roe 1001	Borom Douk	3/23/2012	5/8/2013
Roe 1002	S&B Douk	3/23/2012	5/8/2013
Roe 1003	Sokhom Douk	3/23/2012	5/8/2013
Roe 1004	James Downing	3/23/2012	5/8/2013
Roe 1005	Gary Downs	3/23/2012	5/8/2013
Roe 1006	Romnia Drever	3/23/2012	5/8/2013
Roe 1009	Eliseo Dumbrique	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1010	Cynthia Dunlop	3/23/2012	5/8/2013
Roe 1011	James Dunn	3/23/2012	5/8/2013
Roe 1012	Raymond Dunning	3/23/2012	5/8/2013
Roe 1013	Loc Duong	3/23/2012	5/8/2013
Roe 1014	Harold Dykstra	3/23/2012	5/8/2013
Roe 1015	Teresa Dykstra	3/23/2012	5/8/2013
Roe 1016	Wilbur Dykstra	3/23/2012	5/8/2013
Roe 1017	Dykstra Family Trust	3/23/2012	5/8/2013
Roe 1018	E I C Group et al	3/23/2012	5/8/2013
Roe 1019	Dorothy Earl	3/23/2012	5/8/2013
Roe 1020	Jack Earl	3/23/2012	5/8/2013
Roe 1021	David Earwood	3/23/2012	5/8/2013
Roe 1022	Benjamin Easter	3/23/2012	5/8/2013
Roe 1023	Joanne Ebert	3/23/2012	5/8/2013
Roe 1024	David Eckberg	3/23/2012	5/8/2013
Roe 1025	Paula Eckberg	3/23/2012	5/8/2013
Roe 1026	Dale Eckles	3/23/2012	5/8/2013
Roe 1027	Jean Economou	3/23/2012	5/8/2013
Roe 1028	John Edmonds	3/23/2012	5/8/2013
Roe 1034	Theodore Elness	3/23/2012	5/8/2013
Roe 1035	Rosa Elumba	3/23/2012	5/8/2013
Roe 1036	Zenaida Emms	3/23/2012	5/8/2013
Roe 1037	Rosario Empert	3/23/2012	5/8/2013
Roe 1039	Lorin Ensminger	3/23/2012	5/8/2013
Roe 1040	Catherine Erazim	3/23/2012	5/8/2013
Roe 1041	Catherine Erazim	3/23/2012	5/8/2013
Roe 1043	John Escobar	3/23/2012	5/8/2013
Roe 1044	Rose Esparza	3/23/2012	5/8/2013
Roe 1045	Filomena Espiritu	3/23/2012	5/8/2013
Roe 1046	William Espiritu	3/23/2012	5/8/2013
Roe 1047	Basilio Esquivel	3/23/2012	5/8/2013
Roe 1048	Irma Koburn as Beneficiary of the Estate of Zelda C Schliske Decd	3/23/2012	5/8/2013
Roe 1049	Edelmira Estrada	3/23/2012	5/8/2013
Roe 1050	Hervi Estrada	3/23/2012	5/8/2013
Roe 1053	Carl Fabrizio	3/23/2012	5/8/2013
Roe 1054	Fairview Development LLC	3/23/2012	5/8/2013
Roe 1058	Richard Faria	3/23/2012	5/8/2013
Roe 1060	Deborah Feliciano	3/23/2012	5/8/2013
Roe 1061	Denese Felts	3/23/2012	5/8/2013
Roe 1062	Douglas Felts	3/23/2012	5/8/2013
Roe 1068	Ruth Fike	3/23/2012	5/8/2013
Roe 1069	Claudia Finkel	3/23/2012	5/8/2013
Roe 1071	Mary Fiorito	3/23/2012	5/8/2013
Roe 1073	Joanne Fletcher	3/23/2012	5/8/2013
Roe 1074	Gayle Flores	3/23/2012	5/8/2013
Roe 1075	Maria Flores	3/23/2012	5/8/2013
Roe 1077	Herbert Floyd	3/23/2012	5/8/2013
Roe 1078	Larry Fogleman	3/23/2012	5/8/2013
Roe 1079	Alejandro Fontillas	3/23/2012	5/8/2013
Roe 1080	John Ford	3/23/2012	5/8/2013
Roe 1082	Antonia Fowler	3/23/2012	5/8/2013
Roe 1084	Kevin Frane	3/23/2012	5/8/2013
Roe 1085	Laurel Frane	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1086	Stephenie Fredrick	3/23/2012	5/8/2013
Roe 1087	Esther Friedman	3/23/2012	5/8/2013
Roe 1088	Joanne Fu	3/23/2012	5/8/2013
Roe 1089	Yoshi Fujisawa	3/23/2012	5/8/2013
Roe 1090	Michi Fukumoto	3/23/2012	5/8/2013
Roe 1093	Jeff Galieti	3/23/2012	5/8/2013
Roe 1094	Jose Galvez	3/23/2012	5/8/2013
Roe 1095	Betty Gambone	3/23/2012	5/8/2013
Roe 1099	Martha Garcia	3/23/2012	5/8/2013
Roe 1101	Rodolfo Garcia	3/23/2012	5/8/2013
Roe 1103	Eduardo Garde	3/23/2012	5/8/2013
Roe 1104	Russellend Garde	3/23/2012	5/8/2013
Roe 1105	Garde Fmly Rev Tr	3/23/2012	5/8/2013
Roe 1107	Hung Gee	3/23/2012	5/8/2013
Roe 1111	Stefan Ghika Budesti	3/23/2012	5/8/2013
Roe 1112	Paul Giang	3/23/2012	5/8/2013
Roe 1114	Gilbraltar Homes LLC	3/23/2012	5/8/2013
Roe 1116	George Gillingham	3/23/2012	5/8/2013
Roe 1117	Gisele Schroeder Liv Tr	3/23/2012	5/8/2013
Roe 1118	Drena Glauser	3/23/2012	5/8/2013
Roe 1119	Gary Glenn	3/23/2012	5/8/2013
Roe 1120	Paul Glessner	3/23/2012	5/8/2013
Roe 1122	Benito Gonzales	3/23/2012	5/8/2013
Roe 1123	Erminio Gonzales	3/23/2012	5/8/2013
Roe 1125	Quach Gonzales	3/23/2012	5/8/2013
Roe 1126	Carlos Conzalez	3/23/2012	5/8/2013
Roe 1127	Frances Gonzalez	3/23/2012	5/8/2013
Roe 1128	Gloria Gonzalez	3/23/2012	5/8/2013
Roe 1130	Roque Gonzalez	3/23/2012	5/8/2013
Roe 1131	Tina Gonzalez	3/23/2012	5/8/2013
Roe 1135	Vicente Gose	3/23/2012	5/8/2013
Roe 1136	Christina Goya	3/23/2012	5/8/2013
Roe 1142	William Grant	3/23/2012	5/8/2013
Roe 1144	Barbara Green	3/23/2012	5/8/2013
Roe 1145	Hilda Green	3/23/2012	5/8/2013
Roe 1147	Donna Greenman	3/23/2012	5/8/2013
Roe 1148	Pierre Grember	3/23/2012	5/8/2013
Roe 1150	John Griffin	3/23/2012	5/8/2013
Roe 1154	Gerald Groff	3/23/2012	5/8/2013
Roe 1155	Marian Groff	3/23/2012	5/8/2013
Roe 1156	Lillian Groom	3/23/2012	5/8/2013
Roe 1158	Marge Groven	3/23/2012	5/8/2013
Roe 1159	Lucena Guiang	3/23/2012	5/8/2013
Roe 1160	Cristoval Guillen	3/23/2012	5/8/2013
Roe 1162	Alvaro Gutierrez	3/23/2012	5/8/2013
Roe 1164	Santos Gutierrez	3/23/2012	5/8/2013
Roe 1165	Socorro Gutierrez	3/23/2012	5/8/2013
Roe 1166	Ovidio Guzman	3/23/2012	5/8/2013
Roe 1167	Jin Ha	3/23/2012	5/8/2013
Roe 1168	Young Ha	3/23/2012	5/8/2013
Roe 1170	Susan Hahn	3/23/2012	5/8/2013
Roe 1171	Homa Hamidi	3/23/2012	5/8/2013
Roe 1172	Carrie Hamson	3/23/2012	5/8/2013
Roe 1173	David Hamson	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1174	Dean Hanano	3/23/2012	5/8/2013
Roe 1175	James Hanlon	3/23/2012	5/8/2013
Roe 1176	James Hanlon	3/23/2012	5/8/2013
Roe 1177	Harald Hansen	3/23/2012	5/8/2013
Roe 1178	Christine Hanson	3/23/2012	5/8/2013
Roe 1180	Willis Hard	3/23/2012	5/8/2013
Roe 1181	Joseph Harnik	3/23/2012	5/8/2013
Roe 1182	David Harper	3/23/2012	5/8/2013
Roe 1183	Diane Harris	3/23/2012	5/8/2013
Roe 1184	James Harris	3/23/2012	5/8/2013
Roe 1185	Karen Harris	3/23/2012	5/8/2013
Roe 1186	Karen Hart	3/23/2012	5/8/2013
Roe 1187	Harvell Family Tr	3/23/2012	5/8/2013
Roe 1188	Gary Hathaway	3/23/2012	5/8/2013
Roe 1190	Donald Haydon	3/23/2012	5/8/2013
Roe 1191	Fusako Hazama	3/23/2012	5/8/2013
Roe 1192	Hideo Hazama	3/23/2012	5/8/2013
Roe 1193	Alice Heggen	3/23/2012	5/8/2013
Roe 1195	James Hemming	9/21/2015	10/13/2015
Roe 1197	Corine Henninger	3/23/2012	5/8/2013
Roe 1198	Antonio Hernandez	3/23/2012	5/8/2013
Roe 1199	Carol Herr	3/23/2012	5/8/2013
Roe 1200	Ronald Hetzner	3/23/2012	5/8/2013
Roe 1201	Geraldine Heynen	3/23/2012	5/8/2013
Roe 1202	HGJ LLC	3/23/2012	5/8/2013
Roe 1207	Eric Hillerman	3/23/2012	5/8/2013
Roe 1208	Marilyn Hinck	3/23/2012	5/8/2013
Roe 1212	Thong Ho	3/23/2012	5/8/2013
Roe 1214	Albert Hobayan	3/23/2012	5/8/2013
Roe 1215	Violeta Hobayan	3/23/2012	5/8/2013
Roe 1216	Paul Hodges	3/23/2012	5/8/2013
Roe 1217	Debra Hodsdon	3/23/2012	5/8/2013
Roe 1218	Steve Hodsdon	3/23/2012	5/8/2013
Roe 1219	Wilbert E. Decd Est of Hoffman	3/23/2012	5/8/2013
Roe 1220	Soledad Holguin	3/23/2012	5/8/2013
Roe 1221	Clarissia Holland	3/23/2012	5/8/2013
Roe 1225	Linda Homan	3/23/2012	5/8/2013
Roe 1226	Mathew Homan	3/23/2012	5/8/2013
Roe 1227	Che Hong	3/23/2012	5/8/2013
Roe 1229	Khai Hong	3/23/2012	5/8/2013
Roe 1231	Tony Hong	3/23/2012	5/8/2013
Roe 1232	Martha Hooper	3/23/2012	5/8/2013
Roe 1233	Gary Hoover	3/23/2012	5/8/2013
Roe 1234	Marilyn Hoover	3/23/2012	5/8/2013
Roe 1235	J Hopper	3/23/2012	5/8/2013
Roe 1240	William Hoskins	3/23/2012	5/8/2013
Roe 1243	Janette Hourani	3/23/2012	5/8/2013
Roe 1244	Leslie Howe	3/23/2012	5/8/2013
Roe 1245	Hsiaoni Chang	3/23/2012	5/8/2013
Roe 1247	Marie Hubbard	3/23/2012	5/8/2013
Roe 1248	Cresencio Huerta	3/23/2012	5/8/2013
Roe 1249	Romeo Hughes	3/23/2012	5/8/2013
Roe 1251	Norman Hines	9/21/2015	10/13/2015
Roe 1252	Robert Hunt	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1256	Amy Hwang	3/23/2012	5/8/2013
Roe 1258	Hyun Chul Lee	3/23/2012	5/8/2013
Roe 1259	Kiyoshi Ige	3/23/2012	5/8/2013
Roe 1260	Isidro Ignacio	3/23/2012	5/8/2013
Roe 1262	Veronica Ingersoll	3/23/2012	5/8/2013
Roe 1263	Martin Ingram	3/23/2012	5/8/2013
Roe 1265	Pasquale Ioele	3/23/2012	5/8/2013
Roe 1266	Joy Irish	3/23/2012	5/8/2013
Roe 1267	Robert Irish	3/23/2012	5/8/2013
Roe 1271	Fukuyo Twamoto	3/23/2012	5/8/2013
Roe 1274	Dietra Jackson	3/23/2012	5/8/2013
Roe 1276	Arnold Jacobsen	3/23/2012	5/8/2013
Roe 1277	Jagatri L and Xantha Dhawan	3/23/2012	5/8/2013
Roe 1278	Richard James	3/23/2012	5/8/2013
Roe 1279	David Jauregui	3/23/2012	5/8/2013
Roe 1280	Isaura Jauregui	3/23/2012	5/8/2013
Roe 1283	Enid Jeffrey	3/23/2012	5/8/2013
Roe 1286	Bobby Jennings	3/23/2012	5/8/2013
Roe 1287	Patricia Jennings	3/23/2012	5/8/2013
Roe 1289	Enrique Jimenez	3/23/2012	5/8/2013
Roe 1291	Henry Johnson	3/23/2012	5/8/2013
Roe 1294	Betty Jones	3/23/2012	5/8/2013
Roe 1295	Christine Jones	3/23/2012	5/8/2013
Roe 1296	David Jones	3/23/2012	5/8/2013
Roe 1297	Esther Jones	3/23/2012	5/8/2013
Roe 1298	Harold Jones	3/23/2012	5/8/2013
Roe 1301	Morton Juhl	3/23/2012	5/8/2013
Roe 1302	K A Investment Co LLC	3/23/2012	5/8/2013
Roe 1303	Isako Kagehiro	3/23/2012	5/8/2013
Roe 1304	Kenichi Kagehiro	3/23/2012	5/8/2013
Roe 1305	Mitsue Kanamori	3/23/2012	5/8/2013
Roe 1307	Katsuko Kariya	3/23/2012	5/8/2013
Roe 1308	Katsumi Kariya	3/23/2012	5/8/2013
Roe 1309	Nicholas Karthas	3/23/2012	5/8/2013
Roe 1310	Colleen Kasper	3/23/2012	5/8/2013
Roe 1311	Gordon Katsion	3/23/2012	5/8/2013
Roe 1312	Kaufler Trust	3/23/2012	5/8/2013
Roe 1313	Wayne Kawamoto	3/23/2012	5/8/2013
Roe 1314	Nancy Kawamura	3/23/2012	5/8/2013
Roe 1315	Yasuko Kawamura	3/23/2012	5/8/2013
Roe 1316	Keast Fmly Tr	3/23/2012	5/8/2013
Roe 1317	Keck Fmly Tr	3/23/2012	5/8/2013
Roe 1319	Arpineh Keklikian	3/23/2012	5/8/2013
Roe 1320	Missak Keklikian	3/23/2012	5/8/2013
Roe 1321	Marie Kendrick	3/23/2012	5/8/2013
Roe 1324	Joel Kettenring	3/23/2012	5/8/2013
Roe 1325	Pauline Kettenring	3/23/2012	5/8/2013
Roe 1326	Harriet Kettles	3/23/2012	5/8/2013
Roe 1327	Sandra Key	3/23/2012	5/8/2013
Roe 1331	Fadi Khater	3/23/2012	5/8/2013
Roe 1332	Lorna Kila	3/23/2012	5/8/2013
Roe 1334	Soo Kim	3/23/2012	5/8/2013
Roe 1337	Carol Kinat	3/23/2012	5/8/2013
Roe 1338	Chun King	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1339	William King	3/23/2012	5/8/2013
Roe 1341	Freda Kirkland	3/23/2012	5/8/2013
Roe 1345	Howard Klekar	3/23/2012	5/8/2013
Roe 1346	Frank Klojda	3/23/2012	5/8/2013
Roe 1348	Irene Knapp	3/23/2012	5/8/2013
Roe 1349	Kobayashi Family Trust	3/23/2012	5/8/2013
Roe 1351	Josephine Kollar	3/23/2012	5/8/2013
Roe 1352	William Kooken	3/23/2012	5/8/2013
Roe 1353	John Kostszewa	3/23/2012	5/8/2013
Roe 1354	Marlene Kostszewa	3/23/2012	5/8/2013
Roe 1356	Pamela Kousen	3/23/2012	5/8/2013
Roe 1358	Robert Kramer	3/23/2012	5/8/2013
Roe 1359	David Ku	3/23/2012	5/8/2013
Roe 1360	Sou Ku	3/23/2012	5/8/2013
Roe 1362	Terry Kuchta	3/23/2012	5/8/2013
Roe 1363	Seishi Kumagai	3/23/2012	5/8/2013
Roe 1364	Wei Kung	3/23/2012	5/8/2013
Roe 1366	Julia Kyle	3/23/2012	5/8/2013
Roe 1367	Jean La Porte	3/23/2012	5/8/2013
Roe 1368	Lilia Laguerta	3/23/2012	5/8/2013
Roe 1369	Deloris Lambert	3/23/2012	5/8/2013
Roe 1370	Nancy Lambert	3/23/2012	5/8/2013
Roe 1371	Lancaster Blvd	3/23/2012	5/8/2013
Roe 1372	Lancaster Blvd and 42nd St West	3/23/2012	5/8/2013
Roe 1373	Lancaster New Horizons	3/23/2012	5/8/2013
Roe 1374	Pearl Landau	3/23/2012	5/8/2013
Roe 1375	William Landau	3/23/2012	5/8/2013
Roe 1376	Jesus Landeverde	3/23/2012	5/8/2013
Roe 1378	Roberto Landeros	3/23/2012	5/8/2013
Roe 1382	William Lanier	3/23/2012	5/8/2013
Roe 1383	Ann Lanktree	3/23/2012	5/8/2013
Roe 1386	Bonnie Large	3/23/2012	5/8/2013
Roe 1387	Robert Large	3/23/2012	5/8/2013
Roe 1388	Samson Larranaga	3/23/2012	5/8/2013
Roe 1390	Alton Law	3/23/2012	5/8/2013
Roe 1391	Michael Lawrence	3/23/2012	5/8/2013
Roe 1392	Louie Laymance	3/23/2012	5/8/2013
Roe 1395	Conrado Lazo	3/23/2012	5/8/2013
Roe 1396	Elizabeth Lazo	3/23/2012	5/8/2013
Roe 1398	Loi Le	3/23/2012	5/8/2013
Roe 1400	Suong Le	3/23/2012	5/8/2013
Roe 1401	Yen Le	3/23/2012	5/8/2013
Roe 1402	Cornelius Leary	3/23/2012	5/8/2013
Roe 1404	Margaret Lebrecht	3/23/2012	5/8/2013
Roe 1405	Chi Lee	3/23/2012	5/8/2013
Roe 1406	Delano Lee	3/23/2012	5/8/2013
Roe 1407	Jim Lee	3/23/2012	5/8/2013
Roe 1408	Mai Lee	3/23/2012	5/8/2013
Roe 1409	Ting Lee	3/23/2012	5/8/2013
Roe 1412	Aurelia Legaspi	3/23/2012	5/8/2013
Roe 1413	Felimon Legaspi	3/23/2012	5/8/2013
Roe 1415	Leighton Leno	3/23/2012	5/8/2013
Roe 1416	Nancy Leno	3/23/2012	5/8/2013
Roe 1418	Mariane Lesiak	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1419	Max Lesiak	3/23/2012	5/8/2013
Roe 1420	Ramie Leung	3/23/2012	5/8/2013
Roe 1425	Rudolfo Libed	3/23/2012	5/8/2013
Roe 1426	Lien Family Survivors Trust	3/23/2012	5/8/2013
Roe 1427	Michael Liggett	3/23/2012	5/8/2013
Roe 1428	Camila Lim	3/23/2012	5/8/2013
Roe 1429	Leonore Limos	3/23/2012	5/8/2013
Roe 1430	Tachung Lin	3/23/2012	5/8/2013
Roe 1431	Donald Linde	3/23/2012	5/8/2013
Roe 1432	Ling Ling Fang	3/23/2012	5/8/2013
Roe 1433	Lilla Liong	3/23/2012	5/8/2013
Roe 1434	Chih Liu	3/23/2012	5/8/2013
Roe 1435	Suh Liu	3/23/2012	5/8/2013
Roe 1436	Shirley Lizotte	3/23/2012	5/8/2013
Roe 1437	Edith Llanda	3/23/2012	5/8/2013
Roe 1438	Lloyd F Avery Tr	3/23/2012	5/8/2013
Roe 1441	Carmelita Locsin	3/23/2012	5/8/2013
Roe 1442	Hilario Locsin	3/23/2012	5/8/2013
Roe 1443	Mary Logue	3/23/2012	5/8/2013
Roe 1444	Thanh Loi	3/23/2012	5/8/2013
Roe 1445	Lola R Johnson Trust	3/23/2012	5/8/2013
Roe 1446	Lombardo Fmly Rev Liv Tr	3/23/2012	5/8/2013
Roe 1448	Thomas Lopac	3/23/2012	5/8/2013
Roe 1449	Mark Lopez	3/23/2012	5/8/2013
Roe 1450	Olivia Lopez	3/23/2012	5/8/2013
Roe 1451	Victor Lopez	3/23/2012	5/8/2013
Roe 1452	Bernard Los Banos	3/23/2012	5/8/2013
Roe 1455	Charles Lowery	3/23/2012	5/8/2013
Roe 1458	Eva Lubbers	3/23/2012	5/8/2013
Roe 1459	Robert Lucero	3/23/2012	5/8/2013
Roe 1460	Maria Ludovico	3/23/2012	5/8/2013
Roe 1461	Mike Ly	3/23/2012	5/8/2013
Roe 1462	Patricia Lynch	3/23/2012	5/8/2013
Roe 1464	Christi Lyons	3/23/2012	5/8/2013
Roe 1465	John Lyons	3/23/2012	5/8/2013
Roe 1466	M14 Development LLC	3/23/2012	5/8/2013
Roe 1467	Bernadette Macadaeg	3/23/2012	5/8/2013
Roe 1468	Jeanenne Mace	3/23/2012	5/8/2013
Roe 1469	Mark Mace	3/23/2012	5/8/2013
Roe 1470	Antonio Macias	3/23/2012	5/8/2013
Roe 1471	Benjamin Macias	3/23/2012	5/8/2013
Roe 1472	Martina Macias	3/23/2012	5/8/2013
Roe 1473	James Mackel	3/23/2012	5/8/2013
Roe 1474	Antonio Madrigal	3/23/2012	5/8/2013
Roe 1475	Cecilia Magalona	3/23/2012	5/8/2013
Roe 1476	Pale Mageo	3/23/2012	5/8/2013
Roe 1477	Patrocinio Maglaya	3/23/2012	5/8/2013
Roe 1478	Robert Magliano	3/23/2012	5/8/2013
Roe 1479	Rosalin Magliano	3/23/2012	5/8/2013
Roe 1480	Rolado Magtaas	3/23/2012	5/8/2013
Roe 1482	Vanna Mak	3/23/2012	5/8/2013
Roe 1483	Angela Malay	3/23/2012	5/8/2013
Roe 1484	Narciso Malit	3/23/2012	5/8/2013
Roe 1485	Lorie Manay	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1486	Luzviminda Mandac	3/23/2012	5/8/2013
Roe 1487	David Manery	3/23/2012	5/8/2013
Roe 1488	Carol Mannino	3/23/2012	5/8/2013
Roe 1489	Charito Manuel	3/23/2012	5/8/2013
Roe 1492	Charles Manzo	3/23/2012	5/8/2013
Roe 1493	Rudolph Maravich	3/23/2012	5/8/2013
Roe 1494	Maree J De Lano Tr.	3/23/2012	5/8/2013
Roe 1496	Helen Marotta	3/23/2012	5/8/2013
Roe 1497	Alfredo Marquez	3/23/2012	5/8/2013
Roe 1498	Manuela Marquez	3/23/2012	5/8/2013
Roe 1501	Mary Marsh	3/23/2012	5/8/2013
Roe 1503	Byrn Marshall	3/23/2012	5/8/2013
Roe 1506	Alma Martin	3/23/2012	5/8/2013
Roe 1507	Arthur Martin	3/23/2012	5/8/2013
Roe 1508	Barbara Martin	3/23/2012	5/8/2013
Roe 1509	Thomas Martin	3/23/2012	5/8/2013
Roe 1510	Francisco Martinez	3/23/2012	5/8/2013
Roe 1512	Jesus Martinez	3/23/2012	5/8/2013
Roe 1514	Maria Martinez	3/23/2012	5/8/2013
Roe 1515	Robert Martinez	3/23/2012	5/8/2013
Roe 1523	Mildred Mason	3/23/2012	5/8/2013
Roe 1524	Donald Masters	3/23/2012	5/8/2013
Roe 1526	Rosario Mata	3/23/2012	5/8/2013
Roe 1528	Sumiko Matsushima	3/23/2012	5/8/2013
Roe 1529	Fulton Matthews	3/23/2012	5/8/2013
Roe 1530	Matthew Maurice	3/23/2012	5/8/2013
Roe 1531	Shirley Maxilom	3/23/2012	5/8/2013
Roe 1532	Catherine Maxwell	3/23/2012	5/8/2013
Roe 1535	Gustauo Mazariegos	3/23/2012	5/8/2013
Roe 1536	Linda Mazariegos	3/23/2012	5/8/2013
Roe 1539	Raymond Mc Kay	3/23/2012	5/8/2013
Roe 1540	B Mc Laren	3/23/2012	5/8/2013
Roe 1541	Brian Mc Laughlin	3/23/2012	5/8/2013
Roe 1542	Rae McAllister	3/23/2012	5/8/2013
Roe 1543	Julienne McCalman	3/23/2012	5/8/2013
Roe 1544	Walter McCalman	3/23/2012	5/8/2013
Roe 1545	Loreta McClain	3/23/2012	5/8/2013
Roe 1546	Susan McCline	3/23/2012	5/8/2013
Roe 1547	Donan McClung	3/23/2012	5/8/2013
Roe 1548	Frederick McCool	3/23/2012	5/8/2013
Roe 1549	Rita McCool	3/23/2012	5/8/2013
Roe 1550	Jerrie McDowell	3/23/2012	5/8/2013
Roe 1551	Patty McGahan	3/23/2012	5/8/2013
Roe 1553	Edwin McNinch	3/23/2012	5/8/2013
Roe 1554	Margaret McNinch	3/23/2012	5/8/2013
Roe 1557	Julian Medina	3/23/2012	5/8/2013
Roe 1558	Juana Mejia	3/23/2012	5/8/2013
Roe 1559	Leonard Mellow	3/23/2012	5/8/2013
Roe 1560	Alfredo Mendoza	3/23/2012	5/8/2013
Roe 1561	Cuauhtemoc Mendoza	3/23/2012	5/8/2013
Roe 1563	Herminia Messier	3/23/2012	5/8/2013
Roe 1564	Leonard Messier	3/23/2012	5/8/2013
Roe 1565	David Meyer	3/23/2012	5/8/2013
Roe 1566	Lisa Meyer	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1567	Meyer Crest Ltd	3/23/2012	5/8/2013
Roe 1568	Meyer Crest Ltr	3/23/2012	5/8/2013
Roe 1571	Hisao Mihara	3/23/2012	5/8/2013
Roe 1572	Molly Mikel	3/23/2012	5/8/2013
Roe 1573	Sam Mikel	3/23/2012	5/8/2013
Roe 1575	Linda Miller	3/23/2012	5/8/2013
Roe 1576	Nancy Miller	3/23/2012	5/8/2013
Roe 1577	Raymond Miller	3/23/2012	5/8/2013
Roe 1578	Richard Miller	3/23/2012	5/8/2013
Roe 1579	Steven Miller	3/23/2012	5/8/2013
Roe 1582	Roldan Mina	9/17/2015	10/16/2015
Roe 1583	Lieu Minh	3/23/2012	5/8/2013
Roe 1584	Van Minh	3/23/2012	5/8/2013
Roe 1585	Salvador Miranda	3/23/2012	5/8/2013
Roe 1586	Morteza Mirkazemi	3/23/2012	5/8/2013
Roe 1587	Susan Mirkazemi	3/23/2012	5/8/2013
Roe 1590	Janice Mitsushima	3/23/2012	5/8/2013
Roe 1593	Chiung Mo	3/23/2012	5/8/2013
Roe 1595	Bjorn Moene	3/23/2012	5/8/2013
Roe 1596	Celina Molina	3/23/2012	5/8/2013
Roe 1598	Patricio Moneda	3/23/2012	5/8/2013
Roe 1599	Saeed Monfared	3/23/2012	5/8/2013
Roe 1600	Eusebio Montemayor	3/23/2012	5/8/2013
Roe 1601	Maria Montes	3/23/2012	5/8/2013
Roe 1602	Judith Moore	3/23/2012	5/8/2013
Roe 1603	Thomas Moore	3/23/2012	5/8/2013
Roe 1604	William Moore	3/23/2012	5/8/2013
Roe 1605	Michael Moreno	3/23/2012	5/8/2013
Roe 1606	Ritsuko Mori	3/23/2012	5/8/2013
Roe 1607	John Morris	3/23/2012	5/8/2013
Roe 1609	Mary Moses	3/23/2012	5/8/2013
Roe 1610	Firouzeh Motavvef	3/23/2012	5/8/2013
Roe 1611	Mansoor Motavvef	3/23/2012	5/8/2013
Roe 1612	Girard Moughalian	3/23/2012	5/8/2013
Roe 1613	Renate Moughalian	3/23/2012	5/8/2013
Roe 1614	Marilyn Mudgett	3/23/2012	5/8/2013
Roe 1615	Brandon Mullins	3/23/2012	5/8/2013
Roe 1616	Maia Mulvena	3/23/2012	5/8/2013
Roe 1618	Emma Mungia	3/23/2012	5/8/2013
Roe 1620	Dan Munz	3/23/2012	5/8/2013
Roe 1623	Bronwyn Murdock	3/23/2012	5/8/2013
Roe 1624	Estela Muro	3/23/2012	5/8/2013
Roe 1626	Murtaugh Survivors Trust	3/23/2012	5/8/2013
Roe 1628	Duk Myung	3/23/2012	5/8/2013
Roe 1629	Hyun Myung	3/23/2012	5/8/2013
Roe 1631	Mary Nadwodny	3/23/2012	5/8/2013
Roe 1635	Satoye Nakamichi	3/23/2012	5/8/2013
Roe 1636	Yoshito Nakashima	3/23/2012	5/8/2013
Roe 1637	Shizuko Nakawatase	3/23/2012	5/8/2013
Roe 1638	Yoshitaka Nakawatase	3/23/2012	5/8/2013
Roe 1639	Jim Nanamkin	3/23/2012	5/8/2013
Roe 1640	David Naputi	3/23/2012	5/8/2013
Roe 1642	Nationwide Asset Management LP	3/23/2012	5/8/2013
Roe 1643	Charyl Naval	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1645	Andrea Navarro	3/23/2012	5/8/2013
Roe 1647	Jose Navarro	3/23/2012	5/8/2013
Roe 1651	Dorwin Newman	3/23/2012	5/8/2013
Roe 1652	Shirley Newman	3/23/2012	5/8/2013
Roe 1653	Newsom Family Trust	3/23/2012	5/8/2013
Roe 1654	Binh Ngo	3/23/2012	5/8/2013
Roe 1655	Anthony Nguyen	3/23/2012	5/8/2013
Roe 1656	Danny Nguyen	3/23/2012	5/8/2013
Roe 1657	Frank Nguyen	3/23/2012	5/8/2013
Roe 1658	Ngoc Nguyen	3/23/2012	5/8/2013
Roe 1659	Nguyet Nguyen	3/23/2012	5/8/2013
Roe 1660	Sonnie Nguyen	3/23/2012	5/8/2013
Roe 1661	Thanh Nguyen	3/23/2012	5/8/2013
Roe 1665	Gerard Nicholson	3/23/2012	5/8/2013
Roe 1666	Marie Nicholson	3/23/2012	5/8/2013
Roe 1668	Eric Nishida	3/23/2012	5/8/2013
Roe 1670	Lydia Nixon	3/23/2012	5/8/2013
Roe 1672	Dixie Noel	3/23/2012	5/8/2013
Roe 1674	Mark Noterman	3/23/2012	5/8/2013
Roe 1675	Yvette Noterman	3/23/2012	5/8/2013
Roe 1676	Nancy Nou	3/23/2012	5/8/2013
Roe 1677	Cipriano Noveloso	3/23/2012	5/8/2013
Roe 1678	Dolores Noveloso	3/23/2012	5/8/2013
Roe 1679	Henry Nozaki	3/23/2012	5/8/2013
Roe 1680	Naomi Nozaki	3/23/2012	5/8/2013
Roe 1681	Mary Nutter	3/23/2012	5/8/2013
Roe 1682	Merle Oberg	3/23/2012	5/8/2013
Roe 1683	Timothy Oconnor	3/23/2012	5/8/2013
Roe 1684	Jessie Ohta	3/23/2012	5/8/2013
Roe 1685	Haruto Okihara	3/23/2012	5/8/2013
Roe 1687	Rick Olivas	3/23/2012	5/8/2013
Roe 1688	Olson Family Trust	3/23/2012	5/8/2013
Roe 1691	Adoracion Orara	3/23/2012	5/8/2013
Roe 1692	Francisco Orara	3/23/2012	5/8/2013
Roe 1694	Evelyn Ortega	3/23/2012	5/8/2013
Roe 1695	Joe Mari Ortega	3/23/2012	5/8/2013
Roe 1696	Pedro Ortega	3/23/2012	5/8/2013
Roe 1698	Doris Oshiro	3/23/2012	5/8/2013
Roe 1699	Firooz Oskooi	3/23/2012	5/8/2013
Roe 1705	Charlene Padgett	3/23/2012	5/8/2013
Roe 1706	Roy Padgett	3/23/2012	5/8/2013
Roe 1707	Marta Padilla	3/23/2012	5/8/2013
Roe 1708	Paz Padilla	3/23/2012	5/8/2013
Roe 1709	Claire Padua	3/23/2012	5/8/2013
Roe 1711	Leonida Pagdilao	3/23/2012	5/8/2013
Roe 1712	Julio Palacio	3/23/2012	5/8/2013
Roe 1714	Palmdale 5th Street West LLC	3/23/2012	5/8/2013
Roe 1715	Palmdale Family Housing	3/23/2012	5/8/2013
Roe 1716	Palmdale Lodging Associates LLC	3/23/2012	5/8/2013
Roe 1717	Palmdale Mobile Park LLC	3/23/2012	5/8/2013
Roe 1719	Eugenio Paredes	3/23/2012	5/8/2013
Roe 1721	Choon Park	9/21/2015	10/13/2015
Roe 1722	Inyoung Park	3/23/2012	5/8/2013
Roe 1728	Jose Pastrano	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1730	Sally Patino	3/23/2012	5/8/2013
Roe 1732	Adrian Pauling	3/23/2012	5/8/2013
Roe 1738	Vicenta Pena	3/23/2012	5/8/2013
Roe 1740	Michael Pereira	3/23/2012	5/8/2013
Roe 1741	Rosa Perez	3/23/2012	5/8/2013
Roe 1742	PH Rosamond LLC	3/23/2012	5/8/2013
Roe 1743	Orrin Phillips	3/23/2012	5/8/2013
Roe 1744	Paul Pieratt	3/23/2012	5/8/2013
Roe 1748	Arthur Pizano	3/23/2012	5/8/2013
Roe 1750	Tavil Ployngam	3/23/2012	5/8/2013
Roe 1751	Perla Pollard	3/23/2012	5/8/2013
Roe 1752	Robert Pollard	3/23/2012	5/8/2013
Roe 1755	Poole Family Tr	3/23/2012	5/8/2013
Roe 1756	Dora Porcari	3/23/2012	5/8/2013
Roe 1760	Robert Potter	3/23/2012	5/8/2013
Roe 1762	Waraya Pratanthip	3/23/2012	5/8/2013
Roe 1764	Romano Procida	3/23/2012	5/8/2013
Roe 1765	Bruno Prodan	3/23/2012	5/8/2013
Roe 1766	Rosa Prodan	3/23/2012	5/8/2013
Roe 1767	PVK Family Limited Ptn	3/23/2012	5/8/2013
Roe 1768	Quan Quoc Pham	3/23/2012	5/8/2013
Roe 1769	Quantumcue Inc	3/23/2012	5/8/2013
Roe 1770	Bella Questin	3/23/2012	5/8/2013
Roe 1773	Mary Quinlan	3/23/2012	5/8/2013
Roe 1774	Theodore Rabena	3/23/2012	5/8/2013
Roe 1776	Armando Raguine	3/23/2012	5/8/2013
Roe 1778	Gay Ralphs	3/23/2012	5/8/2013
Roe 1779	Fred Rampe	3/23/2012	5/8/2013
Roe 1780	Felicitas Ranada	3/23/2012	5/8/2013
Roe 1782	Mahmud Rawjee	3/23/2012	5/8/2013
Roe 1783	Fereidoun Razavi	3/23/2012	5/8/2013
Roe 1784	Clarence Razer	3/23/2012	5/8/2013
Roe 1785	Jean Razer	3/23/2012	5/8/2013
Roe 1786	Joan Reach	3/23/2012	5/8/2013
Roe 1788	Robert Reed	3/23/2012	5/8/2013
Roe 1789	Barbara Reff	3/23/2012	5/8/2013
Roe 1790	Herbert Reff	3/23/2012	5/8/2013
Roe 1791	Mary Reid	3/23/2012	5/8/2013
Roe 1795	Concepcion Reyes	3/23/2012	5/8/2013
Roe 1796	Elizabeth Reyes	3/23/2012	5/8/2013
Roe 1797	Ernesto Reyes	3/23/2012	5/8/2013
Roe 1798	Vicente Reyes	3/23/2012	5/8/2013
Roe 1801	Sei Rhee	3/23/2012	5/8/2013
Roe 1803	Susan Rhoda	3/23/2012	5/8/2013
Roe 1804	Michele Rhoden	3/23/2012	5/8/2013
Roe 1805	Morris Richards	3/23/2012	5/8/2013
Roe 1807	Ronald Ricketts	3/23/2012	5/8/2013
Roe 1810	Anita Rider	3/23/2012	5/8/2013
Roe 1811	Florence Rimando	3/23/2012	5/8/2013
Roe 1812	Ruben Rimando	3/23/2012	5/8/2013
Roe 1813	Maria Rios	3/23/2012	5/8/2013
Roe 1814	Nicolas Rios	3/23/2012	5/8/2013
Roe 1815	Joyce Ripperda	3/23/2012	5/8/2013
Roe 1816	James Rippon	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1818	George Rivera	3/23/2012	5/8/2013
Roe 1820	David Robbie	3/23/2012	5/8/2013
Roe 1821	Kinue Robbie	3/23/2012	5/8/2013
Roe 1822	Tracy Roberson	3/23/2012	5/8/2013
Roe 1824	Charles Robertson	3/23/2012	5/8/2013
Roe 1825	Albert Rodarte	3/23/2012	5/8/2013
Roe 1826	Concepcion Rodriguez	3/23/2012	5/8/2013
Roe 1827	Guadalupe Rodriguez	3/23/2012	5/8/2013
Roe 1828	Ignacio Rodriguez	3/23/2012	5/8/2013
Roe 1829	John Rodriguez	3/23/2012	5/8/2013
Roe 1831	Roquemore Tr	3/23/2012	5/8/2013
Roe 1832	Russell Rosenberry	3/23/2012	5/8/2013
Roe 1835	Robert Rosenthal	3/23/2012	5/8/2013
Roe 1836	Ross Rebar Co., Inc.	3/23/2012	5/8/2013
Roe 1837	Richard Rottgering	3/23/2012	5/8/2013
Roe 1838	Trisha Rowe	3/23/2012	5/8/2013
Roe 1839	Marshall Rowen	3/23/2012	5/8/2013
Roe 1840	Myra Rowland	3/23/2012	5/8/2013
Roe 1841	Sidney Ru	3/23/2012	5/8/2013
Roe 1842	James Rubenstein	3/23/2012	5/8/2013
Roe 1846	Dewey Runkle	3/23/2012	5/8/2013
Roe 1847	Lynn Ruona	3/23/2012	5/8/2013
Roe 1848	Frederick Ruopp	3/23/2012	5/8/2013
Roe 1849	Berna Russell	3/23/2012	5/8/2013
Roe 1850	Helen Russell	3/23/2012	5/8/2013
Roe 1851	Patricia Ruston	3/23/2012	5/8/2013
Roe 1852	Tom Ruston	3/23/2012	5/8/2013
Roe 1854	Hermogenes Sacman	3/23/2012	5/8/2013
Roe 1860	Katsuji Saito	3/23/2012	5/8/2013
Roe 1861	Gabriel Salazar	3/23/2012	5/8/2013
Roe 1862	Hoger Saleh	3/23/2012	5/8/2013
Roe 1863	Betty Sallen	3/23/2012	5/8/2013
Roe 1864	Joseph Sallen	3/23/2012	5/8/2013
Roe 1865	San Diego French American	3/23/2012	5/8/2013
Roe 1867	Francisco Sanchez	3/23/2012	5/8/2013
Roe 1868	Maria Sanchez	3/23/2012	5/8/2013
Roe 1869	Gregorio Santos	3/23/2012	5/8/2013
Roe 1870	Jose Saromines	3/23/2012	5/8/2013
Roe 1872	Sasaki Family Trust 1995	3/23/2012	5/8/2013
Roe 1873	Karen Sauer	3/23/2012	5/8/2013
Roe 1874	Amy Say	3/23/2012	5/8/2013
Roe 1875	William Schad	3/23/2012	5/8/2013
Roe 1876	Alice Schaeffer	3/23/2012	5/8/2013
Roe 1877	Bud Schaeffer	3/23/2012	5/8/2013
Roe 1884	Judith Schlegel	3/23/2012	5/8/2013
Roe 1885	Stephen Schlegel	3/23/2012	5/8/2013
Roe 1887	Hazel Schoepflin	3/23/2012	5/8/2013
Roe 1888	Niel Schoepflin	3/23/2012	5/8/2013
Roe 1891	John Schulte	3/23/2012	5/8/2013
Roe 1892	Philip Schultz	3/23/2012	5/8/2013
Roe 1893	Betty Scidmore	3/23/2012	5/8/2013
Roe 1894	Robert Scott	3/23/2012	5/8/2013
Roe 1895	Patricia Scruggs	3/23/2012	5/8/2013
Roe 1897	Henry Segrove	3/23/2012	5/8/2013

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Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1898	Florence Seibert	3/23/2012	5/8/2013
Roe 1899	Alvin Selnick	3/23/2012	5/8/2013
Roe 1901	Carl Semotan	3/23/2012	5/8/2013
Roe 1903	Ralph Sexton	3/23/2012	5/8/2013
Roe 1904	Eugenia Shadd	3/23/2012	5/8/2013
Roe 1905	William Shannon	3/23/2012	5/8/2013
Roe 1908	Catherine Shearer	3/23/2012	5/8/2013
Roe 1909	Shearer Marital Trust	3/23/2012	5/8/2013
Roe 1911	Earnest Sherman	3/23/2012	5/8/2013
Roe 1912	Hajime Shibuya	3/23/2012	5/8/2013
Roe 1913	Kyoko Shibuya	3/23/2012	5/8/2013
Roe 1914	Lupe Shimabukuro	3/23/2012	5/8/2013
Roe 1915	Rodney Shimabukuro	3/23/2012	5/8/2013
Roe 1916	Yoshiaki Shimizu	3/23/2012	5/8/2013
Roe 1917	Shogo Shimomura	3/23/2012	5/8/2013
Roe 1918	Alves Shiu	3/23/2012	5/8/2013
Roe 1919	Benjamin Shlomi	3/23/2012	5/8/2013
Roe 1920	Behrouz Shokri	3/23/2012	5/8/2013
Roe 1921	Fariba Shokri	3/23/2012	5/8/2013
Roe 1924	Lolita Sicat	3/23/2012	5/8/2013
Roe 1925	Jakob Siccama	3/23/2012	5/8/2013
Roe 1928	Sierra Gateway Resolution LLC	3/23/2012	5/8/2013
Roe 1930	Edward Simon	3/23/2012	5/8/2013
Roe 1932	Gora Singh	3/23/2012	5/8/2013
Roe 1933	Tina Singh	3/23/2012	5/8/2013
Roe 1935	Esther Siville	3/23/2012	5/8/2013
Roe 1936	Siville Family Trust	3/23/2012	5/8/2013
Roe 1937	Charles Skaggs	3/23/2012	5/8/2013
Roe 1938	Rebecca Skaggs	3/23/2012	5/8/2013
Roe 1939	Georgette Skiadas	3/23/2012	5/8/2013
Roe 1941	Charles Skinner	3/23/2012	5/8/2013
Roe 1942	Sharren Skinner	3/23/2012	5/8/2013
Roe 1943	Frank Small	3/23/2012	5/8/2013
Roe 1945	Chong Smith	3/23/2012	5/8/2013
Roe 1946	Jack Smith	3/23/2012	5/8/2013
Roe 1947	James Smith	3/23/2012	5/8/2013
Roe 1948	Larry Smith	3/23/2012	5/8/2013
Roe 1951	Robert Smith	3/23/2012	5/8/2013
Roe 1953	Gary Snyder	3/23/2012	5/8/2013
Roe 1956	Konstantinos Soteropoulos	3/23/2012	5/8/2013
Roe 1957	Juan Soto	3/23/2012	5/8/2013
Roe 1958	James South	3/23/2012	5/8/2013
Roe 1961	Edward Sovich	3/23/2012	5/8/2013
Roe 1963	T Spenard	3/23/2012	5/8/2013
Roe 1964	Francis Sperling	3/23/2012	5/8/2013
Roe 1965	David Sserunkuma	3/23/2012	5/8/2013
Roe 1967	Virginia Stadler	3/23/2012	5/8/2013
Roe 1969	Alan Stenerson	3/23/2012	5/8/2013
Roe 1971	Teresita Sterkel	3/23/2012	5/8/2013
Roe 1973	Nicole Stetson	3/23/2012	5/8/2013
Roe 1975	Stipancic Tr	3/23/2012	5/8/2013
Roe 1976	Brian Stone	3/23/2012	5/8/2013
Roe 1977	Lois Stover	3/23/2012	5/8/2013
Roe 1980	Wilma Stremel	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 1981	Thomas Striegler	3/23/2012	5/8/2013
Roe 1982	Steve Stubner	3/23/2012	5/8/2013
Roe 1983	Guzel Sturm	3/23/2012	5/8/2013
Roe 1987	Jordan Sugarman	3/23/2012	5/8/2013
Roe 1988	Ruth Sugarman	3/23/2012	5/8/2013
Roe 1991	Eugene Summers	3/23/2012	5/8/2013
Roe 1993	Queenie Summers	3/23/2012	5/8/2013
Roe 1995	Frana Sunjka	3/23/2012	5/8/2013
Roe 1996	Joseph Sunjka	3/23/2012	5/8/2013
Roe 1997	Sunlight Townhome LLC	3/23/2012	5/8/2013
Roe 1998	Lenny Supa	3/23/2012	5/8/2013
Roe 2000	Fadia Sweis	3/23/2012	5/8/2013
Roe 2001	Samir Sweis	3/23/2012	5/8/2013
Roe 2002	Ethel Szeto	3/23/2012	5/8/2013
Roe 2003	T L Squared LLC	3/23/2012	5/8/2013
Roe 2005	Takashi Takagi	3/23/2012	5/8/2013
Roe 2006	Reiko Takashita	3/23/2012	5/8/2013
Roe 2008	Grover Talley	3/23/2012	5/8/2013
Roe 2009	Herbert Tam	3/23/2012	5/8/2013
Roe 2010	Cres Tamayo	3/23/2012	5/8/2013
Roe 2011	Macario Tamayo	3/23/2012	5/8/2013
Roe 2012	Corazon Tan	3/23/2012	5/8/2013
Roe 2013	Fidelino Tan	3/23/2012	5/8/2013
Roe 2014	Alice Tanaka	3/23/2012	5/8/2013
Roe 2015	Roy Tanaka	3/23/2012	5/8/2013
Roe 2017	Robin Taniguchi	3/23/2012	3/12/2014
Roe 2018	Chi-Kwang Tao	3/23/2012	3/12/2014
Roe 2019	Ting-Ning Tao	3/23/2012	3/12/2014
Roe 2020	George Tapia	3/23/2012	5/8/2013
Roe 2021	F Taylor	3/23/2012	3/12/2014
Roe 2026	Fumio Teruya	3/23/2012	3/12/2014
Roe 2027	Hisako Teruya	3/23/2012	3/12/2014
Roe 2032	Mary Thompson	3/23/2012	3/12/2014
Roe 2033	William Thompson	3/23/2012	5/8/2013
Roe 2036	Thyra Retzke Family Trust	3/23/2012	3/12/2014
Roe 2037	Ronald Tichauer	3/23/2012	5/8/2013
Roe 2038	Louise Tiendas	3/23/2012	3/12/2014
Roe 2039	Tertius Tiendas	3/23/2012	3/12/2014
Roe 2041	Chiang Ting	3/23/2012	3/12/2014
Roe 2042	Insurance Title	3/23/2012	3/12/2014
Roe 2043	Title Insurance and Trust Company	3/23/2012	3/12/2014
Roe 2044	Lynn Tivens	3/23/2012	3/12/2014
Roe 2045	Arthur Tobin	3/23/2012	3/12/2014
Roe 2046	Hilda Tobin	3/23/2012	3/12/2014
Roe 2047	Today Investment Group LLC	3/23/2012	5/8/2013
Roe 2050	Alice Tomei	3/23/2012	3/12/2014
Roe 2051	Ralph Tomei	3/23/2012	3/12/2014
Roe 2052	Glen Tomkiewicz	3/23/2012	3/12/2014
Roe 2053	Jill Tomkiewicz	3/23/2012	3/12/2014
Roe 2054	Benny Tomlinson	3/23/2012	3/12/2014
Roe 2055	Dalisay Torres	3/23/2012	3/12/2014
Roe 2056	Edilberto Torres	3/23/2012	3/12/2014
Roe 2057	Nerio Torres	3/23/2012	3/12/2014
Roe 2058	Shirley Torres	3/23/2012	3/12/2014

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 2059	Victor Torres	3/23/2012	3/12/2014
Roe 2061	Felipe Tovar	3/23/2012	5/8/2013
Roe 2063	Huynh Tran	3/23/2012	3/12/2014
Roe 2064	Jeannie Tran	3/23/2012	3/12/2014
Roe 2065	Sharon Tremblay	3/23/2012	3/12/2014
Roe 2066	Emma Trochim	3/23/2012	3/12/2014
Roe 2069	Jenny Truong	3/23/2012	3/12/2014
Roe 2071	Liu Fang Tsen	3/23/2012	3/12/2014
Roe 2073	Gail Tsuhako	3/23/2012	3/12/2014
Roe 2074	John Tsuhako	3/23/2012	3/12/2014
Roe 2078	Arthur Ulat	3/23/2012	3/12/2014
Roe 2079	Eldena Ulat	3/23/2012	3/12/2014
Roe 2080	Richard Unfried	3/23/2012	3/12/2014
Roe 2081	Hoa Uong	3/23/2012	3/12/2014
Roe 2083	Leslie Urban	3/23/2012	3/12/2014
Roe 2084	Civ Ushigome	3/23/2012	3/12/2014
Roe 2086	Amelia Uyehara	3/23/2012	3/12/2014
Roe 2087	Eddie Uyehara	3/23/2012	3/12/2014
Roe 2090	Elpidio Valdez	3/23/2012	3/12/2014
Roe 2092	Max Van Runkle	3/23/2012	5/8/2013
Roe 2093	Evangeline Vance	3/23/2012	5/8/2013
Roe 2094	Donna Vandergroen	3/23/2012	5/8/2013
Roe 2095	Ronald Vandergroen	3/23/2012	5/8/2013
Roe 2096	Victor Varela	3/23/2012	5/8/2013
Roe 2097	Danny Vaughn	3/23/2012	5/8/2013
Roe 2098	Gil Velchez	3/23/2012	5/8/2013
Roe 2099	Lolita Velchez	3/23/2012	5/8/2013
Roe 2100	Velur Properties LLC	3/23/2012	5/8/2013
Roe 2101	Venture Industrial LLC	3/23/2012	5/8/2013
Roe 2102	Crispino Vicari	3/23/2012	5/8/2013
Roe 2103	Isaias Vicens	3/23/2012	5/8/2013
Roe 2104	Bertha Villagomez	3/23/2012	5/8/2013
Roe 2105	Jose Villalpando	3/23/2012	5/8/2013
Roe 2106	Norma Villarente	3/23/2012	5/8/2013
Roe 2107	Doris Villegas	3/23/2012	5/8/2013
Roe 2108	Gregario Villegas	3/23/2012	5/8/2013
Roe 2109	Margarita Viloria	3/23/2012	5/8/2013
Roe 2110	Edward Vilt	3/23/2012	5/8/2013
Roe 2111	Rodger Virtue	3/23/2012	5/8/2013
Roe 2112	Danny Visitacion	3/23/2012	5/8/2013
Roe 2113	Sally Visitacion	9/21/2015	10/13/2015
Roe 2117	Richard Vonborcke	3/23/2012	5/8/2013
Roe 2118	Elisa Vondra	3/23/2012	5/8/2013
Roe 2119	James Vondra	3/23/2012	5/8/2013
Roe 2121	Robert Wade	3/23/2012	5/8/2013
Roe 2124	Daniel Walden	3/23/2012	5/8/2013
Roe 2125	Cecil Walker	3/23/2012	5/8/2013
Roe 2126	Grace Walker	3/23/2012	5/8/2013
Roe 2127	Patricia Wallace	3/23/2012	5/8/2013
Roe 2128	William Wallace	3/23/2012	5/8/2013
Roe 2134	Wong Wang	3/23/2012	5/8/2013
Roe 2135	William Warmington	3/23/2012	5/8/2013
Roe 2136	James Warner	3/23/2012	5/8/2013
Roe 2137	Leigh Warner	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 2138	Amy Watson	3/23/2012	5/8/2013
Roe 2139	Elizabeth Weaver	3/23/2012	5/8/2013
Roe 2140	George Webb	3/23/2012	5/8/2013
Roe 2141	Cecilia Wei	3/23/2012	5/8/2013
Roe 2142	Chung Wei	3/23/2012	5/8/2013
Roe 2143	Suhmei Wei	3/23/2012	5/8/2013
Roe 2145	Ival West	3/23/2012	5/8/2013
Roe 2147	Richard Wheaton	3/23/2012	5/8/2013
Roe 2148	Betty White	3/23/2012	5/8/2013
Roe 2149	Edward White	3/23/2012	5/8/2013
Roe 2150	James White	3/23/2012	5/8/2013
Roe 2151	Loretta White	3/23/2012	5/8/2013
Roe 2152	Vivian White	3/23/2012	5/8/2013
Roe 2153	Walt White	3/23/2012	5/8/2013
Roe 2158	Gary Wilcox	3/23/2012	5/8/2013
Roe 2160	Cynthia Williams	3/23/2012	5/8/2013
Roe 2161	Ronlld Williams	3/23/2012	5/8/2013
Roe 2162	Williams Fmly Tr	3/23/2012	5/8/2013
Roe 2164	Donald Wilson	3/23/2012	5/8/2013
Roe 2168	Wilson Family Tr	3/23/2012	5/8/2013
Roe 2169	Donald Winkler	3/23/2012	5/8/2013
Roe 2170	Susan Winkler	3/23/2012	5/8/2013
Roe 2171	Theresa Winters	3/23/2012	5/8/2013
Roe 2172	WKR360-6 LLC	3/23/2012	5/8/2013
Roe 2173	Heatwig Wloczyk	3/23/2012	5/8/2013
Roe 2175	Margaret Wolfe	3/23/2012	5/8/2013
Roe 2176	Otis Wolfe	3/23/2012	5/8/2013
Roe 2177	Gary Wong	3/23/2012	5/8/2013
Roe 2179	Mai Wong	3/23/2012	5/8/2013
Roe 2180	Karen Wonnell	3/23/2012	5/8/2013
Roe 2182	Robert Woodall	3/23/2012	5/8/2013
Roe 2185	Mary Wray	3/23/2012	5/8/2013
Roe 2186	Emiko Wright	3/23/2012	5/8/2013
Roe 2189	Robert Wright	3/23/2012	5/8/2013
Roe 2192	Roobik Yaghoubi	3/23/2012	5/8/2013
Roe 2193	Antonio Yago	3/23/2012	5/8/2013
Roe 2194	Grace Yamada	3/23/2012	5/8/2013
Roe 2195	Maria Yanez	3/23/2012	5/8/2013
Roe 2196	Wendy Yang	3/23/2012	5/8/2013
Roe 2197	Joseph Yankovich	3/23/2012	5/8/2013
Roe 2198	Monica Yeomans	3/23/2012	5/8/2013
Roe 2199	Tammy Yin	3/23/2012	5/8/2013
Roe 2201	Barney Yoshino	3/23/2012	5/8/2013
Roe 2202	Carlos Young	3/23/2012	5/8/2013
Roe 2203	Julie Young	3/23/2012	5/8/2013
Roe 2204	Kim Young	3/23/2012	5/8/2013
Roe 2205	Bob Yu	3/23/2012	5/8/2013
Roe 2206	Kyu Yu	3/23/2012	5/8/2013
Roe 2207	Brian Yung	3/23/2012	5/8/2013
Roe 2210	Coral Zedicher	3/23/2012	5/8/2013
Roe 2211	Donald Zedicher	3/23/2012	5/8/2013
Roe 2212	Hao Zhan	3/23/2012	5/8/2013
Roe 2213	Stanley Zimmerman	3/23/2012	5/8/2013
Roe 2214	Milton Zucker	3/23/2012	5/8/2013

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 2215	Natalie Zucker	3/23/2012	5/8/2013
Roe 2218	Charlotte Zwinger	3/23/2012	5/8/2013
Roe 2219	Mark McNerney	3/23/2012	5/8/2013
Roe 2221	Jon Safranek	3/23/2012	5/8/2013
Roe 2224	Robert Jones	3/23/2012	5/8/2013
Roe 2225	James Jones	3/23/2012	5/8/2013
Roe 2226	Adriana Balderra	3/23/2012	5/8/2013
Roe 2231	Donald Johnson	3/23/2012	5/8/2013
Roe 2232	Richard Peters	3/23/2012	5/8/2013
Roe 2239	Sam Sarieddine	3/23/2012	5/8/2013
Roe 2240	Mitchell Truesdale	3/23/2012	5/8/2013
Roe 2241	Keith Calhoun	3/23/2012	5/8/2013
Roe 2242	Barbara Schultz	3/23/2012	5/8/2013
Roe 2243	Bruce Sylvies	3/23/2012	5/8/2013
Roe 2244	Philip Schultz	3/23/2012	5/8/2013
Roe 2245	Dralle	3/23/2012	5/8/2013
Roe 2248	Alba Castillo	3/23/2012	5/8/2013
Roe 2249	Selton Phillips	3/23/2012	5/8/2013
Roe 2250	Moises Merestela	3/23/2012	5/8/2013
Roe 2251	Diana Burke	3/23/2012	5/8/2013
Roe 2253	Stanley Vong	3/23/2012	5/8/2013
Roe 2254	Larry Wilborn	3/23/2012	5/8/2013
Roe 2255	Michie Wilborn	3/23/2012	5/8/2013
Roe 2256	John Lazarus	3/23/2012	5/8/2013
Roe 2257	Lambartha Vandenberg Tr	3/23/2012	5/8/2013
Roe 2260	George Sack	3/23/2012	5/8/2013
Roe 2261	Palmdale Mobile Frank LLC	3/23/2012	5/8/2013
Roe 2265	John Griffin	3/23/2012	5/8/2013
Roe 2267	Porter Sprolls	3/23/2012	5/8/2013
Roe 2268	Albert Gaba	3/23/2012	5/8/2013
Roe 2269	Delia Gaba	3/23/2012	5/8/2013
Roe 2270	Audrey Sprolls	3/23/2012	5/8/2013
Roe 2272	Francisco Batino	3/23/2012	5/8/2013
Roe 2274	Bar Or Carmit	3/23/2012	5/8/2013
Roe 2275	Joseph Kinkoopf	3/23/2012	5/8/2013
Roe 2276	Tina Kinkoopf	3/23/2012	5/8/2013
Roe 2277	Jerry F. Shotbolt / Shotbolt Family Trust	3/23/2012	5/8/2013
Roe 2279	Benjamin C Both	3/23/2012	5/8/2013
Roe 2280	Christina D Both	3/23/2012	5/8/2013
Roe 2283	Manuel Ariliano	3/23/2012	5/8/2013
Roe 2284	Leodegaria A Ariliano	3/23/2012	5/8/2013
Roe 2285	Sandra Pastor	3/23/2012	5/8/2013
Roe 2286	Erik R. Hermann / Hermann Trust	3/23/2012	5/8/2013
Roe 2287	Julia A Hermann / Hermann Trust	3/23/2012	5/8/2013
Roe 2288	Albert T Rodriguez	3/23/2012	5/8/2013
Roe 2289	Edelmira B Rodriguez	3/23/2012	5/8/2013
Roe 2292	Juan A Valenzuela	3/23/2012	5/8/2013
Roe 2294	Vicki Atkins / Atkins Trust	3/23/2012	5/8/2013
Roe 2295	Stephen D Wahl	3/23/2012	5/8/2013
Roe 2296	Mettler Valley Mutual Water Co.	3/23/2012	5/8/2013
Roe 2302	John P. Starros	8/11/2015	8/21/2015
Roe 2305	Frank A. Small	8/11/2015	8/21/2015
Roe 2316	Joshua Acres Mutual Water Company	8/11/2015	8/21/2015
Roe 2318	40th St Mutual Water Company	2/17/2015	4/1/2015

DEFAULTS ENTERED

Doe/Roe No.	Name of Roe Cross-Defendant	Default Entered	Default Posted
Roe 2323	Lucky 18 on Rosamond, LLC	2/17/2015	4/1/2015

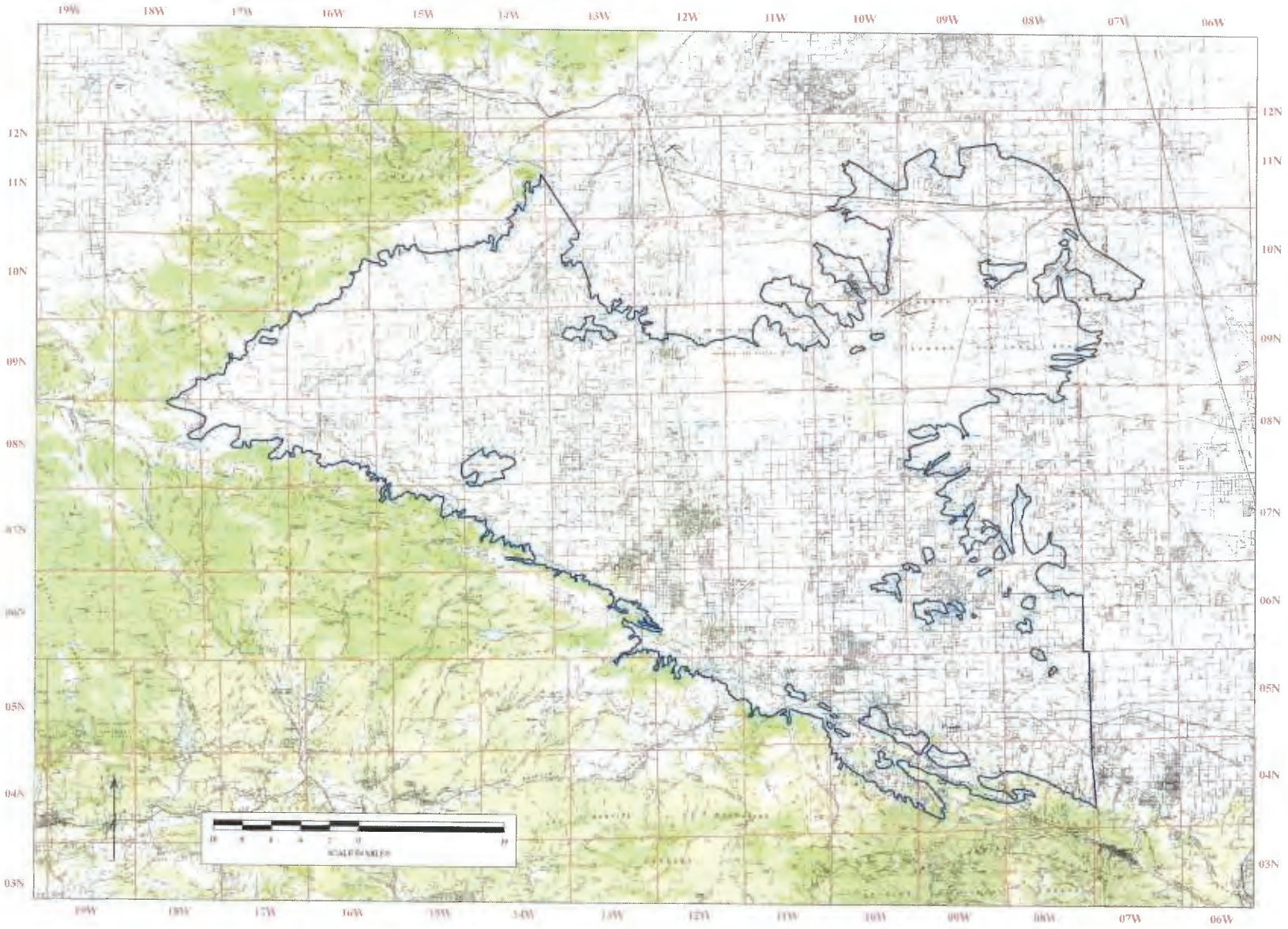


EXHIBIT 2

Jurisdictional Boundary
Antelope Valley Groundwater Adjudication

Producer Name	Non-Overlying Production Rights (in Acre-Feet)	Percentage Share of Adjusted Native Safe Yield
Los Angeles County Waterworks District No. 40	6,789.26	9.605%
Palmdale Water District	2,769.63	3.918%
Little Rock Creek Irrigation District	796.58	1.127%
Quartz Hill Water District	563.73	0.798%
Rosamond Community Services District	404.42	0.572%
Palm Ranch Irrigation District	465.69	0.659%
Desert Lake Community Services District	73.53	0.104%
California Water Service Company	343.14	0.485%
North Edwards Water District	49.02	0.069%
Boron Community Services District	50.00	0.071%
West Valley County Water District	40.00	0.057%
Total Acre Feet:	**12,345.00**	

EXHIBIT 3

Judicial Council Coordination
Proceeding No. 4408
Santa Clara Case No.: 1-05-CV-049053

Producer Name	Pre-Rampdown Production	Overlying Production Rights	Percentage Share of Adjusted Native Safe Yield
60th Street Association Water System	2.16	2.16	0.003%
Adams Bennett Investments, LLC	0.00	0.00	0.000%
Antelope Park Mutual Water Company	208.75	169.89	0.240%
Antelope Valley Joint Union High School District	71.74	41.00	0.058%
Antelope Valley Mobile Estates	19.88	8.75	0.012%
Antelope Valley Water Storage LLC	1772.00	1772.00	2.507%
Aqua-J Mutual Water Company	44.90	44.35	0.063%
AV Solar Ranch 1, LLC	96.00	96.00	0.136%
AVEK	4000.00	3550.00	5.022%
Averydale Mutual Water Company	257.95	254.35	0.360%
Gene Bahlman	5.25	5.00	0.007%
Baxter Mutual Water Company	44.75	35.02	0.050%
Mark W. and Nancy L. Benz	1.00	1.00	0.001%
Big Rock Mutual Water Company	0.00	0.00	0.000%
Bleich Flat Mutual Water Company	33.50	33.50	0.047%
Sheldon R. Blum, Trustee of the 1998 Sheldon R. Blum Family Trust	50.00	50.00	0.071%
Bolthouse Properties LLC	16805.89	9945.00	14.069%
Thomas and Julie Bookman 2007 Trust	272.50	136.00	0.192%
James and Elizabeth Bridwell	1.00	1.00	0.001%
Brittner Trust, Glen Brittner, Trustee	4.00	4.00	0.006%
Burrows/300 A40 H LLC	295.00	295.00	0.417%
John A. Calandri; Calandri Water Company, LLC; John A. Calandri and Shannon C. Calandri as cotrustees of “The John and Shannon Calandri 1992 Trust”; Katherine J. Calandri Nelson, Trustee of "The Katherine J. Calandri Nelson 2008 Trust”	3803.00	1776.00	2.512%
Sal and Connie Cardile	1.00	1.00	0.001%
Irma Ann Carle Trust, Irma-Anne Carle, Trustee	1.00	1.00	0.001%
Effren Chavez	44.00	44.00	0.062%
C. Louise R. Close Living Trust	1.00	1.00	0.001%
Colorado Mutual Water Co.	25.90	25.54	0.036%
Copa De Oro Land Company	325.00	325.00	0.460%
County Sanitation Districts of Los Angeles #14 and 20	8000.00	3400.00	4.810%
Del Sur Ranch LLC	600.00	600.00	0.849%
Diamond Farming Co. LLC/Crystal Organic LLC/Grimmway/Lapis	3354.00	1986.00	2.810%
Randall and Billie Dickey	1.00	1.00	0.001%
El Dorado Mutual Water Company	276.05	272.16	0.385%
eSolar Inc.; Red Dawn Suntower LLC	150.00	150.00	0.212%
eSolar, Inc.; Sierra Sun Tower, LLC	5.76	3.00	0.004%
eSolar Inc.; Tumbleweed Suntower LLC	0.00	0.00	0.000%
Lawrence Dean Evans, Jr. and Susan Evans	1.00	1.00	0.001%

Producer Name	Pre-Rampdown Production	Overlying Production Rights	Percentage Share of Adjusted Native Safe Yield
Evergreen Mutual Water Company	69.50	68.54	0.097%
Ruth C. Findley	1.00	1.00	0.001%
First Mutual Water Company	15.62	5.25	0.007%
Leah Frankenberg	1.00	1.00	0.001%
Denise Godde, Steven F. Godde, Pamela M. Godde and Gary M. Godde; Denise Godde and Steven Godde as Trustees of the D & S Godde Trust	1461.50	683.00	0.966%
Gorrindo Resourceful LLC	629.00	629.00	0.890%
Granite Construction Company (Big Rock Facility)	126.00	126.00	0.178%
Granite Construction Company (Little Rock Sand and Gravel, Inc.)	400.00	234.00	0.331%
LAURA GRIFFIN, trustee of the FAMILY BYPASS TRUST created under the LEONARD W. GRIFFIN AND LAURA GRIFFIN TRUST, dated July 9, 1993	1170.00	668.00	0.945%
H & N Development Co. West Inc.	1799.75	808.00	1.143%
Jane Healy and Healy Enterprises Inc.	700.00	700.00	0.990%
Gailen W. Kyle and Julie Kyle, Trustees of The Kyle Revocable Living Trust	9275.00	3670.00	5.192%
Land Projects Mutual Water Co.	622.50	613.54	0.868%
Landale Mutual Water Co.	157.75	155.57	0.220%
Landinv Inc	2000.00	969.00	1.371%
Lands of Promise Mutual Water Company	64.61	21.69	0.031%
G. Lane Family (Frank and Yvonne Lane 1993 Family Trust, Little Rock Sand and Gravel, Inc., George and Charlene Lane Family Trust) [Does not include water pumped on land leased to Granite Construction]	1402.00	773.00	1.094%
James M. Leer, III and Diana Leer	1.00	1.00	0.001%
Littlerock Aggregate Co., Inc., Holliday Rock Co., Inc.	405.00	151.00	0.214%
Llano Del Rio Water Company	572.65	279.00	0.395%
Llano Mutual Water Company	0.00	0.00	0.000%
City of Los Angeles, Department of Airports	7851.00	3975.00	5.623%
Jose M. Maritorena & Marie P. Maritorena, Trustees of the Maritorena Living Trust Dated March 16, 1993	3800.55	1775.00	2.511%
Dennis M. and Diane K. McWilliams	1.00	1.00	0.001%
Richard Miner	1089.40	999.00	1.413%
Miracle Improvement Corporation dba Golden Sands Mobile Home Park dba Golden Sands Trailer Park	45.40	27.00	0.038%
Barry and Sharon Munz 2014 Revocable Trust, Terry A. & Kathleen M. Munz	5.00	5.00	0.007%
Eugene B. Nebeker	4016.00	1775.00	2.511%

Producer Name	Pre-Rampdown Production	Overlying Production Rights	Percentage Share of Adjusted Native Safe Yield
Richard Nelson, Willow Springs Co.	180.65	135.00	0.191%
Northrop Grumman Systems Corporation	2.00	2.00	0.003%
NRG Solar Alpine, LLC	64.21	38.00	0.054%
R AND M RANCH, INC.	1458.00	686.00	0.970%
John and Adrienne Reca	501.45	251.00	0.355%
Suzanne J. Richter	1.00	1.00	0.001%
Rosamond High School	586.40	202.23	0.286%
Rosamond Ranch, LP	598.00	598.00	0.846%
Rose Villa Apartments	22.72	7.62	0.011%
Sahara Nursery and Farm	22.18	22.00	0.031%
Saint Andrew's Abbey, Inc.	175.00	102.00	0.144%
Lawrence J. Schilling and Mary P. Schilling, Trustees of the L&M Schilling 1992 Family Trust	4.00	4.00	0.006%
Lilia Mabel Selak, TTEE; Barbara Aznarez Decd Trust and Selak, Mabel Trust	150.00	150.00	0.212%
Service Rock Products, L.P.	503.00	267.00	0.378%
SGS Antelope Valley Development, LLC	57.00	57.00	0.081%
Shadow Acres Mutual Water Company	52.60	51.74	0.073%
Sheep Creek Water Co.	0.00	0.00	0.000%
Jeffrey and Nancee Siebert	200.00	106.00	0.150%
Sonrise Ranch, LLC	662.00	0.00	0.000%
Southern California Edison Company	17.75	8.00	0.011%
Sundale Mutual Water Company	472.23	472.23	0.668%
Sunnyside Farms Mutual Water Company, Inc.	75.40	74.26	0.105%
Tejon Ranchcorp and Tejon Ranch Co.	3414.00	1634.00	2.312%
Tierra Bonita Mutual Water Company	40.75	40.32	0.057%
Tierra Bonita Ranch	505.00	430.00	0.608%
Triple M Property Co.	15.00	15.00	0.021%
Turk Trust dated December 16, 1998	1.00	1.00	0.001%
Marie A. Unini and Robert J. LeClair	1.00	1.00	0.001%
U.S. Borax	1905.00	1905.00	2.695%
Craig Van Dam, Marta Van Dam, Nick Van Dam, Janet Van Dam	1037.00	640.00	0.905%
Gary Van Dam, Gertrude Van Dam, Delmar Van Dam, Delmar D. Van Dam and Gertrude J. Van Dam, as Trustees of the Delmar D. and Gertrude J. Van Dam Family Trust – 1996, Craig Van Dam, Marta Van Dam, High Desert Dairy Partnership, High Desert Dairy	9931.50	3215.00	4.548%
Vulcan Materials Co., Vulcan Lands Inc., Consolidated Rock Products Co., Calmat Land Co., and allied Concrete & Materials	519.10	260.00	0.368%
WAGAS Land Company LLC	984.15	580.00	0.821%
WDS California II, LLC	2397.00	1159.00	1.640%
Michael and Dolores A. Weatherbie	1.00	1.00	0.001%

Producer Name	Pre-Rampdown Production	Overlying Production Rights	Percentage Share of Adjusted Native Safe Yield
West Side Park Mutual Water Co.	280.75	276.86	0.392%
White Fence Farms Mutual Water Co.	783.05	772.13	1.092%
Donna Wilson	10.00	7.00	0.010%
William Fisher Memorial Water Company	4.53	4.53	0.006%
Totals	**105878.08**	**58322.23**	

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Los Angeles Superior Court

JUL 18 2011

John A. Clarke, Executive Officer/Clerk

By _____, Deputy
RAUL SANCHEZ

SUPERIOR COURT OF CALIFORNIA

COUNTY OF LOS ANGELES

ANTELOPE VALLEY GROUNDWATER CASES

Included Consolidated Actions:

Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.
Superior Court of California
County of Los Angeles, Case No. BC 325 201

Los Angeles County Waterworks District No. 40 v. Diamond Farming Co.
Superior Court of California, County of Kern, Case No. S-1500-CV-254-348

Wm. Bolthouse Farms, Inc. v. City of Lancaster
Diamond Farming Co. v. City of Lancaster
Diamond Farming Co. v. Palmdale Water Dist.
Superior Court of California, County of Riverside, consolidated actions, Case Nos. RIC 353 840, RIC 344 436, RIC 344 668

Rebecca Lee Willis v. Los Angeles County Waterworks District No. 40
Superior Court of California, County of Los Angeles, Case No. BC 364 553

Richard A. Wood v. Los Angeles County Waterworks District No. 40
Superior Court of California, County of Los

Judicial Council Coordination Proceeding No. 4408

Lead Case No. BC 325 201

STATEMENT OF DECISION PHASE THREE TRIAL

Judge: Honorable Jack Komar

Angeles, Case No. BC 391 869

The standard for a statement of decision as set forth in Code of Civil Procedure section 632 requires a court to explain ". . . the legal and factual basis for its decision as to each of the principal controverted issues at trial...." Case law is clear that a court must provide the factual and legal basis for the decision on those issues only closely related to the ultimate issues on the case. (See *People v. Casa Blanca Convalescent Homes* (1984) 159 Cal. App. 3d 509, 523-524.) It is also clear that a court need not respond to requests that are in the nature of "interrogatories." (See *id.* at pp. 525-526.)

The only issues at this phase of the trial were simply to determine whether the adjudication area aquifer is in a current state of overdraft and as part of that adjudication to determine the safe yield. This Statement of Decision focuses solely on those issues.

Cross-complainants Los Angeles County Waterworks District No. 40, City of Palmdale, Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company, Rosamond Community Service District, Phelan Piñon Hills Community Services District, Desert Lake Community Services District, North Edwards Water District (collectively, the "Public Water Producers")[1] brought an action for, *inter alia*, declaratory relief, alleging that the Antelope Valley adjudication area groundwater aquifer was in a state of overdraft and required judicial intervention to provide for management of the water resources within the aquifer to prevent depletion of the aquifer and damage to the Antelope Valley basin.

Several of the cross-defendant parties (collectively, the "Land Owner Group") also sought declaratory relief in their various independent (now coordinated and consolidated) actions.

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[1] The United States and the City of Los Angeles, though not water suppliers in the Antelope Valley adjudication area, joined with the Public Water Producers. Rosamond Community Services District joined with the Land Owner Group.

1-05-CV-049053
Judgment and Physical Solution

EXHIBIT 5

The first issues to be decided in the declaratory relief cause of action are the issues of overdraft and safe yield. The remaining causes of action and issues are to be tried in a subsequent phase or phases.

This Phase Three trial commenced on January 4, 2011 and continued thereafter on various days based upon the needs of the various parties and the Court's availability. Appearances of counsel are noted in the minutes of the Court.

At the conclusion of the evidence, the Court offered counsel the opportunity to provide written final arguments and the invitation was declined by all counsel. On April 13, 2011, the Court heard oral argument and the matter was ordered submitted.

The Public Water Producers (and others) have alleged that the basin is in a condition of overdraft and have requested that the Court determine a safe yield and consider imposition of a physical solution or other remedy to prevent further depletion of the water resource and degradation of the condition of the aquifer.

Several parties in opposition to the request of the Public Water Producers have contended that while there may have been overdraft in the past, currently the aquifer has recovered and is not in overdraft. These same parties contend that it is not possible to establish a single value for safe yield; instead they have requested that the Court determine a range of values for safe yield.

The Court concludes that the Public Water Producers have the burden of proof and that the burden must be satisfied for this phase and purpose by a preponderance of the evidence. This burden of proof may or may not be appropriate to other phases of this trial. And since the findings here have no application to other phases, such as prescription or rights of appropriators, and the parties have not briefed those or other issues, the Court makes no conclusions as to what standard of proof might be applicable to such other issues or phases of trial.

The law defines overdraft as extractions in excess of the "safe yield" of water from an aquifer, which over time will lead to a depletion of the water supply within a groundwater basin as well as other detrimental effects, if the imbalance between pumping and extraction continues. (*City of Los Angeles v. City of San Fernando* (1975) 14 Cal. 3d 199; *City of*

Pasadena v. City of Alhambra (1949) 33 Cal. 2d 908, 929; *Orange County Water District v. City of Riverside* (1959) 173 Cal. App. 2d 137.) "Safe yield" is the amount of annual extractions of water from the aquifer over time equal to the amount of water needed to recharge the groundwater aquifer and maintain it in equilibrium, plus any temporary surplus. Temporary surplus is defined as that amount of water that may be pumped from an aquifer to make room to store future water that would otherwise be wasted and unavailable for use.

Determination of safe yield and overdraft requires the expert opinions of hydrologists and geologists.[2] Experts in the field of hydrogeology routinely base their opinions and conclusions concerning groundwater basin overdraft on evidence of long-term lowering of groundwater levels, loss of groundwater storage, declining water quality, seawater intrusion (not an issue in this case), land subsidence, and the like. Experts also conduct a sophisticated analysis of precipitation and its runoff, stream flow, and infiltration into the aquifer, including such things as evapotranspiration, water from other sources introduced into the aquifer (artificial recharge), as well as the nature and quantity of extractions from the aquifer and return flows therefrom.

Generally, neither overdraft nor safe yield can be determined by looking at a groundwater basin in a single year but must be determined by evaluating the basin conditions over a sufficient period of time to determine whether pumping rates have or will lead to eventual permanent lowering of the water level in the aquifer and ultimately depletion of the water supply or other harm. Recharge must equal discharge over the long term. (*City of Los Angeles v. City of San Fernando, supra*, 14 Cal. 3rd at pp. 278-279.) But having heard evidence about the aquifer as a whole, the Court is not making historical findings that would be applicable to specific areas of the aquifer or that could be used in a specific way to determine water rights in particular areas of the aquifer.

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[2] All the experts offer estimates. The American Heritage College Dictionary, Third Edition, defines an "estimate" as, *inter alia*, "[a] rough calculation, as of size" or "[a] judgment based on one's impressions; an opinion."

The location of the Antelope Valley adjudication area boundaries was the subject of the Phase One and Two trials in this matter. The Court defined the boundaries of the valley aquifer based upon evidence of hydro-connection within the aquifer. If there was no hydro-connectivity with the aquifer, an area was excluded from the adjudication. The degree of hydro-connectivity within the Antelope Valley adjudication area varies from area to area. Some areas seemingly have fairly small or nominal hydro-connectivity but must be included in this phase of the adjudication unless the connection is *de minimis*.[3] Pumping in those parts of the aquifer may be shown to have *de minimis* effect on other parts of the aquifer while pumping in other areas within the basin appear to have material impacts on adjacent parts of the basin. All areas were included within the adjudication area because they all have some level of hydro-connection, some more and some less. How to deal with those differences is ultimately a basin management decision that is well beyond the scope of this phase of trial.

Overdraft

The preponderance of the evidence presented establishes that the adjudication area aquifer is in a state of overdraft. Reliable estimates of the long-term extractions from the basin have exceeded reliable estimates of the basin's recharge by significant margins, and empirical evidence of overdraft in the basin corroborates that conclusion. Portions of the aquifer have sustained a significant loss of groundwater storage since 1951. While pumping in recent years has reduced and moderated, the margin between pumping and recharge as cultural conditions have changed and precipitation has increased (with the appearance of wetter parts of the historical cycle), pumping in some areas of the aquifer is continuing to cause harm to the basin. The evidence is persuasive that current extractions exceed recharge and therefore that the basin is

[3] The court may exclude truly de minimis connectivity areas based upon evidence in later phases of the trial if shown to have virtually no impact on the aquifer.

in a state of overdraft. Since 1951[4] there is evidence of periods of substantial pumping (principally agricultural in the early years of the period) coinciding with periods of drought, with almost continuous lowering of water levels and severe subsidence in some areas extending to the present time, with intervals of slight rises in water levels in some areas.

Areas of increased pumping, with concomitant lowering of water levels, can have a serious effect on water rights in other areas, caused by cones of depression, which alter natural water flow gradients, causing the lowering of water levels in adjacent areas, with resulting subsidence and loss of aquifer storage capacity. Given population growth, and agricultural and industrial changes, the valley is at risk of being in an even more serious continuing overdraft in the future unless pumping is controlled.

While the lowering of current water levels has slowed, and some levels in wells in some areas have risen in recent years, significant areas within the aquifer continue to show declining levels, some slightly so, but many with material lowering of water levels.

Thus, the Antelope Valley adjudication area is in a state of overdraft based on estimates of extraction and recharge, corroborated by physical evidence of conditions in the basin, and while the annual amount of overdraft has lessened in recent years with increased precipitation and recharge, the effects of overdraft remain and are in danger of being exacerbated with increased pumping and the prospective cyclical precipitation fluctuations shown by the historical record. The physical evidence establishes that there was significant subsidence occurring in parts of the adjudication area ranging from two to six feet or more in certain areas of the valley caused by such pumping and that measurable water levels fell in a substantial part of the valley. While some of the ongoing subsidence may be attributable to residual subsidence (from earlier periods of shortfall) that would not seem to be an explanation for the extent of continued subsidence. The evidence establishes that ground water extractions in excess of recharge are a cause as well.

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[4] Precipitation and well records prior to that year are too sketchy to be relied upon.

Safe Yield

A calculation of safe yield is necessary to manage the basin or create a physical solution to a potential or actual continuing overdraft. A determination of safe yield requires an initial determination of average annual natural or native recharge to the aquifer from all sources. The only source of natural or native recharge for the Antelope Valley is precipitation that recharges the aquifer and it is therefore necessary to ascertain average annual precipitation. The calculation of annual average precipitation can only be determined by using a baseline study period that covers precipitation in periods of drought and periods of abundant precipitation over a sufficient period of time that a reliable estimate of average future recharge based on precipitation can be made.

It has been suggested that safe yield could be based on using shorter base periods or more than one base period, (the total time span of which was considerably less than the 50 year period the Court believes is more credible). If the purpose of selecting a base period is to determine average recharge over time based on precipitation, choosing two consecutive periods of time with two different average numbers would not serve that purpose and would preclude estimating a single safe yield. Likewise, selecting a base period that does not have completely representative precipitation cycles over time would not provide an accurate evaluation of conditions in the valley. A base period that calculates average precipitation over a representative period of time permits reliable predictions about future natural recharge based on regular recurring precipitation cycles. A period of precipitation fluctuations from 1951 to 2005 satisfies that standard. Shorter periods do not.

The Court finds that current extraction of water from the aquifer by all pumping ranges from 130,000 to 150,000 acre feet a year, but in any event, is in excess of average annual recharge. The major area of dispute between the parties is the average amount of natural recharge, which also involves disputes concerning return flows, the amount of native vegetation water needs, evapotranspiration, stream flow, runoff, groundwater infiltration, specific yield, lag

time, bedrock infiltration, agricultural crop needs, and the like. Other sources of recharge to the basin, including artificial recharge-water pumped into the aquifer from external sources are not in dispute.

Evidence established that during the entire historical period presented, populations increased within the valley and water use changed in a variety of ways. There has been a shift in some areas to urban uses and away from agriculture although in recent years agricultural pumping has also increased. The nature of agricultural duties has changed as well. The type of irrigation used by farmers has become more efficient and less water is needed per acre (depending on the crops grown) with more efficient uses of water. But there has also been an increase as well as a change in the nature of the type of agriculture in the valley in material quantities in recent years. More of such changes may occur and it is important to both current and future generations to ensure that the water resources within the basin are managed prudently.

The Court heard from a very large number of experts, some of whom have provided opinion testimony of what constitutes safe yield. All the experts testifying acknowledged that changes in the selection of a base study period, lag time, agricultural water duties, evapotranspiration, specific yield, runoff quantities, well level contours, bedrock infiltration, return flows, playa evaporation relating to run off and bedrock infiltration, chloride measurements, satellite imaging, and agricultural and municipal pumping estimates, among others, would affect the ultimate opinion of natural recharge and return flows.

The opinions of all the experts are estimates, based upon their professional opinion. All of the opinions were critiqued by other experts who often had different opinions. The Court recognizes the imprecision of the various estimates and the fact that an estimate by definition is imprecise. But the fact that estimates lack precision does not mean that the Court cannot rely upon such estimates. The scientific community relies upon such estimates in the field of hydrogeology and the Court must do the same.

Reasonable experts can differ as to reasonable estimates of natural recharge and virtually all other components of water budgets, computations of change of storage, and the

like, all the while using the same formulae and scientific principles to reach their conclusion. For example, all the experts could agree on the definition of "Darcy's Law" and the physics principle of "conservation of mass" but still reach different conclusions.

Some of the experts opined that the basin was not in overdraft and that recharge was in excess of or in balance with extractions so that there was a surplus in the aquifer. One expert opined that loss of storage was merely space for temporary storage. Observable conditions in the valley are inconsistent with those conclusions. If there were a surplus, even in the shortened base periods used by the some experts, there should not be subsidence of land, nor the need to drill for water at deeper and deeper levels in those parts of the aquifer most affected by the overdraft. The physical condition of the valley is inconsistent with those estimates that there is and has been a surplus of water in the aquifer.

The selection of a safe yield number for an aquifer the size of the Antelope Valley is made difficult because of not only its size but because of the complexity of its geology. As reflected above, hydro-connectivity and conductivity varies considerably between various parts of the aquifer. The hydro-connectivity between some portions of the adjudication area aquifer and others is so slight as to be almost (apparently) nonexistent. Pumping in those areas may have little or no effect on other areas of the aquifer. The Antelope Valley basin is not like a bathtub where lowering and raising of water levels is equal in all parts of the "tub."

Therefore, assigning a safe yield number (what quantity of pumping from the basin will maintain equilibrium in the aquifer) may require different numbers for different parts of the aquifer (and clearly may also provide for some level of separate management). No attempt has been made in this phase of trial to define geological differences in the valley that would justify different safe yield numbers for different parts of the valley in light of the decision in Phase Two regarding connectivity (the Phase Two trial focused on hydro-connectivity for purposes of determining necessary parties to the action).

Weighing the various opinions of the experts, however, the Court finds by a preponderance of the evidence that conservatively setting a safe yield at 110,000 acre feet a

1-05-CV-049053
Judgment and Physical Solution
EXHIBIT 5

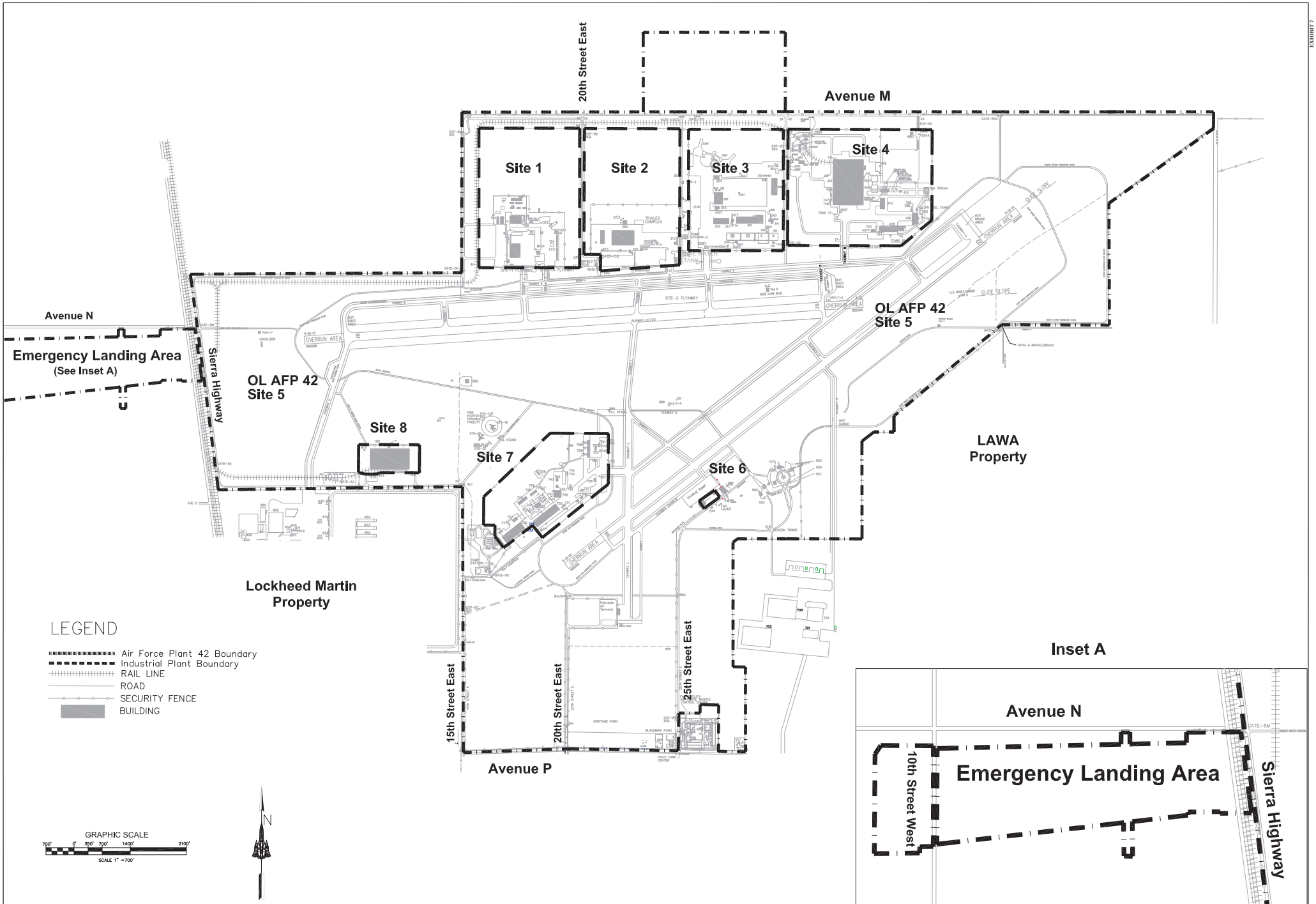
year will permit management of the valley in such a way as to preserve the rights of all parties in accordance with the Constitution and laws of the State of California. Some portions of the aquifer receive more recharge than others and pumping requirements vary. These differences require management decisions that respect the differences in both the geology and the cultural needs of the diverse parts of the valley.

It should not be assumed that the safe yield management number may not change as climate circumstances and pumping may change, or as the empirical evidence based on experience in managing the basin suggests it is either too high or too low.

Dated: JUL 13 2011

Hon. Jack Komar
Judge of the Superior Court

T 11 N
T 10 N
T 9 N
T 8 N
R 12 W
R 11 W
R 10 W
R 9 W
R 8 W
R 7 W
R 6 W
N
SCHEMATIC
NOT TO SCALE; BAR SCALE BELOW IS APPROXIMATE ONLY.
0 3 6 9 12
SCALE IN MILES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, SOUTH PACIFIC DIVISION
LOS ANGELES DISTRICT REAL ESTATE DIVISION
EDWARDS AIR FORCE BASE
LOS ANGELES, KERN & SAN BERNARDINO COUNTIES, CA.
BASE BOUNDARY (PERIMETER) DIAGRAM
9 JUNE 2000
DWG 273-M-PER



PRODUCTION FLIGHT TEST INSTALLATION

UNITED STATES AIR FORCE PLANT NO. 42

PALMDALE CALIFORNIA

1941 to 2011

OPERATIONS + MAINTENANCE AF PLANT 42 PALMDALE , CALIFORNIA

MARK	DATE	DESCRIPTION	BY
REVISIONS			

MARK	DATE	DESCRIPTION	BY
REVISIONS			

PREPARED BY:
U.S. AIR FORCE, PLANT 42

PREPARED FOR:
AIR FORCE PLANT 42,
OPERATIONS AND MAINTENANCE MANAGER

APPROVED BY:
CHIEF ENGINEER, AF PLANT 42

DRAWING NO. P42XXXXX-101

AIR FORCE PLANT 42
2301 E. AVENUE P
PALMDALE, CALIFORNIA 93550
(661) 272-6628 - FAX 272-6635

Integrity First, Service Before Self, and Excellence in All We Do

Air Force Plant 42
Installation Layout

DESIGNED	TRACED	JOB NO.
		420
DRAWN	CHECKED	DATE
		27 May 14

P4210242-101 SHEET 1 OF 1

EXHIBIT 7

1:05-CV-0680R3
Judgment and Physical Solution

Rights to Produce Imported Water Return Flows

A.V. MATERIALS, INC.

ANTELOPE VALLEY COUNTRY CLUB

ANTELOPE VALLEY EAST-KERN WATER AGENCY

ANTELOPE VALLEY WATER COMPANY

ANTELOPE VALLEY WATER STORAGE, LLC

BORON COMMUNITY SERVICES DISTRICT

CALIFORNIA DEPARTMENT OF PARKS

CALIFORNIA WATER SERVICE COMPANY

COPA DE ORO LAND COMPANY, A CALIFORNIA GENERAL PARTNERSHIP

CRYSTAL ORGANIC FARMS, LLC

DESERT LAKE COMMUNITY SERVICES DISTRICT

DIAMOND FARMING COMPANY

EDGEMONT ACRES MWC

EL DORADO MUTUAL WATER COMPANY

EYHERABIDE, RAY/EYHERABIDE SHEEP CO.

GEORGE LANE, AS TRUSTEE OF THE GEORGE AND CHARLENE LANE

FAMILY TRUST, DATED 12/19/2007

GOODE, FORREST G. 1998 TRUST

GRANITE CONSTRUCTION COMPANY

GRIMMWAY ENTERPRISES, INC.

H & N DEVELOPMENT CO. WEST

HARTER, SCOTT

LANDALE MUTUAL WATER CO.

LITTLEROCK CREEK IRRIGATION DISTRICT

LITTLEROCK SAND AND GRAVEL, INC.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40

PALMDALE WATER DISTRICT

PALM RANCH IRRIGATION DISTRICT

QUARTZ HILL WATER DISTRICT

ROSAMOND COMMUNITY SERVICES DISTRICT

SAINT ANDREW'S ABBEY, INC.

SHADOW ACRES MUTUAL WATER COMPANY.

SUNNYSIDE FARMS MUTUAL WATER COMPANY, INC.

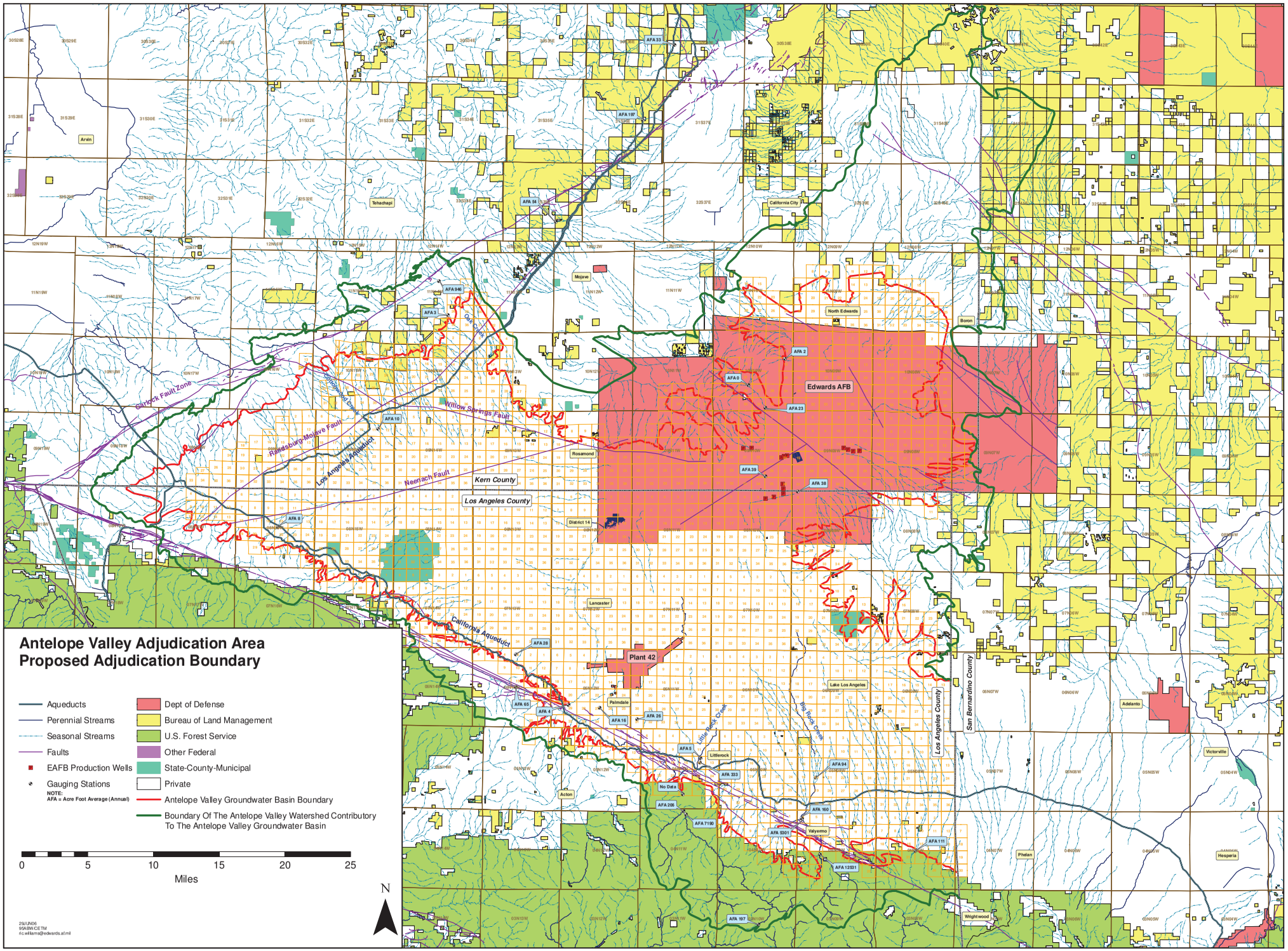
TEJON RANCHCORP/TEJON RANCH CO.

U.S. BORAX & CHEMICAL CO.

WARNACK, A.C. AS TRUSTEE OF THE A.C. WARNACK TRUST

WEST SIDE PARK MUTUAL WATER CO.

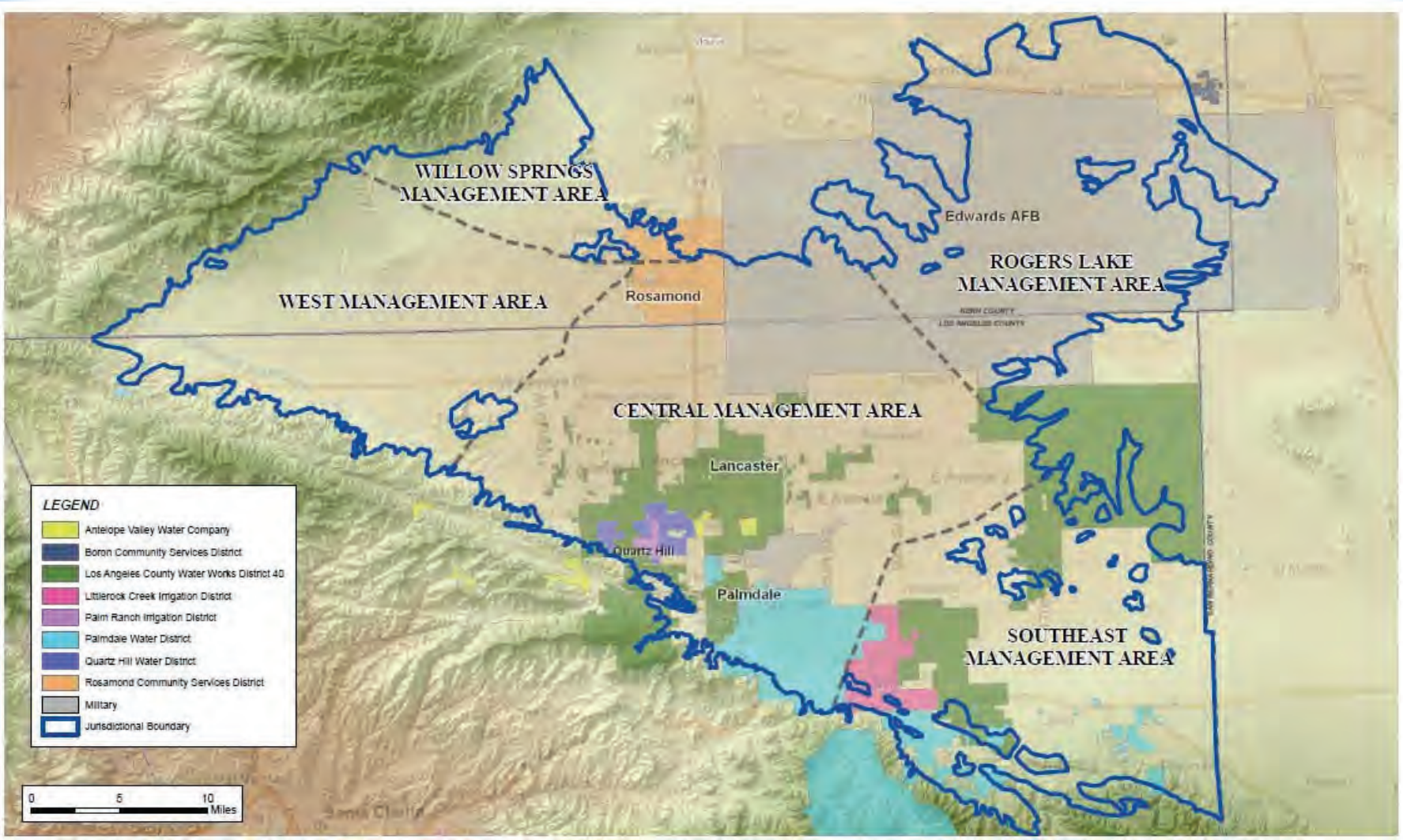
WHITE FENCE FARMS MUTUAL WATER CO.



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EXHIBIT 9

SUBAREAS


WILLOW SPRINGS MANAGEMENT AREA
Edwards AFB
ROGERS LAKE MANAGEMENT AREA
WEST MANAGEMENT AREA
Rosamond
CENTRAL MANAGEMENT AREA
Lancaster
Quartz Hill
Palmdale
SOUTHEAST MANAGEMENT AREA
LEGEND
Antelope Valley Water Company
Boron Community Services District
Los Angeles County Water Works District 40
Littlerock Creek Irrigation District
Palm Ranch Irrigation District
Palmdale Water District
Quartz Hill Water District
Rosamond Community Services District
Military
Jurisdictional Boundary
0
5
10
Miles

FILED
Superior Court of California
County of Los Angeles

SEP 29 2015

Sherri R. Carter, Executive Officer/Clerk
By A. Barton Deputy
A. Barton

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

ANTELOPE VALLEY GROUNDWATER CASES This Pleading Relates to Included Action: REBECCA LEE WILLIS, on behalf of herself and all others similarly situated, Plaintiff, vs. LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICE DISTRICT; and DOES 1 through 1,000; Defendants.	JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408 CASE NO. BC 364553 ~~[PROPOSED]~~ **SECOND AMENDED FINAL JUDGMENT APPROVING WILLIS CLASS ACTION SETTLEMENT** DOCUMENT FILED NUNC PRO TUNC AS OF SEPTEMBER 22, 2011 Judge: Hon. Jack Komar Coordination Trial Judge

This matter has come before the Court on the Motion of Plaintiff Rebecca Lee Willis (Willis) for Final Approval of the Proposed Class Action Settlement between and among Rebecca Lee Willis and the Willis Class, on the one hand; and Los Angeles County Waterworks District No. 40, City of Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company,

1-05-CV-049053 APPENDIX A

Judgment and Physical Solution

Rosamond Community Service District, Phelan Pinon Hills Community Services District, Desert Lake Community Services District, and North Edwards Water District (collectively, the "Settling Defendants"), on the other hand.

By Order dated November 18, 2010, this Court granted Plaintiff's Motion for Preliminary Approval of the Proposed Settlement of this action and directed the sending of Notice to the Willis Class. After considering all arguments and submissions for and against final approval of the proposed settlement, and being fully advised of the premises, **IT IS HEREBY ORDERED, ADJUDGED AND DECREED AS FOLLOWS, PURSUANT TO SECTIONS 382 AND 664.6 OF THE CODE OF CIVIL PROCEDURE:**

1. For over 10 years, a number of actions have been pending in the Los Angeles County Superior Court and other California courts seeking an adjudication of various parties' respective rights to the groundwater underlying the Antelope Valley Groundwater Basin (the "Basin").

2. A number of cases raising such issues were coordinated by a July 11, 2005 Order of Judicial Council and assigned to the Honorable Jack Komar of the Superior Court for the County of Santa Clara (the "Court").

3. The Court held an initial phase of trial on October 2006 with respect to the boundaries of the Basin and issued an Order on November 3, 2006 defining the Basin for purposes of the litigation.

4. The Willis Class Action was filed on or about January 11, 2007 to contest certain public entities' claims that those entities had obtained prescriptive rights to a portion of the Basin's groundwater. The Willis case was subsequently coordinated with the Coordinated Cases.

5. By Order dated September 11, 2007, the Court certified the Willis Class. As

amended by Orders dated May 22, 2008 and September 2, 2008, the Willis Class is defined as follows:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity with which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as 'improved' by Los Angeles or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties. The Class shall [further] exclude all persons to the extent they own properties within the Basin on which they have pumped water at any time."

6. Notice of the Pendency of this action was sent to the Wilis Class in or about January 1, 2009 and the opt-out period (as extended) expired on August 30, 2009. Certain persons who opted out were subsequently permitted to rejoin the Class.

7. The persons listed on Exhibit 1 hereto validly excluded themselves from the Class in accordance with this Court's prior Orders (and have not re-joined the Class) and are not bound by the Settlement or this Judgment.

8. Counsel for the Willis Class engaged in settlement discussions with Defendants' counsel during mid 2009. On September 2, 2009, counsel participated in mediation session before the Honorable Ronald Robie. That mediation resulted in an agreement in principle amoung counsel for the Settling Parties to settle the litigation between and among their respective clients, subject to appropriate approvals.

9. By Order dated October 28, 2009, the Court stated its intent to consolidate the various Actions that were coordinated as part of JCCP No. 4408, including the Willis action.

On February 19, 2010, the Court entered an Order Transferring and Consolidating [the Coordinated] Actions for All Purposes. As provided in the Consolidation Order, this Final Judgment shall not be construed to prejudice the rights of any of the Non-Settling Parties in the Consolidated Actions nor shall it prejudice the claims and defenses that the Settling Parties may assert with respect to such Non-Settling Partties.

10. By Order dated November 18, 2010, this Court granted preliminary approval to the proposed settlement of this action and directed that Notice of the Proposed Settlement be sent to the Class.

11. Notice of the Proposed Settlement has been sent to the Willis Class by first class mail in accordance with the Court's Preliminary Approval Order. Such Notice fully and accurately informed the Class of all material terms of the proposed settlement and the opportunity to object to or comment on the Settlement. The Notice was given in an adequate and sufficient manner, constituted the best notice practicable under the circumstances, and satisfied due process.

12. The Settling Parties and each class member have irrevocably submitted to the jurisdiction of this Court for any suit, action, proceeding or dispute arising out of the Settlement Agreement.

13. It is in the best interest of the parties and the Class Members and consistent with principles of judicial economy that any dispute between any class member (including any dispute as to whether any person is a class member) and any Settling Defendant which is in any way related to the applicability or scope of the Settlement Agreement or the Final Judgment should be presented to this Court for resolution.

14. The Stipulation of Settlement submitted by the Settling Parties is hereby finally approved as fair, reasonable, and in the best interests of the Class, and the parties are directed to consummate the Settlement in accordance with its terms. A true and correct copy of the Stipulation of Settlement is attached as Exhibit 2.

15. The Complaint in the Willis Action shall be deemed dismissed with prejudice as

soon as the Final Judgment becomes effective under the terms of the Settlement Stipulation.

16. For purposes of this Final Judgment, "Released Parties" means Plaintiff Rebecca Lee Willis and the Willis Class, as well as Defendants Los Angeles County Waterworks District No. 40; The City of Palmdale; Palmdale Water District; Littlerock Creek Irrigation District; Palm Ranch Irrigation District; Quartz Hill Water District; California Water Service Company; Rosamond Community Service District; Phelan Pinon Hills Community Services District; Desert Lake Community Services District; and North Edwards Water District.

17. The Court hereby orders that the Released Parties are released and forever discharged from the Released Claims as more specifically provided in the Stipulation of Settlement.

18. The Class members and their heirs, executors, administrators, successors, and assigns are hereby permanently barred and enjoined from instituting, commencing, prosecuting, or continuing to prosecute, either directly or indirectly, any Released Claim against any of the Released Parties in any form, other than claims to enforce the terms of the Settlement. Each Class member may hereafter discover facts other than or different from those which he or she knows or believes to be true with respect to the Released Claims. Nevertheless, each member of the Class (except those who timely opted out) waive and fully, finally and forever settle and release, upon the Settlement Agreement becoming final, any known or unknown, suspected or unsuspected, contingent or noncontingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts.

19. The Settling Defendants and their heirs, executors, administrators, successors, and assigns are hereby permanently barred and enjoined from instituting, commencing, prosecuting, or continuing to prosecute, either directly or indirectly, any Released Claim against any of the Class Members in any forum, other than claims to enforce the terms of the Settlement. Each Settling Defendant may hereafter discover facts other than or different from those which he or she knows or believes to be true with respect to the Released Claims. Nevertheless, each Settling Defendant waives and fully, finally and forever settles and releases, upon the Settlement

Agreement becoming final, any known or unknown, suspected or unsuspected, contingent or noncontingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts.

20. Without affecting the finality of this Judgment, the Court hereby reserves and retains jurisdiction over this Settlement, including the administration and consummation of the Settlement, as well as any action or proceeding brought to enforce the Settlement. In addition, without affecting the finality of this Judgment, the Court retains jurisdiction over the Parties for purposes of incorporating and merging this Judgment into a physical solution or other Judgment that may ultimately be entered in the Consolidated Actions. The Settling Parties are hereby deemed to have submitted irrevocably to the exclusive jurisdiction of this Court for any suit, action, proceeding or dispute arising out of or relating to this Judgment or the Settlement.

21. The Court after considering the pleadings on file herein, and the arguments of counsel, awards the Willis Class attorneys fees in the amount of $1,839,494, an incentive award for Ms. Rebecca Willis in the amount of $10,000, costs in the amount of $65,057.68, and supplemental attorneys fees in the amount of $160,622.50. Judgment in the amount of $2,075,174.18 is hereby entered for the Willis Class against Los Angeles County Waterworks District No. 40, City of Palmdale, Palmdale Water District, Littlerock Creek Irrigation District, Palm Ranch Irrigation District, Quartz Hill Water District, California Water Service Company, Rosamond Community Service District, Phelan Pinon Hills Community Services District, Desert Lake Community Services District, and North Edwards Water District.

Date: 9/29/2015

Judge of the Superior Court
Honorable Jack Komar

Ralph B. Kalfayan (SBN 133464)
Lynne M. Brennan (SBN 149131)
KRAUSE KALFAYAN BENINK & SLAVENS, LLP
550 West C Street, Suite 530
San Diego, CA 92101
Tel: (619) 232-0331
Fax: (619) 232-4019

Class Counsel for the Willis Class

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF LOS ANGELES

ANTELOPE VALLEY GROUNDWATER CASES

This Pleading Relates to Included Action: REBECCA LEE WILLIS and DAVID ESTRADA, on behalf of themselves and all others similarly situated,

Plaintiffs,

v.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICE DISTRICT; PHELAN PINON HILL COMMUNITY SERVICE DISTRICT; and DOES 1 through 1,000;

Defendants.

RELATED CASE TO JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408

PROOF OF SERVICE

I, Cindy Barba, declare:

I am a citizen of the United States and employed in San Diego County, California. I am over the age of eighteen years and not a party to the within-entitled action. My business address is Krause Kalfayan Benink & Slavens, LLP 550 West C Street, Suite 530, San Diego, California, 92101. On November 20, 2015, I caused the following document(s): to be served on the parties in this action, as follows:

SECOND AMENDED FINAL JUDGMENT APPROVING WILLIS CLASS ACTION SETTLEMENT

(X) (BY ELECTRONIC SERVICE) by posting the document(s) listed above to the Santa Clara County Superior Court website: www.scefiling.org regarding the Antelope Valley Groundwater matter.

( ) (BY U.S. Mail) I am readily familiar with the firm's practice of collection and processing of documents for mailing. Under that practice, the above-referenced documents(s) were placed in sealed envelope(s) addressed to the parties as noted above, with postage thereon fully prepaid and deposited such envelope(s) with the United States Postal Service on the same date at San Diego, California, addressed to:

( ) (BY FEDERAL EXPRESS) I served a true and correct copy by Federal Express or other overnight delivery service, for the delivery on the next business day. Each copy was enclosed in an envelope or package designed by the express service carrier; deposited in a facility regularly maintained by the express service carrier or delivered to a courier or driver authorized to receive documents on its behalf; with delivery fees paid or provided for; addressed as shown on the accompanying service list.

( ) (BY FACSIMILE TRANSMISSION) I am readily familiar with the firm's practice of facsimile transmission of documents. It is transmitted to the recipient on the same day in the ordinary course of business.

(X) (STATE) I declare under penalty of perjury under the laws of the State of California that the above is true and correct.

( ) (FEDERAL) I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Cindy Barba

Cindy Barba

Exhibit 1

	LAST	FIRST	MIDDLE
1	190TH AVENUE WEST LLC		
2	1ST AND 41ST WEST LLC		
3	20TH STREET PROPERTIES		
4	300 A 40 H LLC		
5	3M PROPERTY INVESTMENT CO		
6	88 317 4 PARTNERSHIP		
7	A V FOOTHILLS LLC		
8	ABC DIAMONDS INC		
9	ABOLMOLUKI	MEHRAN	D
10	ACEH CAPITAL		
11	ACEH CAPITAL GROUP LLC		
12	ACEH CAPITAL LLC		
13	ACEH CAPITAL LLC 401K AND PROFIT		
14	ACOSTA	ANTONIO	T
15	ADAMS	MIRIAM	
16	ADICOFF	ARNOLD	
17	AGALSOFF	JAMES	N
18	AGRICULTURAL AND ANIMAL WASTE		
19	AGUILAR	CARLITO	R
20	AGUILAR	CARMEN	C
21	AGUILAR	VALENTIN	
22	AGUILAR	YOLANDA	
23	AKIN	MARTHA	
24	ALARCON	CYNTHIA	E
25	ALARCON	JOHN	
26	ALBRIGHT	JACK	R
27	ALESSO	CASEY	H
28	ALESSO	JOHN	S
29	ALESSO	LAWRENCE	V
30	ALESSO	LAWRENCE	V
31	ALEXANDER	DONALD	R
32	ALLEN	BETTY	A
33	ALLEN	BRUCE	
34	ALLEN	BRUNETTE	H
35	ALLEN	GEORGE	F
36	ALLEN	GUADALUPE	
37	ALLEN	RONALD	
38	ALLISON	PAUL	R
39	ALLISON	YVONNE	D
40	ALLUIS	DEBORAH	J
41	ALLUIS	JACK	C
42	ALMAREZ	MARY	B
43	ALND	FARHAD	
44	ALND	HERSELL	
45	ALONSO	JORGE	D
46	ALONSO	LAURA	B
47	ALP EQUIPMENT SALES INC		
48	ALVAREZ	FELIPE	
49	ALVIDREZ	MARY	M
50	ALVIDREZ	RICHARD	
51	AMENTO	CHARLES	A

52	AMENTO	SHEILA	D
53	AMERI	HAMID	
54	AMERICAN LANDMARK GROUP LLC		
55	AN VAN PHAN TR		
56	ANAVERDE LLC		
57	ANDERSON	BEATRICE	K
58	ANDERSON	DONNA	
59	ANDERSON	KEITH	
60	ANDERSON	RENEE	S
61	ANDREWS	FRANKLIN	D R
62	ANDREWS	TREBA	
63	ANIEVAS	ARMANDO	
64	ANNIS	SHARON	A
65	ANTELOPE VALLEY ALLIED ARTS ASSN		
66	ANTELOPE VALLEY EAST KERN WATER		
67	ANTELOPE VALLEY EAST KERN WATER AGENCY		
68	ANTELOPE VALLEY FLORIST INC		
69	ANTELOPE VALLEY JOINT UNION HIGH		
70	ANTELOPE VALLEY WATER STORAGE LLC		
71	AOKI	KEIKO	
72	APOSTOL	JOVENCIO	A
73	APPLEBY	FRANCES	R
74	APPLEBY	THOMAS	N
75	AREVALO	BENEDICTO	L
76	AREVALO	NORA	M
77	ARKLIN	PHILIP	H
78	ARKLIN	PHILIP	H
79	ARKLIN BROTHERS ENTERPRISES		
80	ARNOLD	FLORENCE	B
81	ARQUILETA	LUCITA	G
82	ARQUILETA	RUFINO	O
83	ARROYO FAMILY TRUST		
84	ASATO	NOBORU	
85	ASCENCIO	JESUS	
86	ASHER	ALIZA	
87	ASHER	SHAUL	
88	AUYONG	GERARD	H W
89	AV FOOTHILLS LLC		
90	AVENI	JANE	C
91	AVERY	LLOYD	F
92	AVRICK	ALAN	M
93	BAERLEIN	JACK	
94	BAHLMAN	GENE	T
95	BAKER	EDNA	L
96	BALICE	MARIA	M
97	BALICE	NORMAN	E
98	BALLESTEROS	EMILIANO	Q
99	BANALES	RAFAEL	
100	BANDUCCI ENTERPRISES		
101	BANDUCCI LAND LLC		
102	BANGLOY	JUANITA	S
103	BANGLOY	LUANITA	S

104	BANUELOS	BERNARDO	
105	BANUELOS	ROSARIO	
106	BANUK	PATRICIA	A
107	BANUK	RON	
108	BAR	OR	CARMIT
109	BARBEAU	IRENE	
110	BARNES	ANN	
111	BARNES	WAYNE	L
112	BARON	TERRI	J
113	BARTFAY	JOSEPH	V
114	BARTFAY	SELMA	
115	BATINO	FRANCISCO	B
116	BAUER	NANCY	L
117	BEASLEY	A	L
118	BECARRA	TERESA	
119	BECK	WILLIAM	A
120	BECKER	IKUKO	
121	BEDERIO	BETTY	J
122	BELISARIO	BEATRIZ	S
123	BELISARIO	LUIS	B
124	BELL TR		
125	BELLANCA	BEVERLY	J
126	BELTRAN	CECILIA	J
127	BENNER	VICTORIA	A
128	BENSKY LIVING TRUST		
129	BENZ	MARK	W
130	BENZ	NANCY	
131	BERGLUND	GAYLYN	
132	BERGLUND	KENNETH	G
133	BERGLUND	KENNETH	
134	BERKEY	JANET	STARR
135	BERMUNDO	AMANTE	B
136	BIERS	ARY	E
137	BIERS	ROBERT	G
138	BIK	KUEN	
139	BIMBIRIS	ALFONS	
140	BIMBIRIS	VERA	
141	BITTNER	MELVIN	S
142	BLACK	CATHERINE	LUELLA
143	BLANCHARD	ANITA	MAY
144	BLILEY	BETTY	J
145	BLILEY	EUGENE	E
146	BLOCK	EUGENE	S
147	BOCANEGRA	JOSE	A
148	BODKIN	JAMES	R
149	BODOLAI	FRANK	
150	BODOLAI	MAGDALENA	
151	BORON COMMUNITY SERVICE DIST		
152	BORUCHIN	DORA	
153	BORUCHIN	JOHN	
154	BOSQUE	MINH	M
155	BOVEE	GAYLE	

156	BOVEE	VICKI	
157	BOYLE	FLOYD	F
158	BOYLE	MARIA	C
159	BPP VALLEY CENTRAL		
160	BRADLEY	KATHLENE	K
161	BRADLEY	MONROE	
162	BRADLEY FAMILY TR		
163	BRALY	DENNIS	L
164	BRAMLETT	MARK	F
165	BRAMLETT	MARK	F
166	BRASEL FAMILY TR		
167	BRAUN	FLORA	
168	BREWER	JOE	
169	BREWER	SHARON	E
170	BREWER	STEVEN	T
171	BROOKS	PATRICIA	D
172	BROSKY	MARY	H
173	BROWN	VERA	
174	BRUNO	EVELYN	T
175	BRYK	THOMAS	M
176	BUCKLEY	EUGENE	C
177	BUCKLEY	JEANNE	M
178	BUHRMANN	DONALD	C
179	BUHRMANN	JUNE	
180	BUJULIAN BROTHERS INC		
181	BUMANGLAG	WASHINGTON	M
182	BUNCH	WALTER	
183	BURDICK	DONALD	O
184	BURGESS	KAREN	
185	BURGESS	RANDY	
186	BURNS	RAYMOND	J
187	BURRELL	DORETHA	
188	BURTON	ALICE	
189	BUYTKUS FAMILY TRUST		
190	BYRNE	DANIEL	R
191	BYRNE	DAVID	E
192	BYRNE	LEONA	
193	CABAHUG	ARLENE	A
194	CABAHUG	JAIME	M
195	CAL GOLF INC		
196	CALANDRI SON RISE FARMS L P		
197	CALDWELL	BELVA	A
198	CALIFORNIA WATER SERVICE CO		
199	CALKINS	CHRISTINA	J
200	CALKINS	JAMES	F
201	CALMAT LAND CO		
202	CALMESON	MARVIN	
203	CAMACHO	HERMINIA	T
204	CAMACHO	JULIAN	G
205	CAMARENA	RICARDO	C
206	CAMERON	BONNIE	M
207	CAMERON	JAMES	A

208	CAMERON	WILLIAM	H
209	CAMPBELL	ERIKA	
210	CANTE	RAFAEL	
211	CAPEL	LYNDA	B
212	CAREY	BARBARA	J
213	CAREY	DONALD	W
214	CARINGI	ERNEST	J
215	CARLISLE	VIOLET	E
216	CARNEY	TIMOTHY	G
217	CARRANZA	ROSENDO	
218	CARRASCO	TORIBIO	G
219	CARRLE	META	
220	CARROLL	IRENE	F
221	CARROLL	JAMES	K
222	CARRUTHERS	BERA	E
223	CARTER	AUDREY	M
224	CARTER	EUGENIA	
225	CARTER	LESLIE	A
226	CARTER	RONALD	H
227	CARTER	TERRY	
228	CASTELAN	GARY	E
229	CASTELAN	SHARON	L
230	CASTELLANOS	CANDACE	M
231	CASTELLANOS	EDDY	M
232	CASTILLO	JOSE	A
233	CASTILLO	REMEDIOS	C
234	CATANESE	ANA	
235	CATANESE	CHARLES	A
236	CAYETANO	AURELIA	
237	CAYETANO	EDGARDO	
238	CECIL	JULIA	I
239	CECIL	KEN	O
240	CENICEROS	GILBERT	B
241	CERNICKY	EDWARD	
242	CERNICKY	FLORENCE	
243	CHACHUAT	MARC	
244	CHAHAL	SUKHDEV	S
245	CHAN	BEE	HONG
246	CHAN	HAWK	NIN
247	CHAN	MON	KYI
248	CHAN	SIU	HANG
249	CHANDLER	BEVERLY	
250	CHANDLER	BURTON	
251	CHANEY	BONITA	
252	CHANEY	ROBERT	G
253	CHANG	JENSEN	J S
254	CHAO	PY	
255	CHARLES TAPIA FAMILY TRUST		
256	CHATTERTON	SALLIE	LYNNE
257	CHEIKY	CHARITY	S
258	CHEIKY	MICHAEL	C
259	CHEUNG	CHRISTOPHER	B

260	CHI YU	HU	
261	CHIANG	CHOU	
262	CHITIEA	ANDREW	J
263	CHITIEA	JOAN	K
264	CHITIEA	JOEL	
265	CHITIEA	VIVIAN	A
266	CHITIEA	VIVIAN	
267	CHIU	TIM	TUNG
268	CHLAVIN	MYRON	
269	CHLAVIN	MYRON	B
270	CHLAVIN	MYRON	Z
271	CHOE	MI	RAN
272	CHOE	PYONG	S
273	CHOI	KENNETH	Y
274	CHONG	EDWIN	Y
275	CHOSTNER	LOUIS	E
276	CHOY	BONIFACE	T
277	CHRISTIANSEN	CHARLES	W
278	CHRISTIANSEN	MAXINE	J
279	CHRISTIE	JOHN	S
280	CHRISTOPHER	ARDATHE	E
281	CHU	DAPHNE	M
282	CHUNG	FRED	H
283	CHUNG	GABRIELLE	F
284	CINFIO	JOHN	
285	CIPOLLONE	JAMES	
286	CLARK	ELAINE	M
287	CLARK	RICHARD	L
288	CLARK	RICHARD	B
289	CLAWSON	RUSSELL	M
290	CLUTTER	GAIL	M
291	CLUTTER	RALPH	W
292	CO	LAP	DU
293	COGER	GEORGE	F
294	COLBATH	EDWARD	H
295	COLE	MARC	L
296	COLEMAN	DONALD	W
297	COLLICUTT	WILLIAM	F
298	COLLINS	BEATRICE	
299	COLOMBO	CHRISTINA	
300	COLTON	CHARLES	
301	CONNELLY	LARRY	J
302	CONNELLY	LEO	P
303	CONTE	SIRPUHE	
304	CONTRERAS	MARTIN	
305	COOK	ALAN	
306	COOLEY	REGINA	FRANCOISE
307	COPE	DENISE	M
308	COPE	THOMAS	J
309	CORDER	RUBY	J
310	CORDOVA	VIRGINIA	C
311	CORDOVA	WILLIAM	

312	CORRALES	ALFREDO	
313	COUNTY COUNTY SANITATION NO 14		
314	COUNTY SANITATION DISTRICT NO 20		
315	COX	CALVIN	J
316	COYLE	ERIC	M
317	CPH ROSAMOND LP		
318	CRAIN	ELLIE	
319	CRAIN	JERRY	
320	CROCKETT	SUSAN	ELISE SIMC
321	CRONK	RONALD	E
322	CROSBY	ALICE	B
323	CRUZ	CORA	D
324	CRUZ	FELINA	E
325	CRUZ	NICASIO	
326	CRUZ	ROGER	L
327	CRYSTAL ORGANIC FARMS LLC		
328	CUA	KRISTEEN	
329	CULHA	MIKE	M
330	CULLEN	PETER	
331	CURRY	DANNY	G
332	D C FAMILY TRUST		
333	D R HORTON LOS ANGELES HOLDING		
334	D SOUZA	FLORIN	
335	DACLES	ANITA	S
336	DACLES	SIMPLICIO	M
337	DALLEY	HELGA	I
338	DALLEY	MANFRED	H
339	DAMAN	LEONA	L
340	DAMRON	AMY	
341	DAMRON	JEANETTE	L
342	DANG	TAN	JAMES
343	DAOOD	MOHAMMAD	
344	DAOOD	SALEEM	A
345	DAOUD	ADIB	G
346	DAUGHERTY	DONNA	L
347	DAVALOS	ANITA	L
348	DAVALOS	DOMINADOR	M
349	DAVID	ALFRED	L
350	DAVIES	LITA	
351	DAVIS	DOUGLAS	G
352	DAVIS	JAMES	
353	DAVIS SIBS INC		
354	DE LANO	ELIZABETH	
355	DE PIETRO LIMITED		
356	DEAN REV LIV TR		
357	DEBOTOUN	SEFEY	
358	DEDIOS	ANGELITO	G
359	DEL SUR RANCH LLC		
360	DELUCA	BRUNO	M
361	DENG	LONG	
362	DENGER	SYBIL	M
363	DERRICK	OLIN	

364	DESCHENE	DENEEN	M
365	DESERT LAKE L P		
366	DIAZ	JUAN	A
367	DICKS	GARY	L
368	DIGIULIO	NICK	
369	DIOLI	RICHARD	A
370	DISCOUNTLAND INC		
371	DIXON	LONZO	W
372	DIXON	MAE	L
373	DIZON	ADELAIDA	R
374	DIZON	HONORATO	C
375	DONIS	ESTEBAN	C
376	DONIS	MAURO	
377	DONIS	ROSALINA	G
378	DONIS	VIRGINIA	
379	DORA	LAND	
380	DORA LAND		
381	DOUGHERTY	TERESA	
382	DOUGLAS	MICHAEL	R
383	DOUGLASS	KATHERINE	G
384	DOUK	BOROM	
385	DOUK	S&B	
386	DOUK	SOKHOM	
387	DOWNING	JAMES	W
388	DOWNING	JAMES	W
389	DOWNS	GARY	W
390	DREVER	ROMNIA	H
391	DRUMMOND	JOHN	T
392	DRUMMOND	MARILYN	M
393	DUMBRIQUE	ELISEO	C
394	DUNLOP	CYNTHIA	R
395	DUNN	JAMES	D
396	DUNNING	RAYMOND	E
397	DUONG	LOC	T
398	DURST	CAROL	A
399	DYKSTRA	HAROLD	
400	DYKSTRA	TERESA	
401	DYKSTRA	WILBUR	
402	DYKSTRA FAMILY TRUST		
403	E C WHEELER LLC		
404	E I C GROUP ET AL		
405	EARL	DOROTHY	A
406	EARL	JACK	B
407	EARWOOD	DAVID	BRIAN
408	EAST KERN PROP LLC		
409	EAST WEST LAND INVS INC		
410	EASTER	BENJAMIN	
411	EASTLEY	GEORGE	M
412	EASTLEY	PHILIP	G
413	EBERT	JOANNE	F
414	ECKBERG	DAVID	L
415	ECKBERG	PAULA	K

416	ECKLES	DALE	H
417	ECONOMOU	JEAN	F
418	EDMONDS	JOHN	H
419	EDWARDS	AVIS	M
420	EDWARDS	LINDA	
421	EDWARDS	SAMMY	L
422	EKSTROM	MARY	E
423	ELNESS	THEODORE	O
424	ELUMBA	ROSA	V
425	EMMS	ZENAIDA	C
426	EMPERT	ROSARIO	O
427	ENSMINGER	LORIN	
428	ENXCO DEV		
429	ENXCO DEV CORP		
430	ENXCO DEVELOPMENT CORPORATION		
431	ERAZIM	CATHERINE	A
432	ESCOBAR	JOHN	M
433	ESPARZA	ROBERTO	C
434	ESPARZA	ROSE	
435	ESPIRITU	WILLIAM	I
436	ESQUIVEL	BASILIO	
437	EST OF ZELDA C SCHLISKE DECD		
438	ESTRADA	EDELMIRA	
439	ESTRADA	HERVI	
440	EVANS	NANCY	H
441	EYHERABIDE	JUANITA	
442	EYHERABIDE	RAYMOND	
443	EYHERABIDE SHEEP CO		
444	FABER	GEORGINA	LISA
445	FABRIZIO	CARL	
446	FAIRVIEW DEVELOPMENT LLC		
447	FALK	DALE	
448	FANKHAUSER	ERNEST	
449	FANKHAUSER	HERTA	
450	FARIA	RICHARD	M
451	FARM ESTATES OF THE WORLD		
452	FELTS	DENESE	L
453	FELTS	DOUGLAS	D
454	FENNELL	OTILIA	E
455	FIKE	RUTH	E
456	FINKEL	CLAUDIA	
457	FINKEL	GARY	
458	FIORITO	MARY	
459	FISCHER GRANDCHILDRENS TRUST		
460	FLORES	GAYLE	
461	FLORES	MARIA	
462	FLOYD	HERBERT	F
463	FOGLEMAN	LARRY	
464	FOGLER	IRENE	P
465	FOGLER	RONALD	D
466	FONTILLAS	ALEJANDRO	
467	FORD	JOHN	R

468	FOWLER	ANTONIA	B
469	FRANE	KEVIN	J
470	FRANE	LAUREL	A
471	FREDRICK	STEPHENIE	J
472	FREEMAN	JEFF	
473	FRIEDMAN	ESTHER	E
474	FRIEDRICHSEN	LEWIS	
475	FU	JOANNE	Y
476	FUJISAWA	YOSHI	
477	FUKUMOTO	MICHI	
478	FULLER	RUSSELL	E
479	GABUYA	AURORA	P
480	GABUYA	RODRIGO	L
481	GALIETI	JEFF	A
482	GALVEZ	JOSE	L
483	GAMBONE	BETTY	L
484	GARCIA	MARTHA	I
485	GARCIA	RODOLFO	
486	GARDE	EDUARDO	
487	GARDE	RUSSELLEND	
488	GARDE FMLY REV TR		
489	GARY J RAFFERTY TRUST		
490	GATEWAY TRIANGLE DEVELOPMENT II		
491	GATEWAY TRIANGLE PROPERTIES		
492	GEE	HUNG	GIT
493	GENZ DEV INC		
494	GENZ DEVELOPMENT INC		
495	GHIKA BUDESTI	STEFAN	
496	GIANG	PAUL	
497	GILBRALTAR HOMES LLC		
498	GILL FAMILY TRUST 1999		
499	GILLINGHAM	GEORGE	H
500	GISELE SCHROEDER LIV TR		
501	GLAUSER	DRENA	M
502	GLENN	GARY	A
503	GLESSNER	PAUL	T
504	GODSHALL	HARRY	C
505	GOLD SKY PROPERTY LLC		
506	GOLDEN SANDS TRAILER PARK		
507	GONZALES	BENITO	S
508	GONZALES	ERMINIO	
509	GONZALES	QUACH	E
510	GONZALEZ	ARMANDO	C
511	GONZALEZ	ARMANDO	L
512	GONZALEZ	CARLOS	J
513	GONZALEZ	FRANCES	R
514	GONZALEZ	GLORIA	
515	GONZALEZ	RAMON	
516	GONZALEZ	ROQUE	
517	GONZALEZ	TINA	J
518	GORRINDO	ROBERT	
519	GOSE	VICENTE	

520	GOYA	CHRISTINA	A
521	GRAHAM	JOHN	C
522	GRANT	WILLIAM	M
523	GRAY	WESLEY	H
524	GREEN	BARBARA	MARIE
525	GREEN	HILDA	
526	GREENMAN	DONNA	J
527	GREMBER	PIERRE	
528	GRIFFIN	JOHN	R
529	GRIFFIN	LAURA	
530	GRIFFIN	LAURA	
531	GRIFFIN	LEONARD	W
532	GROFF	GERALD	L
533	GROFF	MARIAN	J
534	GROOM	LILLIAN	C
535	GROVEN	DENNIS	
536	GROVEN	MARGE	
537	GUERRANT FMLY TR		
538	GUIANG	LUCENA	F
539	GUILLEN	CRISTOVAL	
540	GUINTO	CLARITA	
541	GUTIERREZ	ALVARO	
542	GUTIERREZ	SANTOS	A
543	GUZMAN	JOSE	
544	GUZMAN	JOSE	
545	GUZMAN	NORMA	
546	GUZMAN	OVIDIO	
547	H & N DEVELOPMENT CO INC		
548	HA	JIN	S
549	HA	YOUNG	K
550	HADDOX	WILLIS	
551	HAHN	SUSAN	J
552	HAMIDI	HOMA	
553	HAMSON	CARRIE	M
554	HAMSON	DAVID	E
555	HANANO	DEAN	K
556	HANLON	JAMES	W F
557	HANLON	JAMES	F
558	HANSEN	HARALD	
559	HANSON	CHRISTINE	
560	HANTMAN	JOSEPH	
561	HANTMAN	JOYCE	
562	HARD	WILLIS	H
563	HARNIK	JOSEPH	H
564	HARPER	DAVID	C
565	HARRELL	MARY LOU	BYERLY
566	HARRIS	DIANE	M
567	HARRIS	JAMES	P
568	HARRIS	KAREN	JANE
569	HARRIS	STEVEN	
570	HART	KAREN	S
571	HARTER	KAY	B

572	HARTER	KAY	
573	HARTER	SCOTT	
574	HARTER	SCOTT	S
575	HARVELL FAMILY TR		
576	HASKINS	SAM	
577	HASSID	YAEL	
578	HASSID	YORAM	
579	HATHAWAY	GARY	
580	HATHAWAY	PATRICIA	
581	HAYDON	DONALD	C
582	HAZAMA	FUSAKO	
583	HAZAMA	HIDEO	
584	HEGGEN	ALICE	L
585	HELTON	BOB	D
586	HEMMING	JAMES	
587	HENNINGER	CORINE	L
588	HERNANDEZ	ANTONIO	
589	HERR	CAROL	E
590	HESS	CHRISTIAN	
591	HETZNER	RONALD	
592	HEYNEN	GERALDINE	A
593	HGJ LLC		
594	HIGH DESERT INVESTMENTS LLC		
595	HILL	JACK	M
596	HILL	MICHELE	
597	HILLERMAN	ERIC	V
598	HINCK	MARILYN	E
599	HINES	NORMAN	M
600	HINES	RICKI	
601	HO	GIANG	
602	HO	THONG	H
603	HOA	NGAN	
604	HOBAYAN	ALBERT	H
605	HOBAYAN	VIOLETA	P
606	HODGES	PAUL	
607	HODSDON	DEBRA	J
608	HODSDON	STEVE	W
609	HOEHN	ELISABETH	
610	HOEHN	MICHAEL	
611	HOFFMAN	WILBERT E DECD EST OF	&
612	HOGAN	KIM	M
613	HOGAN	PATRICK	J
614	HOLGUIN	SOLEDAD	
615	HOLLAND	CLARISSIA	E
616	HOMAN	LINDA	
617	HOMAN	MATHEW	L
618	HONG	CHE	C
619	HONG	KHAI	
620	HONG	TONY	
621	HOOPER	MARTHA	W
622	HOOVER	GARY	
623	HOOVER	MARILYN	L

624	HOPPER	J	A
625	HOSKINS	WILLIAM	L
626	HOST	CHERYL	A
627	HOST	THOMAS	A
628	HOURANI	JANETTE	
629	HOWE	LESLIE	B
630	HSI	SUMEI	P
631	HSIAONI CHANG		
632	HSU	JA	BIN
633	HSU	JAMES	T
634	HUANG	CHI	S
635	HUANG	CHI	SHIOU
636	HUANG	KANGLE	
637	HUANG	SUCHU	T
638	HUBBARD	MARIE	E
639	HUERTA	CRESENCIO	
640	HUGHES	ROMEO	
641	HUI SUK KIM TR		
642	HUNT	ROBERT	W
643	HUNTER	JAMES	A
644	HUTH	CLINTON	C
645	HUTH-TANNER	S	
646	HUTSON	HARLEY	M
647	HWANG	AMY	C
648	HYATT	CLARENCE	L
649	HYPERICUM INTEREST LLC		
650	HYPERICUM INTERESTS LLC		
651	HYUN CHUL LEE		
652	IGE	KIYOSHI	
653	IGLESIA DE DIOS PENTECOSTAL MI		
654	IGNACIO	ISIDRO	
655	ILES	ELLEN	M
656	INGERSOLL	VERONICA	
657	INGRAM	MARTIN	
658	INVESTCO AV8 LLC		
659	IOELE	PASQUALE	S
660	IRISH	JOY	C
661	IRISH	ROBERT	L
662	ISSAKHANIA	J	
663	ISSAKHANIAN	MARTIN	
664	IWAMOTO	FUKUYO	
665	J P ELIOPULOS ENTERPRISES INC		
666	JABLONSKI	HELENA	
667	JACKS	ALFRED	H
668	JACKSON	DIETRA	F
669	JACOBSEN	ARNOLD	
670	JAGATRI L AND XANTHA DHAWAN		
671	JAMES	RICHARD	D
672	JAUREGUI	DAVID	
673	JAUREGUI	ISAURA	
674	JAVID INVESTMENTS LLC		
675	JEFFREY	ENID	C

676	JENG	CHERNPORN	
677	JENG	THIENCHAI	
678	JENNINGS	BOBBY	G
679	JENNINGS	PATRICIA	L
680	JENSEN FAMILY TR		
681	JEONG	WALLACE	D
682	JIBILIAN	ARMEN	
683	JIMENEZ	ENRIQUE	U
684	JOHNSON	HENRY	
685	JOHNSON	MARGARET	C
686	JONES	BETTY	J
687	JONES	CHRISTINE	D
688	JONES	DAVID	L
689	JONES	ESTHER	D
690	JONES	HAROLD	C
691	JONES	ROBERT	A
692	JORDAN	MARGLEEN	J
693	JOSHUA RANCH DEVELOPMENT INC		
694	JUHL	MORTON	S
695	K A INVESTMENT CO L L C		
696	KAGEHIRO	ISAKO	
697	KAGEHIRO	KENICHI	
698	KAM	ANNETTE	F
699	KAM	ANNETTE	FUNG HAU
700	KANAMORI	MITSUE	
701	KANEASTER	CHARLOTTE	M
702	KANG	YUN	H
703	KARIYA	KATSUKO	
704	KARIYA	KATSUMI	
705	KARLAKIS	THEODORE	
706	KARTHAS	NICHOLAS	
707	KASPER	COLLEEN	A
708	KATSION	GORDON	D
709	KAUFLER TRUST		
710	KAWAMOTO	WAYNE	T
711	KAWAMURA	YASUKO	IRA
712	KEAST FMLY TR		
713	KEKLIKIAN	ARPINEH	
714	KEKLIKIAN	MISSAK	
715	KENDRICK	MARIE	C
716	KERNROSS ESTATES		
717	KETTENRING	JOEL	S
718	KETTENRING	PAULINE	J
719	KETTLES	HARRIET	
720	KEY	SANDRA	
721	KHATER	FADI	N
722	KILA	LORNA	M
723	KIM	MI	JUNG
724	KIM	SOO	H
725	KINAT	CAROL	A
726	KING	CHUN	
727	KING	CHUN	C

728	KING	WILLIAM	
729	KING	WILLIAM	C
730	KIRKLAND	FREDA	D
731	KLECHEFSKI	C	DIANE
732	KLECHEFSKI	GEORGE	E
733	KLEKAR	HOWARD	R
734	KLODJA	FRANK	
735	KLUMP	HAROLD	P
736	KNAPP	IRENE	KENT
737	KOBAYASHI FAMILY TRUST		
738	KOLLAR	JOSEPHINE	P
739	KOLSTAD	ROSE	M
740	KOO	ERLINDA	L
741	KOOKEN	WILLIAM	R
742	KOOTENAI PROPERTIES INC		
743	KORDA	SARAH	
744	KOSTSZEWA	JOHN	L
745	KOSTSZEWA	MARLENE	
746	KOUSEN	KAREL	
747	KOUSEN	PAMELA	
748	KRAMER	ALICE	C
749	KRAMER	ROBERT	S
750	KU	DAVID	H
751	KU	SOU	CHIN
752	KUBIAK	MICHAEL	J
753	KUCHTA	TERRY	W
754	KUMAGAI	SEISHI	
755	KUNG	WEI	I
756	KYLE	GAILEN	
757	KYLE	GAILEN	W
758	KYLE	JAMES	W
759	KYLE	JULIA	
760	KYLE	WANDA	E
761	L A CO SANITATION DIST NO 14		
762	L A CO SANITATION DIST NO 20		
763	LA PORTE	JEAN	D
764	LAGUERTA	LILIA	R
765	LAI	TSUI	W
766	LAMBERT	DELORIS	G
767	LAMBERT	NANCY	L
768	LANCASTER AND 120 111 LLC		
769	LANCASTER BLVD		
770	LANCASTER BLVD AND 42ND ST WEST		
771	LANCASTER NEW HORIZONS		
772	LAND BUSINESS CORP		
773	LANDALE MUTUAL WATER CO		
774	LANDAU	PEARL	
775	LANDAU	WILLIAM	
776	LANDAVERDE	JESUS	
777	LANDAVERDE	NANCY	
778	LANDEROS	ROBERTO	
779	LANE	FRANK	A

780	LANG	PAULETTE	M
781	LANIER	WILLIAM	B
782	LANKTREE	ANN	R
783	LARGE	BONNIE	P
784	LARGE	ROBERT	W
785	LARRANAGA	SAMSON	
786	LAW	ALTON	B
787	LAWRENCE	MICHAEL	F
788	LAYMANCE	LOUIE	A
789	LAZO	CONRADO	V
790	LAZO	ELIZABETH	N
791	LE	DUONG	T
792	LE	LOI	
793	LE	SUONG	N
794	LE	YEN	S
795	LEARY	CORNELIUS	W
796	LEBRECHT	MARGARET	M
797	LEE	CHI	HSIUNG
798	LEE	DELANO	
799	LEE	JIM	
800	LEE	MAI	
801	LEE	TING	PIE
802	LEGASPI	AURELIA	V
803	LEGASPI	FELIMON	E
804	LEISTNER	LEO	
805	LENO	LEIGHTON	E
806	LENO	NANCY	A
807	LEONA VALLEY HUNTING CLUB		
808	LESIAK	MARIANE	
809	LESIAK	MAX	M
810	LEUNG	RAMIE	
811	LEWIS	PHILLIP	W
812	LIBED	RUDOLFO	P
813	LIEN FAMILY SURVIVORS TRUST		
814	LIGGETT	MICHAEL	
815	LIM	CAMILA	L
816	LIM	SENG	MOV
817	LIMOS	LEONORE	C
818	LIN	MICHAEL	
819	LIN	TACHUNG	
820	LINDE	DONALD	L
821	LING	KWONG	S
822	LING LING FANG		
823	LIONG	LILLA	
824	LITTLE ROCK SAND AND GRAVEL INC		
825	LITTLEROCK CREEK IRRIGATION DIST		
826	LITTLEROCK SAND AND GRAVEL INC		
827	LIU	CHIH	CHUNG
828	LIU	SUH	JEN
829	LIZOTTE	SHIRLEY	
830	LLANDA	EDITH	A
831	LLOYD F AVERY TR		

832	LO	MAN	C
833	LO	SHIUNG	RU
834	LOCSIN	CARMELITA	N
835	LOCSIN	HILARIO	S
836	LOGUE	MARY	R
837	LOI	THANH	LE
838	LOLA R JOHNSON TRUST		
839	LOMBARDO FMLY REV LIV TR		
840	LONG DENG		
841	LOOKBAUGH	STEPHEN	C
842	LOPAC	THOMAS	A
843	LOPEZ	MARK	L
844	LOPEZ	OLIVIA	E
845	LOPEZ	VICTOR	M
846	LOS ANGELES COUNTY SANITATION		
847	LOS BANOS	BERNARD	
848	LOVEN	ROBERTA	
849	LOVING	ROBERT	A
850	LOWERY	CHARLES	W
851	LOWERY	NINA	M
852	LOYOLA MARYMOUNT UNIVERSITY		
853	LOZANO	JOSE	G
854	LOZANO	MARIA	T
855	LU	CLARK	DANNY C
856	LU	CLARK	C
857	LUBBERS	EVA	F
858	LUCERO	ROBERT	
859	LUCKY 360 INVESTMENTS LLC		
860	LUDOVICO	MARIA	C
861	LY	MIKE	
862	LYMAN	JANET	L
863	LYMAN	JANET	L
864	LYNCH	PATRICIA	L
865	LYON	ALICE	J
866	LYONS	CHRISTI	L
867	LYONS	JOHN	D
868	M14 DEVELOPMENT LLC		
869	MACADAEG	BERNADETTE	
870	MACE	JEANENNE	K
871	MACE	MARK	E
872	MACIAS	ANTONIO	
873	MACIAS	BENJAMIN	
874	MACIAS	MARTINA	
875	MADAN	S	K
876	MADAN	SHOBHANA	
877	MADRIGAL	ANTONIO	
878	MAGALONA	CECILIA	M
879	MAGEO	PALE	I
880	MAGLAYA	PATROCINIO	M
881	MAGLIANO	ROBERT	
882	MAGLIANO	ROSALIN	
883	MAGTAAS	ROLADO	G

884	MAK	VANNA	
885	MALAY	ANGELA	L
886	MALIT	NARCISO	G
887	MANAY	LORIE	
888	MANDAC	LUZVIMINDA	B
889	MANERY	DAVID	
890	MANNINO	CAROL	A
891	MANUEL	CHARITO	M
892	MANUEL	EUFEMIA	
893	MANUEL	RICHMOND	B
894	MANUEL	RICHMOND	
895	MANZO	CHARLES	J
896	MARAVICH	RUDOLPH	
897	MARCELO	MENANDRO	
898	MARCELO	OFELIA	
899	MAREE J DE LANO TR		
900	MARITORENA	JOSE	
901	MARITORENA LIVING TRUST		
902	MAROTTA	HELEN	P
903	MARQUEZ	ALFREDO	
904	MARQUEZ	MANUELA	
905	MARQUEZ	MARIA	
906	MARQUEZ	MARTIN	
907	MARSH	MARY	L
908	MARSH	RACHEL	E
909	MARSHALL	BYRN	HOWARD
910	MARTIN	ALMA	
911	MARTIN	ARTHUR	C
912	MARTIN	BARBARA	D
913	MARTIN	THOMAS	
914	MARTINEZ	FRANCISCO	J
915	MARTINEZ	JESUS	A
916	MARTINEZ	MARIA	D
917	MARTINEZ	ROBERT	L
918	MARTINS	ELSIE	
919	MARTINS	LAWRENCE	
920	MARTINS	LAWRENCE	
921	MASON	DAVID	S
922	MASON	DAVID	
923	MASON	FRANCES	H
924	MASON	KERRI	
925	MASON	MILDRED	
926	MASTERS	DONALD	L
927	MATA	ROSARIO	G
928	MATE	TERESITA AND	
929	MATSUI	JEANNE	
930	MATSUSHIMA	SUMIKO	
931	MATTHEWS	FULTON	L
932	MAURICE	MATTHEW	
933	MAXILOM	SHIRLEY	A
934	MAXWELL	CATHERINE	
935	MAZARIEGOS	GUSTAUO	

936	MAZARIEGOS	LINDA	
937	MC AVOY	AMY	M
938	MC AVOY	DOUGLAS	R
939	MC INTYRE	THOMAS	R
940	MC KAY	RAYMOND	E
941	MC LAREN	B	A
942	MC LAUGHLIN	BRIAN	M
943	MCALLISTER	RAE	K
944	MCANDREW	LORRAINE	R
945	MCCALMAN	JULIENNE	
946	MCCALMAN	WALTER	
947	MCCLAIN	LORETA	Y
948	MCCLINE	SUSAN	R
949	MCCOOL	FREDERICK	W
950	MCCOOL	RITA	
951	MCDOWELL	JERRIE	E
952	MCGAHAN	PATTY	J
953	MCNINCH	EDWIN	
954	MCNINCH	MARGARET	
955	MEDINA	JULIAN	
956	MEJIA	JUANA	L
957	MELLOW	LEONARD	
958	MENDOZA	ALFREDO	B
959	MENDOZA	CUAUHTEMOC	
960	MERRY	ROBERTA	
961	MESSIER	HERMINIA	
962	MESSIER	LEONARD	
963	METTLER VALLEY MUTUAL WATER CO		
964	MEYER	DAVID	B
965	MEYER	HANS	PETER
966	MEYER	IPBI	K
967	MEYER	IPBI	KIM
968	MEYER	LISA	
969	MEYER CREST LTD		
970	MEYER CREST LTR		
971	MIHARA	HISAO	
972	MIKEL	MOLLY	
973	MIKEL	SAM	
974	MILLER	JAMIE	
975	MILLER	LINDA	M
976	MILLER	NANCY	
977	MILLER	NANCY	
978	MILLER	RAYMOND	C
979	MILLER	RICHARD	D
980	MILLER	STEVEN	S
981	MINA	MARIA	D
982	MINA	ROLDAN	C
983	MINER	RICHARD	H
984	MINH	LIEU	NGOC VO
985	MINH	VAN	DINH
986	MIRANDA	SALVADOR	
987	MIRKAZEMI	MORTEZA	S

988	MIRKAZEMI	SUSAN	G
989	MISSION BELL RANCH DEVELOPMENT		
990	MITSUSHIMA	JANICE	C
991	MO	CHIUNG	H
992	MOENE	BJORN	
993	MOJAVE & TROPICO LLC		
994	MOLINA	CELINA	
995	MONARREZ	CANDICE	J
996	MONASEBIAN	FARSHAD	S
997	MONEDA	PATRICIO	A
998	MONFARED	SAEED	F
999	MONTEMAYOR	EUSEBIO	R
1000	MONTES	MARIA	I
1001	MOORE	JUDITH	ANNE
1002	MOORE	ROBERT	A
1003	MOORE	SHIRLEY	M
1004	MOORE	THOMAS	A
1005	MORALES	ELAINE	L
1006	MORENO	MICHAEL	P
1007	MORI	RITSUKO	
1008	MORRIS	JOHN	
1009	MOSES	MARY	L
1010	MOTAVVEF	FIROUZEH	B
1011	MOTAVVEF	MANSOOR	
1012	MOUGHALIAN	GIRARD	
1013	MOUGHALIAN	RENATE	
1014	MOWER	MARY	B
1015	MUDGETT	MARILYN	
1016	MULLINS	BRANDON	
1017	MULVENA	MAIA	L
1018	MUMFORD	DON	HAZEN
1019	MUNGIA	EMMA	G
1020	MUNGIA	EMMA	G
1021	MUNZ	BARRY	S
1022	MUNZ	DAN	W
1023	MUNZ	KATHLEEN	M
1024	MUNZ	REVA	R
1025	MURDOCK	BRONWYN	
1026	MURO	ESTELA	
1027	MURPHY	PATTY	A
1028	MURTAUGH SURVIVORS TRUST		
1029	MYERS FAMILY TRUST ET AL		
1030	MYUNG	DUK	Y
1031	MYUNG	HYUN	S
1032	NADWODNY	MARY	L
1033	NAIDITCH	GAY	E
1034	NAKAMICHI	SATOYE	
1035	NAKASHIMA	YOSHITO	
1036	NAKAWATASE	SHIZUKO	
1037	NAKAWATASE	YOSHITAKA	
1038	NANAMKIN	JIM	L
1039	NAPUTI	DAVID	A

1040	NATIONAL CEMENT CO OF CALIF		
1041	NATIONWIDE ASSET MANAGEMENT LP		
1042	NAVAL	CHARYL	Y
1043	NAVARRO	ALEJANDRA	
1044	NAVARRO	ANDREA	
1045	NAVARRO	FRANCISCO	B
1046	NAVARRO	JOSE	
1047	NAVARRO	MARTA	
1048	NEBEKER	EUGENE	B
1049	NELLIE TAPIA FAMILY TRUST		
1050	NELLIE TAPIA FMLY TR		
1051	NEMAN	SIMIN	
1052	NEWMAN	DORWIN	
1053	NEWMAN	SHIRLEY	
1054	NEWSOM FAMILY TRUST		
1055	NGO	BINH	
1056	NGUYEN	ANTHONY	L
1057	NGUYEN	DANNY	T
1058	NGUYEN	NGOC	A
1059	NGUYEN	NGUYET	M
1060	NGUYEN	SONNIE	H
1061	NGUYEN	THANH	M
1062	NIBBELINK FAMILY TR		
1063	NICHOLS	JUANITA	R
1064	NICHOLSON	GERARD	H
1065	NICHOLSON	MARIE	A
1066	NISHIDA	ERIC	M
1067	NISHIDA	ERIC	M
1068	NISSING	NEIL	
1069	NIXON	LYDIA	A
1070	NOEL	DIXIE	LEE
1071	NONA M RAFFERTY TRUST		
1072	NORTHROP GRUMMAN CORP		
1073	NORTHROP GRUMMAN SYSTEMS CORP		
1074	NOTERMAN	MARK	A
1075	NOTERMAN	YVETTE	M
1076	NOU	NANCY	M
1077	NOVELOSO	CIPRIANO	
1078	NOVELOSO	DOLORES	
1079	NOZAKI	HENRY	A
1080	NOZAKI	NAOMI	F
1081	NUSS	STEVEN	B
1082	NUTTER	MARY	A
1083	OBERG	MERLE	L
1084	OCONNOR	TIMOTHY	J
1085	OHTA	JESSIE	T
1086	OKAMOTO	KEIKO	
1087	OKAMOTO	MASAAKI	
1088	OKIHARA	HARUTO	
1089	OLIVAS	RICK	D
1090	OLSON FAMILY TR		
1091	OLSSON	BETTY	A

1092	OLSSON	JOHN	B
1093	ORARA	ADORACION	M
1094	ORARA	FRANCISCO	
1095	ORTEGA	PEDRO	O
1096	OSHIRO	DORIS	Y
1097	OSKOOI	FIROOZ	R
1098	OSSA	GUNTRAM	R
1099	OSSA	LIANE	D
1100	OWL PROPERTIES INC		
1101	PADDEN	BRETT	R
1102	PADGETT	CHARLENE	E
1103	PADGETT	ROY	B
1104	PADILLA	MARTA	
1105	PADILLA	PAZ	R
1106	PADUA	CLAIRE	M
1107	PAGDILAO	LEONIDA	P
1108	PALACIO	JULIO	
1109	PALACIO	LUZ	
1110	PALMDALE 1000 ASSOCIATES LLC		
1111	PALMDALE 5TH STREET WEST LLC		
1112	PALMDALE FAMILY HOUSING		
1113	PALMDALE HILLS PROPERTY		
1114	PALMDALE HILLS PROPERTY LLC		
1115	PALMDALE LODGING ASSOCIATES LLC		
1116	PALMDALE MOBILE FRANK LLC		
1117	PAQUIN	JOSEPH	R
1118	PAREDES	EUGENIO	
1119	PARK	CHOON	S
1120	PARK	INYOUNG	
1121	PARK	JEAN	C
1122	PARKER	HAROLD	B
1123	PARKER	JUEL	A
1124	PASTRANO	JOSE	D
1125	PATINO	SALLY	
1126	PAULING	ADRIAN	LEE
1127	PAYNE	CHARLES	A
1128	PAYNE	IMA	J
1129	PEARSON	DIANA	J
1130	PEARSON	DIANA	JO
1131	PEDENKO	LEO	
1132	PENA	VICENTA	A
1133	PEREIRA	MICHAEL	P
1134	PEREZ	ROSA	I
1135	PERRISEAU	KAREN	
1136	PERRISEAU	KAREN	L
1137	PERRISEAU	MARVIN	R
1138	PETERSEN PROPERTIES		
1139	PH ROSAMOND LLC		
1140	PHAM	THANG	DUC
1141	PHAN	MYLINH	
1142	PHILLIPS	ORRIN	
1143	PIANE	TOM	

1144	PIERATT	PAUL	M
1145	PIKE	ROBERT	
1146	PIWENITZKY	FRED	W
1147	PIWENITZKY	SACHIKO	
1148	PIZANO	ARTHUR	
1149	PIZANO	HERLINDA	
1150	PLEDGE INVESTMENT LLC		
1151	PLOYNGAM	TAVIL	
1152	POLLARD	PERLA	C
1153	POLLARD	ROBERT	A
1154	POMEROY	KIMBERLEY	
1155	POMEROY	KIMBERLY	A
1156	POMEROY	VANCE	
1157	POMEROY	VANCE	D
1158	POOLE FAMILY TR		
1159	PORCARI	DORA	A
1160	POULSEN	NORMAN	L
1161	POWELL	CHARLES	P
1162	PRATANTHIP	WARAYA	
1163	PROCIDA	ROMANO	
1164	PRODAN	BRUNO	
1165	PRODAN	ROSA	
1166	PVK FAMILY LIMITED PTN		
1167	QARMOUT	ELIAS	
1168	QUADIR	ABU	
1169	QUAN QUOC PHAM		
1170	QUANTUMCUE INC		
1171	QUESTIN	BELLA	S
1172	QUIGLEY		
1173	QUIGLEY	RACHEL	
1174	QUINLAN	MARY	R
1175	QWEST ENGINEERING INC		
1176	R AND M RANCH		
1177	RABENA	THEODORE	R
1178	RAGUINE	ARMANDO	M
1179	RAHGAN REAL ESTATE DEV CO		
1180	RALPHS	GAY	A
1181	RALPHS	RONALD	A
1182	RAMOS FAMILY TRUST		
1183	RAMPE	FRED	
1184	RANADA	FELICITAS	T
1185	RAWJEE	MAHMUD	
1186	RAZAVI	FEREIDOUN	
1187	RAZER	CLARENCE	L
1188	RAZER	JEAN	L
1189	REACH	JOAN	E
1190	RECA	JOHN	B
1191	REED	ROBERT	L
1192	REFF	BARBARA	
1193	REFF	HERBERT	
1194	REGALADO	RAY	Y
1195	REICH	FRED	

1196	REID	MARY	L
1197	REINOSO	EDGAR	
1198	RETZ	MAYME	E
1199	REYES	CONCEPCION	
1200	REYES	EFREN	
1201	REYES	ELIZABETH	
1202	REYES	ERNESTO	S
1203	REYES	VICENTE	
1204	REYNOLDS	CARLETON	
1205	REYNOLDS	OLIVIA	
1206	RHEE	SEI	C
1207	RHODA	SUSAN	M
1208	RHODEN	MICHELE	
1209	RICHARD A WHITE TRUST		
1210	RICHARD M LANG FAMILY TRUST		
1211	RICHARDS	MORRIS	D
1212	RICKETTS	RONALD	M
1213	RIDDLE	NANCY	J
1214	RIDER	ANITA	E
1215	RIGGINS	PATRICIA	J
1216	RIMANDO	FLORENCE	L
1217	RIMANDO	RUBEN	B
1218	RINALDI	MICHAEL	J
1219	RIOS	MARIA	T
1220	RIOS	NICOLAS	
1221	RIPPERDA	JOYCE	
1222	RIPPON	JAMES	
1223	RITTER	EDGAR	C
1224	RITTER	PAULA	E
1225	RIVERA	GEORGE	R
1226	RMG PROPERTY HOLDING FOUR LLC		
1227	RMG PROPERTY HOLDING TWO LLC		
1228	ROBBIE	DAVID	L
1229	ROBBIE	KINUE	REV
1230	ROBERSON	TRACY	A
1231	ROBERTSON	CHARLES	T
1232	RODARTE	ALBERT	
1233	RODRIGUEZ	CONCEPCION	
1234	RODRIGUEZ	GUADALUPE	
1235	RODRIGUEZ	IGNACIO	
1236	RODRIGUEZ	JOHN	M
1237	ROQUEMORE TR		
1238	ROSAMOND LAND TRUST		
1239	ROSEMOUNT EQUITIES LLC		
1240	ROSENBERRY	RUSSELL	F
1241	ROSENDALE	CRYSTAL	L
1242	ROSENDALE	STEPHEN	
1243	ROSENTHAL	ROBERT	
1244	ROSS REBAR CO INC		
1245	ROTTGERING	RICHARD	W
1246	ROWE	TRISHA	A
1247	ROWEN	MARSHALL	

1248	ROWLAND	MYRA	
1249	ROYAL INVESTORS GROUP		
1250	ROYAL INVESTORS GROUP LLC		
1251	ROYAL WESTERN PROPERTIES		
1252	ROYAL WESTERN PROPERTIES LLC		
1253	RUBENSTEIN	JAMES	
1254	RUFF	DORIS	E
1255	RUFF	EDWARD	L
1256	RUNDT	EDNA	V
1257	RUNKLE	DEWEY	R
1258	RUONA	LYNN	M
1259	RUOPP	FREDERICK	J
1260	RUSSELL	BERNA	
1261	RUSSELL	HELEN	B
1262	RUSTON	PATRICIA	
1263	RUSTON	TOM	F
1264	SACMAN	HERMOGENES	V
1265	SAITO	KATSUJI	
1266	SALAZAR	GABRIEL	
1267	SALEH	HOGER	R
1268	SALLEN	BETTY	
1269	SALLEN	JOSEPH	
1270	SALOMON	FRANKIE	H
1271	SAN DIEGO FRENCH AMERICAN		
1272	SANCHEZ	FRANCISCO	
1273	SANCHEZ	MARIA	F
1274	SANTANA	DIGNA	S
1275	SANTANA	PEDRO	
1276	SANTOS	GREGORIO	R
1277	SAPARZADEH	DANIEL	
1278	SAROMINES	JOSE	A
1279	SARRIS	GUSTAVE	
1280	SASAKI FAMILY TRUST 1995		
1281	SAUER	KAREN	
1282	SAY	AMY	Y
1283	SCATTAGLIA	FRANCES	
1284	SCATTAGLIA	FRANCES	M
1285	SCHAD	WILLIAM	O
1286	SCHAEFFER	ALICE	M
1287	SCHAEFFER	BUD	S
1288	SCHEMENAUER	STACY	J
1289	SCHILLING	LAWRENCE	
1290	SCHILLING	MARY	
1291	SCHIPPER	SYLVIA	J
1292	SCHLEGEL	JUDITH	A
1293	SCHLEGEL	STEPHEN	J
1294	SCHMIDT	HERMAN	A
1295	SCHOEPFLIN	HAZEL	E
1296	SCHOEPFLIN	NIEL	
1297	SCHULTE	JOHN	L
1298	SCHULTZ	PHILIP	
1299	SCIDMORE	BETTY	

1300	SCOTT	ROBERT	D
1301	SCRUGGS	PATRICIA	L
1302	SCS FAMILY LIMITED PARTNERSHIP		
1303	SEGROVE	HENRY	H
1304	SEIBERT	FLORENCE	G
1305	SELLSITE & UNITED LLC		
1306	SELNICK	ALVIN	A
1307	SEMERAU	DEWILLO	F
1308	SEMOTAN	CARL	W
1309	SERVICE ROCK PRODUCTS CORP		
1310	SEVEN STAR UNITED LLC		
1311	SEXTON	RALPH	F
1312	SF PACIFIC PROPERTIES INC		
1313	SHADD	EUGENIA	
1314	SHAKIB	KAMRAM	S
1315	SHANNON	WILLIAM	J
1316	SHEARER	CATHERINE	L
1317	SHEARER MARITAL TRUST		
1318	SHELTON	EDWARD	W
1319	SHERMAN	EARNEST	G
1320	SHIBUYA	HAJIME	
1321	SHIBUYA	KYOKO	
1322	SHIMABUKURO	LUPE	
1323	SHIMABUKURO	RODNEY	
1324	SHIMIZU	YOSHIAKI	
1325	SHIMOMURA	SHOGO	
1326	SHIU	ALVES	
1327	SHLOMI	BENJAMIN	
1328	SHOKRI	BEHROUZ	
1329	SHOKRI	FARIBA	
1330	SHOKRIAN	ELLIAS	
1331	SHOKRIAN	SHIRLEY	
1332	SIAM INV CORP		
1333	SIAM INVESTMENT CORP		
1334	SICAT	LOLITA	D
1335	SICCAMA	JAKOB	K
1336	SIEBERT	JEFFREY	L
1337	SIEBERT	NANCEE	J
1338	SIERRA GATEWAY RESOLUTION LLC		
1339	SIMON	EDWARD	B
1340	SIMPSON	DONNA	L
1341	SIMPSON	GARETH	L
1342	SIMS	TAFFIE	J
1343	SIMS	THEODORE	H
1344	SINGH	GORA	
1345	SINGH	TINA	C
1346	SIREX	LESLIE	A
1347	SIVILLE	ESTHER	M
1348	SIVILLE FAMILY TRUST		
1349	SKAGGS	CHARLES	R
1350	SKAGGS	REBECCA	S
1351	SKIADAS	GEORGETTE	

1352	SKINNER	CHARLES	
1353	SKINNER	SHARREN	
1354	SMALL	FRANK	A
1355	SMEJKAL	EUGENE	F
1356	SMITH	CHONG	H
1357	SMITH	JAMES	C
1358	SMITH	LARRY	A
1359	SMITH	PATRICIA	A
1360	SMITH	ROBERT	WAYNE
1361	SMUTZ	GLEN	R
1362	SNEED	ODIS	
1363	SOARING VISTA PROPERTIES INC		
1364	SONG	MI	R
1365	SORRENTO WEST PROPERTIES INC		
1366	SOTEROPOULOS	KONSTANTINOS	
1367	SOTO	JUAN	M
1368	SOUTH	JAMES	T
1369	SOUTHCOTT	BERNEICE	B
1370	SOUTHERN CA EDISON CO		
1371	SOUTHERN CALIFORNIA EDISON		
1372	SOVICH	EDWARD	S
1373	SOWERSBY	KIM	
1374	SPERLING	FRANCIS	F
1375	SSERUNKUMA	DAVID	
1376	ST JUDES RANCH FOR CHILDREN INC		
1377	STADLER	VIRGINIA	
1378	STAMBACK	LINDA	
1379	STATHATOS	HELEN	
1380	STATHATOS	SAVAS	
1381	STENBERG	COLUMBIA	M
1382	STENERSON	ALAN	G
1383	STEPHENSON	DEBORAH	
1384	STERKEL	TERESITA	C
1385	STERN	ELEANOR	
1386	STERN	JOHN	
1387	STERNBERG	RICHARD	R
1388	STIPANCIC TR		
1389	STONE	BRIAN	P
1390	STOVER	LOIS	A
1391	STRAWMYER	CLEO	P
1392	STREMEL	WILMA	M
1393	STUBNER	STEVE	J
1394	STURM	GUZEL	
1395	SU	JOHN	
1396	SUGARMAN	JORDAN	M
1397	SUGARMAN	RUTH	G
1398	SULPACIO	CARMELITA	C
1399	SULPACIO	ROMEO	R
1400	SUMMERS	EUGENE	W
1401	SUMMERS	JUANITA	B
1402	SUMMERS	QUEENIE	
1403	SUN	CHRISTOPHER	S

1404	SUN	JOHN	S
1405	SUNJKA	FRANA	
1406	SUNJKA	JOSEPH	
1407	SUNLIGHT TOWNHOME LLC		
1408	SUPA	LENNY	C
1409	SUPERMED HEALTH INC		
1410	SWEIS	FADIA	M
1411	SWEIS	SAMIR	S
1412	SZETO	ETHEL	
1413	T L SQUARED LLC		
1414	TAFT	ALAN	R
1415	TAFT	TERIANNE	N
1416	TAKAGI	TAKASHI	
1417	TAKASHITA	REIKO	
1418	TALLEY	GROVER	L
1419	TAM	HERBERT	H
1420	TAMAYO	CRES	S
1421	TAMAYO	MACARIO	S
1422	TAN	CORAZON	D
1423	TAN	FIDELINO	M
1424	TANAKA	ALICE	T
1425	TANAKA	ROY	T
1426	TANIGUCHI	JOHN	M
1427	TANIGUCHI	ROBIN	LEE
1428	TAO	CHI-KWANG	
1429	TAO	TING-NING	
1430	TAPIA	GEORGE	
1431	TAYLOR	F	CATHERINE
1432	TAZMAN		
1433	TEJON RANCH CO		
1434	TEJON RANCHCORP		
1435	TEJON RANCHERO LAND CO LLC		
1436	TEJON RANCHO CO		
1437	TERAYAMA	SADAKO	M
1438	TERUYA	FUMIO	
1439	TERUYA	HISAKO	
1440	TESTA	NICHOLAS	J
1441	THOMPSON	LARRY	L
1442	THOMPSON	LARRY	L
1443	THOMPSON	MARY	A
1444	THOMPSON	WILLIAM	A
1445	THORNTON	LYDIA	N
1446	THORNTON	LYDIA	
1447	THORNTON	ROBERT	S
1448	THORNTON	ROBERT	
1449	THREE ARKLIN LLC		
1450	THROAT APPLES INC PROFIT SHARING		
1451	THYRA RETZKE FAMILY TRUST		
1452	TICHAUER	RONALD	
1453	TIENDAS	LOUISE	
1454	TIENDAS	TERTIUS	A
1455	TIERRA BONITA RANCH COMPANY		

1456	TING	CHIANG	CHANG
1457	TITLE	INSURANCE	
1458	TITLE INS AND TR CO		
1459	TIVENS	LYNN	B
1460	TKATCH	IVAN	O
1461	TOBIAS	BEVERLY	J
1462	TOBIN	ARTHUR	
1463	TOBIN	HILDA	B
1464	TODAY INVESTMENT GROUP LLC		
1465	TOMEI	ALICE	A
1466	TOMEI	RALPH	Y
1467	TOMKIEWICZ	GLEN	R
1468	TOMKIEWICZ	JILL	C
1469	TOMLINSON	BENNY	N
1470	TORRES	DALISAY	S
1471	TORRES	EDILBERTO	C
1472	TORRES	NERIO	
1473	TORRES	SHIRLEY	D
1474	TORRES	VICTOR	J
1475	TORREZ	DONATO	
1476	TOVAR	FELIPE	P
1477	TRAN	HUYNH	V
1478	TRAN	JEANNIE	N
1479	TREACY	PATRICK	J
1480	TREMBLAY	SHARON	
1481	TROCHIM	EMMA	
1482	TROCHIM	WALDEMAR	
1483	TRUONG	JENNY	P
1484	TSEN	LIU FANG	
1485	TSUHAKO	GAIL	S
1486	TSUHAKO	JOHN	I
1487	ULAT	ARTHUR	T
1488	ULAT	ELDENA	R
1489	UNFRIED	RICHARD	H
1490	UNISON INVESTMENT COMPANY LLC		
1491	UONG	HOA	
1492	UPDEGRAFT	JERRY	P
1493	URBAN	LESLIE	
1494	USA GOLDEN LAND INVESTMENT LLC		
1495	USHIGOME	CIV	K
1496	UYEHARA	AMELIA	T
1497	UYEHARA	EDDIE	K
1498	VAHAN	ELLEN	T
1499	VALDEZ	ELPIDIO	O
1500	VALENTINE	ROLAND	M
1501	VAN DAM	CRAIG	
1502	VAN DAM	CRAIG	A
1503	VAN DAM	DELMAR	
1504	VAN DAM	DELMAR	D
1505	VAN DAM	GARY	L
1506	VAN DAM	GARY	
1507	VAN DAM	GERTRUDE	

1508	VANCE	EVANGELINE	S
1509	VANDERGROEN	DONNA	L
1510	VANDERGROEN	RONALD	E
1511	VARELA	VICTOR	
1512	VAUGHN	DANNY	M
1513	VELCHEZ	GIL	V
1514	VELCHEZ	LOLITA	A
1515	VELUR PROPERTIES LLC		
1516	VICARI	CRISPINO	
1517	VICENS	ISAIAS	V
1518	VILLAGOMEZ	BERTHA	
1519	VILLARENTE	NORMA	G
1520	VILLARUEL	PERFECTO	M
1521	VILLEGAS	DORIS	
1522	VILLEGAS	GREGARIO	
1523	VILORIA	MARGARITA	G
1524	VILT	EDWARD	E
1525	VIRTUE	RODGER	
1526	VISITACION	DANNY	
1527	VISITACION	SALLY	J
1528	VONBORCKE	RICHARD	
1529	VONDRA	ELISA	K
1530	VONDRA	JAMES	L
1531	VULCAN LANDS INC		
1532	WADE	ROBERT	L
1533	WAGAS LAND COMPANY		
1534	WAKEHAM	BARBARA	P
1535	WALDEN	DANIEL	C
1536	WALKER	CECIL	
1537	WALKER	GRACE	
1538	WALLACE	PATRICIA	
1539	WALLACE	WILLIAM	
1540	WANG	JOSEPHINE	
1541	WANG	LUCY	B
1542	WANG	WONG	YUH-HUA
1543	WARM SPRINGS INVESTMENTS LTD		
1544	WARMINGTON	WILLIAM	
1545	WARNACK	A	C
1546	WARNACK	A	C
1547	WARNER	JAMES	L
1548	WARNER	LEIGH	J
1549	WATSON	AMY	S
1550	WEAVER	ELIZABETH	C
1551	WEBB	GEORGE	O
1552	WEBB TRUST		
1553	WEBB TRUST		
1554	WEI	CECILIA	
1555	WEI	CHUNG	H
1556	WEI	SUHMEI	L
1557	WEST	IVAL	V
1558	WHEATON	RICHARD	
1559	WHICHER	LAURIE	S

1560	WHICHER	LAURIE	S
1561	WHITE	BETTY	J
1562	WHITE	EDWARD	A
1563	WHITE	JAMES	E
1564	WHITE	LORETTA	M
1565	WHITE	RICHARD	A
1566	WHITE	VIVIAN	L
1567	WHITE	WALT	
1568	WHITTAKER	JOSEPH	L
1569	WILCOX	GARY	J
1570	WILLIAMS	CYNTHIA	JEAN
1571	WILLIAMS	RONLLD	
1572	WILLIAMS FMLY TR		
1573	WILSON	DONALD	D
1574	WILSON	HARRY	Z
1575	WILSON	MARIE	J
1576	WILSON FAMILY TR		
1577	WINDHAM	WALTER	
1578	WINKLER	DONALD	D
1579	WINKLER	SUSAN	H
1580	WINTERS	THERESA	
1581	WKR360-6 LLC		
1582	WLOCZYK	HEATWIG	B
1583	WOLFE	MARGARET	J
1584	WOLFE	OTIS	V
1585	WONG	GARY	ALAN
1586	WONG	JOHNNY	
1587	WONG	MAI	T
1588	WONNELL	KAREN	E
1589	WOOD FAMILY TR		
1590	WOODALL	ROBERT	M
1591	WOODWARD	RUSSELL	G
1592	WRAY	MARY	
1593	WRIGHT	EMIKO	T
1594	WRIGHT	ROBERT	R
1595	WU	MIKE	M
1596	YAGO	ANTONIO	
1597	YAMADA	GRACE	
1598	YANEZ	MARIA	F
1599	YANG	WENDY	
1600	YANKOVICH	JOSEPH	E
1601	YEH	VIVIAN	HWA
1602	YEOMANS	MONICA	A
1603	YIN	TAMMY	P
1604	YOSHINO	BARNEY	
1605	YOUNG	CARLOS	A
1606	YOUNG	JULIE	Y
1607	YOUNG	KIM	J
1608	YU	BOB	H
1609	YU	KYU	S
1610	YU	ROGER	
1611	YUNG	BRIAN	

1612	YUNG	LINCOLN	CHU KUEN
1613	ZEDICHER	CORAL	K
1614	ZEDICHER	DONALD	L
1615	ZHAN	HAO	
1616	ZIMMERMAN	STANLEY	M
1617	ZUCKER	MILTON	O
1618	ZUCKER	NATALIE	V
1619	ZUMEL	ELENA	
1620	ZUMEL	RICHARD	
1621	ZWINGER	CHARLOTTE	

Exhibit 2

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Superior Court of the State of California

County of Los Angeles

ANTELOPE VALLEY GROUNDWATER CASES This Pleading Relates to Included Action: REBECCA LEE WILLIS, on behalf of herself and all others similarly situated, Plaintiff, v. LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF LOS ANGELES; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICES DISTRICT; and DOES 1 through 1,000; Defendants.	JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408 Case No. BC 364553 **WILLIS CLASS STIPULATION OF SETTLEMENT**

This Stipulation of Settlement (the "Stipulation" or "Agreement") is entered into this 13th day of July 2010 by and between California Water Service Company, City of Palmdale, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 ("District 40"), Palmdale Water District, Palm Ranch Irrigation District, Phelan Pinon Hills Community Services District, Quartz Hill Water District, and Rosamond Community Services District, Desert Lake Community Services District and North Edwards Water District (collectively, "Settling Defendants"), on the one hand, and Rebecca Lee Willis and the Willis Class (as more fully defined below), which consists of certain persons who own property(ies) that overly the Antelope Valley Groundwater Basin (the "Basin") on which they do not and have not pumped groundwater, on the other hand. Settling Defendants, Rebecca Lee Willis, and the Willis Class are collectively referred to as the "Settling Parties," or individually a "Settling Party." This Stipulation and the Exhibits hereto set forth the terms of a settlement (the "Settlement") between and among the Settling Parties compromising and dismissing the claims and defenses they have asserted in the above-captioned action. The Settlement is subject to approval by the Superior Court of California for Los Angeles County; in the event such approval is denied, cannot be obtained, or is reversed on appeal, this Stipulation shall have no further force or effect, and the Settling Parties shall be returned to their respective positions in the litigation prior to execution of this Stipulation.

I. THE SETTLING PARTIES

A. The Settling Plaintiffs are Rebecca Lee Willis and the members of the Willis Class, as defined in paragraph II, D below.

B. The Settling Defendants are as follows:

1. California Water Service Company is a California corporation which extracts groundwater from the Basin to serve customers within the Basin.

2. The City of Palmdale is a municipal corporation in the County of Los Angeles which receives water from the Basin.

3. Littlerock Creek Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

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4. Los Angeles County Waterworks District No. 40 ("District 40") is a public agency governed by the Los Angeles County Board of Supervisors. District 40 has been lawfully organized to perform various functions, including producing water from the Basin, which it provides to more than 65,000 residential and commercial customers in the Basin.

5. Palmdale Water District is an irrigation district organized and operating under Division 11 of the California Water Code, which produces groundwater from the Basin to serve customers within the Basin.

6. Palm Ranch Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

7. Rosamond Community Services District is a public agency which produces water from the Basin which it provides to customers within the Basin.

8. Quartz Hill Water District is a county water district organized and operating under Division 12 of the California Water Code. It produces water from the Basin.

9. Phelan Pinon Hills Community Services District is a public water supplier which produces water from the Basin.

10. Desert Lake Community Services District is a public agency which produces groundwater from the Basin.

11. North Edwards Water district is a public agency which produces groundwater from the Basin.

II. RECITALS

A. On or about November 29, 2004, District 40 commenced a civil action against Overlying Owners (more specifically defined in III. M) in the Basin, which is now pending in the Superior Court for Los Angeles County, seeking, inter alia, an adjudication of their respective rights to produce groundwater from the Basin. On or about July 11, 2005, that case was coordinated with several quiet title actions that had been brought by Basin landowners, which also sought a declaration of the parties' rights to produce and use the Basin's groundwater. Antelope Valley Groundwater Cases, No. 1-05-CV049053 (JCCP 4408) (hereinafter the "Coordinated Actions"). The Coordinated Actions are pending before the Honorable Jack Komar.

B. On or about October 10, 2006, the Court held an initial phase of trial with respect to the boundaries of the Basin. The Court issued an Order on November 3, 2006, defining the Basin for purposes of this litigation.

C. On or about January 11, 2007 Plaintiff, Rebecca Lee Willis ("Willis"), filed a class action complaint in the Superior Court of the State of California for Los Angeles County (No. BC 364553) (the "Willis Action") in which she alleged that certain Public Water Suppliers had wrongfully claimed prescriptive rights to the Basin's groundwater. Willis sought, inter alia, a declaration that the Settling Defendants had not obtained prescriptive rights as to her or Willis Class Members (more specifically defined in III.X). On or about April 10, 2007, the Willis Action was coordinated as part of the Coordinated Actions.

D. By Order dated September 11, 2007 (as amended by Orders dated May 22, 2008 and September 2, 2008), the Court certified Willis as the representative of a Class of certain Overlying Owners (more specifically defined in if III.M. below) pursuant to Section 382 of the California Code of Civil Procedure and Division 7, Chapter 6 of the Rules of Court.

E. In early January 2009, Notice of the Pendency of the Willis Action was sent by first class mail to all Willis Class Members (more specifically defined in III.X below) who could be identified with reasonable effort and a summary notice was published. The deadline for putative Willis Class Members to exclude themselves (as extended) expired on August 30, 2009. The Court has made various orders allowing certain parties to rejoin the Willis Class.

F. The Settling Parties have actively discussed potential settlement for much of this year. On or about September 2, 2009, the Settling Parties engaged in mediation before the Honorable Ronald Robie during the course of which counsel for most of the parties reached an agreement in principle to settle the Willis Action, subject to the negotiation of a final settlement agreement, client approvals, and approval by the Court.

G. On or about February 19, 2010, the Court entered an Order Transferring and Consolidating Actions for All Purposes (hereinafter the "Consolidated Actions").

H. Over the course of the last three years, the Settling Plaintiffs' counsel have conducted a thorough investigation of the facts and law relating to the matters at issue in the

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Consolidated Actions and have evaluated the merits of all Settling Parties' contentions and the impact this Settlement will have on the Willis Class Members. After evaluating the foregoing, the Settling Plaintiffs and counsel are satisfied that the terms and conditions of this Stipulation are fair, reasonable, and adequate, and that the Settlement is in the best interest of the Willis Class Members.

I. The Settling Defendants contend that they have prescriptive rights to substantially more than 15% of the Basin's Native Safe Yield. The Settling Plaintiffs contend that the Settling Defendants have no such prescriptive rights as to them. This Settlement reflects a compromise between the Settling Parties and shall not (1) be construed as an admission or concession by any Settling Party of the truth of any allegation or the validity of any claim or defense asserted in any of the pleadings, (2) be construed to prejudice the rights, claims, or defenses of any persons who are not Settling Parties, or (3) be construed to prejudice the rights, claims, or defenses (whether asserted or potential) of any Settling Party vis-à-vis any non-settling party.

J. The United States owns property within the Basin as to which it claims a Federal Reserved Right to produce groundwater.

III. DEFINITIONS

The following terms used in this Stipulation shall have the meanings set forth below:

A. "Assessments" means any monetary or other levy or charge imposed as part of a Physical Solution.

B. "Basin" means the Antelope Valley Groundwater Basin as defined in the Court's Order of November 3, 2006.

C. "Consolidated Actions" means all actions that have been or subsequently were coordinated as part of Judicial Council Coordination Proceeding No. 4408 and all actions that have been or subsequently were consolidated pursuant to the Court's Order from February 19, 2010.

D. "Correlative Rights" means the principle of California law, articulated in Katz v. Walkinshaw (1903) 141 Cal. 116 and subsequent cases, that Overlying Owners may make reasonable and beneficial use of the water in a Basin and that, if the supply of water is insufficient

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for all reasonable and beneficial needs, each Overlying Owner is entitled to a fair and just proportion of the water available to the Overlying Owners.

E. "Court" means the Honorable Jack Komar, sitting by designation as a Judge of the Superior Court of Los Angeles County or such other Judge as may be designated by the Judicial Conference to hear JCCP No. 4408.

F. "Effective Date" means the date on which the Court's Judgment granting final approval to the Settlement becomes final and not subject to further appeal.

G. "Federal Reserved Right" is the principle originally articulated in Winters v. United States (1908) 207 U.S. 564 and more recently in *Cappaert v. United States* (1976) 426 U.S. 128, which holds that when the Federal Government reserves land from the public domain, it impliedly reserves sufficient water to serve the purposes for which the lands were reserved, and the quantity of reserved water is limited to the amount necessary to fulfill the purposes of the reserved land. The United States contends that the Federal Reserved Right entitles the United States to a prior and paramount right to a portion of the Native Safe Yield.

H. "Federally Adjusted Native Safe Yield" for any given year means the Basin's Native Safe Yield less the actual annual production of the United States' during the prior year pursuant to its Federal Reserved Right.

I. "Final Judgment" means a final judgment to be entered by the Court in the above matter, which approves the terms and provisions of this Stipulation, and is substantially in the form attached hereto as Exhibit A.

J. "Imported Water" means water that enters the Basin and that originates outside the Basin that is not part of the Basin's Native Safe Yield, and that, absent human intervention, would not recharge or be used in the Basin. Imported Water does not include water purchased by the Watermaster with Replacement Assessments or bottled water.

K. "Native Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions, generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin, results in no long-term depletion of

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Basin groundwater storage. Pumping of the Settling Parties' share of Native Safe Yield is not subject to any Replacement Assessment.

L. "Overlying Right" means the appurtenant right of an Overlying Owner to use groundwater from the Native Safe Yield for overlying reasonable and beneficial use.

M. "Overlying Owners" means owners of land overlying the Basin who hold an Overlying Right.

N. "Physical Solution" means a mechanism that comprehensively resolves the competing claims to the Basin's water and provides for the management of the Basin. The Settling Parties anticipate that this Settlement will later be incorporated into a Physical Solution.

O. "Preliminary Approval Order" means the Court's Order granting preliminary approval to the Settlement set forth herein, directing the manner in which notice of the Settlement shall be provided to the Willis Class, and scheduling a final Hearing for the Court to consider whether to approve the Settlement. The Settling Parties will submit a proposed Preliminary Approval Order in the form appended as Exhibit B hereto.

P. "Recycled Water" means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource..

Q. "Replacement Assessment" means the charge imposed on any Settling Party by the Watermaster for producing more water than it is entitled to produce from the Basin under the terms of this Settlement or pursuant to such further orders as the Court may enter in the Coordinated Actions.

R. "Replacement Water" means water purchased by the Watermaster to offset production in excess of a Settling Party's share of Total Safe Yield.

S. "Return Flows" means the amount of water that is put to reasonable and beneficial agricultural, municipal or other use and thereafter returns to the Basin and is part of the Basin's Total Safe Yield.

T. "Settlement" means this Stipulation, including the Exhibits appended hereto.

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U. "Total Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin and Return Flows derived from Imported Water, results in no long-term depletion of Basin groundwater storage.

V. "Transition Period" means the period of time provided for in the Physical Solution during which the parties' right to produce water from the Native Safe Yield free from Replacement Assessment will decrease to amounts that total no more than that party's share of Native Safe Yield.

W. "Watermaster" means the person or entity appointed by the Court to monitor and manage the Basin's groundwater, subject to oversight by the Court.

X. "Willis Class" or "Willis Class Members" means the Willis Class as defined in the Court's Order of September 11, 2007, as amended by the Court's Orders of May 22, 2008, and September 2, 2008, but shall exclude all persons who timely excluded themselves from the Willis Class and have not rejoined the Willis Class. The Willis Class consists of the following:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as `improved' by the Los Angeles County or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties."

IV. SETTLEMENT TERMS

In consideration of the covenants and agreements set forth herein, and of the releases and dismissals described below, the Settling Parties agree to settle and compromise the claims that have been asserted or that could have been asserted between and among the Willis Class and the

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Settling Defendants, subject to Court approval, on the following terms and conditions:

A. Native Safe Yield.

Settling Defendants and the United States contend that the best estimate of the Basin's Native Safe Yield is 82,300 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest the Native Safe Yield proposed by the Settling Defendants as long as it is at least 82,300 acre-feet per year. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Native Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

B. Total Safe Yield.

The Settling Defendants contend that the best estimate of the Basin's Total Safe Yield is 110,500 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest that estimate. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Total Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

C. Federal Reserved Right.

The United States contends that it is entitled to a Federal Reserved Right. The Settling Parties agree that the Federal Government has a Federal Reserved Right to use a portion of the Native Safe Yield. The Settling Parties agree that the Court will decide the amount of the Federal Reserved Right and they agree to be bound by the Court's determination.

D. Allocation Of Federally Adjusted Native Safe Yield.

The Settling Parties agree to be bound by the Court's determination of the amounts of the Basin's Native Safe Yield and the United States' Federal Reserved Right. The Basin's Federally Adjusted Native Safe Yield shall be the Basin's Native Safe Yield less the prior year's production of water by the United States (not to exceed the Federal Reserved Right). The Settling Parties agree that the Settling Defendants and the Willis Class Members each have rights to produce groundwater from the Basin's Federally Adjusted Native Safe Yield.

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1. Settling Defendants' Water Rights

Settling Defendants have asserted in the Coordinated Actions that they have obtained prescriptive rights to the Basin's Native Safe Yield. This Stipulation shall neither be construed to recognize prescriptive rights nor to limit the Settling Defendants' prescriptive claims vis-a-vis the Basin or any non-settling parties, but rather as an agreement to fairly allocate the Settling Parties' respective rights to use the Basin's water. The Settling Parties agree that the Settling Defendants collectively have the right to produce up to 15% of the Basin's Federally Adjusted Native Safe Yield free of any Replacement Assessment. The Willis Class will not take any positions or enter into any agreements that are inconsistent with the exercise of the Settling Defendants' rights.

2. Willis Class Members' Pumping Rights

The Settling Parties agree that the Willis Class Members have an Overlying Right to a correlative share of 85% of the Federally Adjusted Native Safe Yield for reasonable and beneficial uses on their overlying land free of any Replacement Assessment. The Settling Defendants will not take any positions or enter into any agreements that are inconsistent with the exercise of the Willis Class Members' Overlying Right to produce and use their correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield.

a. Safe Harbor.

The Willis Class Members acknowledge that the Settling Defendants may at trial prove prescriptive rights against all groundwater pumping in the Basin during a prior prescriptive period. If the Settling Defendants do prove prescriptive rights, Settling Defendants shall not exercise their prescriptive rights to diminish the Willis Class Members' Overlying Right below a correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield. If the Settling Defendants fail to prove any prescriptive rights, this Agreement shall not diminish at all the rights of Willis Class Members to make reasonable and beneficial use of a correlative share of the Basin's Federally Adjusted Native Safe Yield. In no event shall this Agreement require the Willis Class Members to give to the Settling Defendants more than 15% of any rights to use the Basin's groundwater that they may obtain by way of settlement or judgment. If there is a subsequent Court decision whereby the Court determines that the Willis Class Members do not

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have Overlying Rights, this Agreement shall not require Settling Defendants to give the Willis Class Members any right to pump from the Native Safe Yield.

3. Correlative Rights Of Overlying Landowners

The Willis Class Members recognize that other Overlying Owners may have the right to pump correlatively with them 85% of the Federally Adjusted Native Safe Yield of the Basin for reasonable and beneficial uses on their overlying land.

4. Return Flows From Imported Water

a. The Settling Parties acknowledge and agree that they all have the right to recapture Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin, consistent with California law. The Settling Parties will not be subject to any Replacement Assessment for their production of an amount equal to the Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin.

b. Settling Defendants believe that the best estimates of Return Flows from Imported Water are (a) 25% of the water used for agricultural purposes and (b) 28% of the water used for municipal and industrial purposes. Settling Defendants further believe that the best estimate of total annual Return Flows from Imported Water is 28,200 acre-feet of which 25,100 acre-feet is from municipal and industrial use and 3,100 acre-feet is from agricultural use. The Willis Class agrees not to contest those estimates, and all Settling Parties agree to be bound by any findings that may later be made by the Court with respect thereto.

V. MANAGEMENT OF THE BASIN

A. General

The Settling Parties agree that the Basin has limited water resources and that they should use their best efforts to conserve and maximize reasonable and beneficial use. The Settling Parties further agree that there is a need to create a groundwater management plan to ensure that pumping from the Basin does not exceed the Basin's Total Safe Yield and that the Court should appoint a Watermaster to oversee the management of the Basin's water resources.

B. Physical Solution

The Settling Parties expect and intend that this Stipulation will become part of a Physical

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Solution entered by the Court to manage the Basin and that the Court will retain jurisdiction in the Coordinated Actions. The Settling Parties agree to be part of such a Physical Solution to the extent it is consistent with the terms of this Stipulation and to be subject to Court-administered rules and regulations consistent with California and Federal law and the terms of this Stipulation. The Settling Parties agree that the Physical Solution may require installation of a meter on any groundwater pump by a Willis Class Member before a Willis Class Member may produce groundwater. The responsibility for the cost of such meters will be determined by the Court.

C. Transition Period.

The Settling Parties agree that net groundwater production from the Basin needs to be reduced over a period of time from current levels to no more than the Basin's Total Safe Yield. This can be accomplished by reducing pumping and/or purchasing Replacement Water. The Settling Parties agree that the Transition Period should begin at the date of entry of Final Judgment in the Coordinated Actions and should last seven years. During the first two years of the Transition Period no effort will be made to curtail groundwater pumping and no Replacement Assessments will be made. By the end of the seventh year of the Transition Period, groundwater pumping from the Basin without Replacement Assessment for Replacement Water will not exceed the Native Safe Yield.

D. Replacement Water.

The Settling Parties recognize the right of any Settling Party to produce groundwater from the Basin above their share of the Native Safe Yield, subject to the Physical Solution and to any Replacement Assessment. The Settling Parties agree to provide or purchase Imported Water for all groundwater pumping that exceeds a Settling Party's share of the Federally Adjusted Native Safe Yield. The Settling Parties agree that any Settling Party who produces more than its annual share of the Federally Adjusted Native Safe Yield in any year will be responsible to provide Replacement Water or pay a Replacement Assessment to the Watermaster so that the Watermaster can purchase Imported Water to recharge the Basin.

E. Water Storage

The Settling Parties agree that water storage in the Basin offers significant benefits and

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should be encouraged. The Settling Parties further recognize that there is a limit on the Basin's available storage space and that the storage of water for uses within the Basin should have priority over storage for use outside the Basin. Subject to those general principles, the Settling Parties agree that water storage should be permitted and encouraged and agree to support appropriate provisions in the Physical Solution.

F. Recycled Water

The Settling Parties agree that it is important to encourage the treatment and use of Recycled Water. The Willis Class agrees not to challenge or otherwise contest Settling Defendants' claims to Return Flows from Recycled Water that was reclaimed by the Sanitation Districts of Los Angeles County.

VI. PROCEDURES FOR CLASS NOTICE AND HEARING ON MOTIONS FOR PRELIMINARY AND FINAL APPROVAL OF STIPULATION

A. Preliminary Approval Motion and Settlement Notice.

Settling Plaintiffs shall file a motion for preliminary approval ("Preliminary Approval Motion") of the terms of the Settlement as soon as practicable following execution of this Stipulation by all Settling Parties. The Preliminary Approval Motion will seek entry of an Order Preliminarily Approving Class Action Settlement. The Preliminary Approval Motion shall include a proposed form of notice describing this Stipulation (the "Settlement Notice") to be disseminated to the Willis Class as well as a description of the procedures to be used in disseminating the Settlement Notice. The Settlement Notice shall be disseminated to all Willis Class Members by or under the supervision of counsel for District 40, with the expenses to be borne by District 40. The Settling Parties will attempt to agree upon the language for the Settlement Notice, but agree to be bound by the Court's determination in the event they have any disputes or disagreements in that regard. The Settling Parties agree to use their best efforts to have the Preliminary Approval Motion heard as promptly as is practical.

B. Final Approval Hearing.

The Settlement Notice will advise Willis Class Members of the date and time set for a Hearing on the Settling Plaintiffs' Motion for Final Approval of the Stipulation, including

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advising them of their rights to submit statements in support of or opposition to the Stipulation. The Final Approval Motion shall request that this Court find that the Stipulation and Proposed Final Judgment are fair, reasonable, and adequate to the Willis Class and shall seek entry of a Final Judgment substantially in the form attached hereto as Exhibit A.

VII. RELEASES AND DISMISSALS

A. Release By Settling Plaintiffs

1. In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Section VIII, Paragraph G of this Stipulation, and in consideration for the settlement consideration set forth above, and for other valuable consideration, the Settling Plaintiffs shall completely release, acquit and forever discharge the Settling Defendants from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Plaintiffs, or each of them, ever had, now has, or hereafter can, shall, or may have on account of or in any way arising out of, any and all known or unknown, foreseen or unforeseen, suspected or unsuspected injuries, damages, and the consequences thereof in any way arising out of or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Plaintiff may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Plaintiff hereby expressly waives and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts. As provided in the Release set forth above, the Settling Plaintiffs, including any of Settling Plaintiffs' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

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2. The Release set forth in Paragraph VII.A, above, does not include claims by any of the Settling Plaintiffs other than the claims set forth therein. In particular, the Settling Parties recognize that many persons own more than one parcel of land within the Basin. The foregoing Release only binds Willis Class Members and only with respect to those properties within the Basin on which they have not pumped water.

B. Release By Settling Defendants

In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Paragraph VIII.G of this Stipulation, and in consideration of the settlement consideration set forth above, and for other valuable consideration, the Settling Defendants completely release, acquit and forever discharge Settling Plaintiffs and the Willis Class Members from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Defendants, or any of them, ever had, now has, or hereafter can, shall, or may have arising from or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Defendant may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Defendant hereby waives any right to relief from the provisions of this Stipulation in such event, and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, and without regard to the subsequent discovery or existence of such different or additional facts.

1. As provided in the Release set forth in Paragraph VII.B, above, the Settling Defendants, including any of Settling Defendants' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

VIII. MISCELLANEOUS PROVISIONS

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A. No Concession By Any Settling Party

It is understood and agreed that this Stipulation represents the compromise of disputed positions with respect to the relevant facts and law. This Stipulation shall not be deemed a concession by any Settling Party as to any fact or the validity or invalidity of any claim or defense.

B. Best Efforts and Mutual Cooperation.

Settling Plaintiffs and Settling Defendants shall use their best efforts to effectuate this Stipulation and its purpose, and secure the prompt, complete, and final dismissal with prejudice of the Willis Action. The Settling Parties agree to take any and all reasonable steps that may be necessary in that regard, as long as those steps do not require any material deviations from the terms of this Stipulation or impose material new obligations beyond those contemplated by this Stipulation.

The Settling Parties recognize that not all parties to the Coordinated Actions have entered into this Stipulation and that a trial may be necessary as against non-settling parties. The Settling Parties agree to cooperate and coordinate their efforts in any such trial or hearing so as to obtain entry of judgment consistent with the terms of this Stipulation; this provision, however, will not require Willis Class counsel to participate in any such trial or render any efforts absent written agreement of Settling Defendants to compensate them for such efforts. Nor shall this Stipulation preclude Settling Plaintiffs from participating in any further proceedings that may affect their rights.

C. Adjustments Of Settling Parties' Estimates

In the event that the Court enters findings of fact that vary from the estimated amounts that the Settling Parties have agreed to for purposes of this Stipulation (including the length of the Transition Period described in Paragraph V.C.), the Court's findings will be determinative and will supplant the amounts set forth in this Stipulation. For example, if the Court should determine following trial that the Basin's Total Safe Yield is, in fact, 120,000 acre-feet per year (or some other amount), the Court's findings will control.

D. Fees And Costs Of Settling Plaintiff's Counsel

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The Settling Parties understand that Willis Class counsel intend to seek an award of their fees and costs from the Court. Any such awards will be determined by the Court unless agreed to by the Settling Parties. Settling Defendants will likely oppose the motion for fees and costs. If Willis Class Counsel obtain an award of fees, Settling Defendants agree to exercise their best efforts to pay any fee award within a reasonable period of time or as required pursuant to Court order. Willis Class Counsel agree that they will not seek any attorneys' fees and/or costs from Settling Defendants for any efforts Willis Class Counsel undertake after the Court's entry of Final Judgment approving the Settlement, except with respect to the following: (a) any reasonable and appropriate efforts by Willis Class Counsel to enforce the terms of this Stipulation against Settling Defendants in the event Settling Defendants fail to comply with a provision of this Stipulation; (b) any reasonable and appropriate efforts by Willis Class Counsel to defend against any new or additional claims or causes of action asserted by Settling Defendants against the Willis Class in pleadings or motions filed in the Consolidated Actions; (c) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written Court order stating that, pursuant to this provision, Class counsel may seek additional fees for specified efforts from Settling Defendants pursuant to Code of Civil Procedure section 1021.5; (d) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written request by Settling Defendants executed by counsel for all Settling Defendants that Class Counsel participate in future aspects of the Consolidated Actions (e.g., the negotiation of a Physical Solution); or (e) any reasonable and appropriate efforts that Willis Class Counsel render to defend a fee award in their favor in the event the Settling Defendants appeal such a fee award and the Court of Appeal affirms the fee award in the amount of 75 percent or more of the fees awarded by the Superior Court. Willis Class Counsel remain free to seek an award of fees from other parties to the litigation.

E. Retention Of Jurisdiction

The Superior Court of the State of California for Los Angeles County shall retain jurisdiction over the implementation, enforcement, and performance of this Stipulation, and shall have exclusive jurisdiction over any suit, action, proceeding, or dispute arising out of or relating

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to this Stipulation or the applicability of this Stipulation.

F. Choice Of Law

This Stipulation shall be governed and construed by the substantive laws of the State of California.

G. Finality

a. This Stipulation shall be effective on the Effective Date, which shall occur when the Court has entered a Final Judgment approving this Stipulation and one of the following events occurs; (i) if an appeal is taken, the date of final affirmance of the Final Judgment, or if petition for review is granted by California Supreme Court or writ of certiorari is granted by United States Supreme Court, the date of final affirmance of the Final Judgment following review pursuant to such grant; or (ii) the date of final dismissal of any appeal from Final Judgment or the final dismissal of any proceedings on petition to review the Final Judgment; or (iii) if no appeal is filed, the expiration date of the time for filing or noticing of any appeal from the Final Judgment, i.e., sixty (60) days after notice of entry of the Final Judgment.

b. In the event that the Court refuses to approve this Stipulation, or any material part hereof, or if such approval is materially modified or set aside on appeal, or if the Final Judgment is not entered in accordance with this Stipulation, appellate review is sought, and on such review, such Final Judgment is not affirmed as to all material parts, then any of the Settling Parties to the Stipulation have the option to rescind this Stipulation in its entirety. Written notice of the exercise of any such right to rescind shall be made according to the terms of this Paragraph VIII.L below within thirty (30) days of the triggering event.

H. Integrated Agreement

This Stipulation constitutes the entire, complete and integrated agreement among the Settling Parties, and supersedes all prior or contemporaneous undertakings of the Settling Parties in connection herewith. This Stipulation may not be modified or amended except in writing executed by the Settling Parties and approved by the Court. It shall be construed and interpreted to effectuate the intent of the Settling Parties which is to provide, through this Stipulation, for a complete resolution of the relevant claims between the Settling Parties on the terms provided in

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this Stipulation. Notwithstanding the foregoing, the Settling Parties intend and agree that this Stipulation will later be incorporated into a Physical Solution, as defined above, which is consistent with the terms of this Stipulation.

I. Waiver

The waiver by any Settling Party of its rights under any provision of this Stipulation or of any breach of this Stipulation shall not be deemed a waiver of any other provision or subsequent breach of this Stipulation.

J. Intended Beneficiaries

This Stipulation shall be binding upon, and inure to the benefit of, the heirs, successors and assigns of the Settling Plaintiffs and Settling Defendants. Without limiting the generality of the foregoing, this Stipulation shall bind each and every subsequent property owner who acquires property in the Basin from a Willis Class Member as well as persons who subsequently acquire such properties.

K. Interpretation and Construction

The terms of this Stipulation have been arrived at by negotiation and mutual agreement, with consideration of and participation by all Settling Parties and with the advice of counsel. Neither Settling Plaintiffs nor Settling Defendants shall be considered to be the drafter of this Stipulation or any of its provisions for the purpose of any statute, case law, or rule of interpretation or construction that would or might cause any provision to be construed against the drafter of this Stipulation (including but not limited to Civil Code Section 1654). The descriptive headings of any paragraphs or sections of this Stipulation are inserted for convenience only and do not constitute a part of this Stipulation.

L. Notices

Where this Stipulation requires either party to provide notice or any other communication or document to the other, such notice shall be in writing, and such notice, communication, or document shall be provided by personal delivery, facsimile transmission, overnight delivery, or letter sent by United States mail with delivery confirmation. Notice may be provided to the Settling Parties through their counsel of record at the following addresses:

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California Water Service Company:	Attn: President California Water Service Company 1720 North First Street San Jose, California 95112
with a copy to:	John Tootle California Water Service Company 2632 West 237th Street Torrance, California 90505
City of Palmdale:	Attn: City Manager 38300 Sierra Highway Palmdale, California 93550
with a copy to:	James Markman Richards, Watson & Gerson 355 South Grand Avenue, 40th Floor Los Angeles, California 90071
Littlerock Creek Irrigation District:	Attn: General Manager 35141 87th Street East Littlerock, California 93543
with a copy to:	Wayne Lemieux Lemieux & O'Neill 2393 Townsgate Rd., Suite 201 Westlake Village, California 91361
Los Angeles County Waterworks District No. 40:	Attn: Director 260 East Avenue K-8 Lancaster, California 93535
with a copy to:	Michael Moore Los Angeles county Counsel Office 648 Kenneth Hahn Hall of Administration 500 West Temple Street Los Angeles, California 90012
with a copy to:	Eric L. Garner

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	Best Best & Krieger LLP 3750 University Avenue P.O.B 1028 Riverside, California 92502
Palmdale Water District:	Attn: General Manager 2029 E. Avenue Q Palmdale, California 93550
with a copy to:	Thomas Bunn III Lagerlof, Senecal, Gosney & Kruse, LLP 301 North Lake Avenue, 10th floor Pasadena, California 91101-4108
Palm Ranch Irrigation District:	Attn: General Manger 4871 West Avenue M. (Colombia Way) Quartz Hill, California 93536
with copy to:	Wayne Lemieux Lemieux & O'Neill 2393 Townsgate Rd., Suite 201 Westlake Village, California 91361
Quartz Hill Water District:	Attn: General Manager 42141 N. 50th Street West Quartz Hill, California 93536
with copy to:	Bradley Weeks Charlton Weeks LLP 107 West Avenue M-14, Suite A Palmdale, California 93551
Phelan Pinon Hills Community Services District:	Attn: General Manager 4037 Phelan Road, Suite C-1 Phelan, California 92371
with copy to:	Francis Logan Law Office of Susan Trager 19712 MacArthur Blvd. #120 Irvine, California 92612
Rosamond Community Services District:	Attn: General Manager

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RIVERSIDE, CA 92502

	3179 35th Street W Rosamond California 93560
with a copy to:	Eric L. Garner Best Best & Krieger LLP 3750 University Avenue P.O.Box 1028 Riverside, California 92502
Willis Class:	Rebecca Lee Willis
With a copy to:	Ralph Kalfayan Krause Kalfayan Benink & Slavens LLP 625 Broadway, Ste. 635 San Diego, CA 92101

or to such other address as any Settling Party shall, from time to time, specify in the manner provided herein.

M. No Admissions

Neither this Stipulation, nor any act performed or document executed pursuant to or in furtherance of this Stipulation is or may be deemed to be or may be used as an admission of, or evidence of, (i) the validity of any claim or defense; or (ii) the appropriateness or inappropriateness of any Willis Class Member or other representational capacity, whether contemporaneously with this Stipulation or at any time in the future.

N. Execution

This Stipulation may be executed in counterparts by Settling Plaintiffs and Settling Defendants, and a facsimile signature shall be deemed an original signature for purposes of executing this Stipulation. Each of the undersigned persons represents that he or she is fully authorized to enter into the terms and conditions of and to execute this Stipulation by the party for which he or she has signed the Stipulation.

IN WITNESS HEREOF, the undersigned being duly authorized, have executed this Stipulation on the dates shown below.

Rebecca Lee Willis

Approved as to form by: Ralph Kalfayan

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RIVERSIDE, CA 92502

By: Rebecca Lee Willis

By: Keene Kaffaga

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: _____

By: _____

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

77381

By: _____

California Water Service

By: _____

City of Palmdale

By: James J. Markman

Littlerock Creek Irrigation District

By: _____

Los Angeles County Waterworks District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: James D. Markman

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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RIVERSIDE, CA 92502

By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: BJ Bones

Los Angeles County Waterworks District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

By: _____

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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By: _____

By: _____

California Water Service

By: _____

By: _____

City of Palmdale

By: _____

By: _____

Littlerock Creek Irrigation District

By: _____

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By: _____
Chair, Board of Supervisors

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Executive Officer-Clerk Of the Board of Supervisors

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DEPUTY

Palmdale Water District

By: _____

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By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: _____

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77381

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by; Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

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By: _____

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By: _____

Rosamond Community Services Districts

By: _____

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By: _____

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Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

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Palm Ranch Irrigation District

By: _____

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Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: Nelli A. Kostopoulos

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

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Palm Ranch Irrigation District

By: _____

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Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: Nellie A. Kostapoulos

Approved as to form by: Wayne Lemieux

By: _____

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Superior Court of the State of California

County of Los Angeles

ANTELOPE VALLEY GROUNDWATER CASES This Pleading Relates to Included Action: REBECCA LEE WILLIS, on behalf of herself and all others similarly situated, Plaintiff, v. LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40; CITY OF LANCASTER; CITY OF LOS ANGELES; CITY OF PALMDALE; PALMDALE WATER DISTRICT; LITTLEROCK CREEK IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; PALM RANCH IRRIGATION DISTRICT; QUARTZ HILL WATER DISTRICT; ANTELOPE VALLEY WATER CO.; ROSAMOND COMMUNITY SERVICES DISTRICT; and DOES 1 through 1,000; Defendants.	JUDICIAL COUNCIL COORDINATION PROCEEDING NO. 4408 Case No. BC 364553 **WILLIS CLASS STIPULATION OF SETTLEMENT**

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This Stipulation of Settlement (the "Stipulation" or "Agreement") is entered into this 13th day of July 2010 by and between California Water Service Company, City of Palmdale, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 ("District 40"), Palmdale Water District, Palm Ranch Irrigation District, Phelan Pinon Hills Community Services District, Quartz Hill Water District, and Rosamond Community Services District, Desert Lake Community Services District and North Edwards Water District (collectively, "Settling Defendants"), on the one hand, and Rebecca Lee Willis and the Willis Class (as more fully defined below), which consists of certain persons who own property(ies) that overly the Antelope Valley Groundwater Basin (the "Basin") on which they do not and have not pumped groundwater, on the other hand. Settling Defendants, Rebecca Lee Willis, and the Willis Class are collectively referred to as the "Settling Parties," or individually a "Settling Party." This Stipulation and the Exhibits hereto set forth the terms of a settlement (the "Settlement") between and among the Settling Parties compromising and dismissing the claims and defenses they have asserted in the above-captioned action. The Settlement is subject to approval by the Superior Court of California for Los Angeles County; in the event such approval is denied, cannot be obtained, or is reversed on appeal, this Stipulation shall have no further force or effect, and the Settling Parties shall be returned to their respective positions in the litigation prior to execution of this Stipulation.

I. THE SETTLING PARTIES

A. The Settling Plaintiffs are Rebecca Lee Willis and the members of the Willis Class, as defined in paragraph II, D below.

B. The Settling Defendants are as follows:

1. California Water Service Company is a California corporation which extracts groundwater from the Basin to serve customers within the Basin.

2. The City of Palmdale is a municipal corporation in the County of Los Angeles which receives water from the Basin.

3. Littlerock Creek Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

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4. Los Angeles County Waterworks District No. 40 ("District 40") is a public agency governed by the Los Angeles County Board of Supervisors. District 40 has been lawfully organized to perform various functions, including producing water from the Basin, which it provides to more than 65,000 residential and commercial customers in the Basin.

5. Palmdale Water District is an irrigation district organized and operating under Division 11 of the California Water Code, which produces groundwater from the Basin to serve customers within the Basin.

6. Palm Ranch Irrigation District is a public agency which produces groundwater from the Basin to serve customers within the Basin.

7. Rosamond Community Services District is a public agency which produces water from the Basin which it provides to customers within the Basin.

8. Quartz Hill Water District is a county water district organized and operating under Division 12 of the California Water Code. It produces water from the Basin.

9. Phelan Pinon Hills Community Services District is a public water supplier which produces water from the Basin.

10. Desert Lake Community Services District is a public agency which produces groundwater from the Basin.

11. North Edwards Water district is a public agency which produces groundwater from the Basin.

II. RECITALS

A. On or about November 29, 2004, District 40 commenced a civil action against Overlying Owners (more specifically defined in III. M) in the Basin, which is now pending in the Superior Court for Los Angeles County, seeking, inter alia, an adjudication of their respective rights to produce groundwater from the Basin. On or about July 11, 2005, that case was coordinated with several quiet title actions that had been brought by Basin landowners, which also sought a declaration of the parties' rights to produce and use the Basin's groundwater. Antelope Valley Groundwater Cases, No. 1-05-CV049053 (JCCP 4408) (hereinafter the "Coordinated Actions"). The Coordinated Actions are pending before the Honorable Jack Komar.

B. On or about October 10, 2006, the Court held an initial phase of trial with respect to the boundaries of the Basin. The Court issued an Order on November 3, 2006, defining the Basin for purposes of this litigation.

C. On or about January 11, 2007 Plaintiff, Rebecca Lee Willis ("Willis"), filed a class action complaint in the Superior Court of the State of California for Los Angeles County (No. BC 364553) (the "Willis Action") in which she alleged that certain Public Water Suppliers had wrongfully claimed prescriptive rights to the Basin's groundwater. Willis sought, inter alia, a declaration that the Settling Defendants had not obtained prescriptive rights as to her or Willis Class Members (more specifically defined in III.X). On or about April 10, 2007, the Willis Action was coordinated as part of the Coordinated Actions.

D. By Order dated September 11, 2007 (as amended by Orders dated May 22, 2008 and September 2, 2008), the Court certified Willis as the representative of a Class of certain Overlying Owners (more specifically defined in if III.M. below) pursuant to Section 382 of the California Code of Civil Procedure and Division 7, Chapter 6 of the Rules of Court.

E. In early January 2009, Notice of the Pendency of the Willis Action was sent by first class mail to all Willis Class Members (more specifically defined in III.X below) who could be identified with reasonable effort and a summary notice was published. The deadline for putative Willis Class Members to exclude themselves (as extended) expired on August 30, 2009. The Court has made various orders allowing certain parties to rejoin the Willis Class.

F. The Settling Parties have actively discussed potential settlement for much of this year. On or about September 2, 2009, the Settling Parties engaged in mediation before the Honorable Ronald Robie during the course of which counsel for most of the parties reached an agreement in principle to settle the Willis Action, subject to the negotiation of a final settlement agreement, client approvals, and approval by the Court.

G. On or about February 19, 2010, the Court entered an Order Transferring and Consolidating Actions for All Purposes (hereinafter the "Consolidated Actions").

H. Over the course of the last three years, the Settling Plaintiffs' counsel have conducted a thorough investigation of the facts and law relating to the matters at issue in the

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Consolidated Actions and have evaluated the merits of all Settling Parties' contentions and the impact this Settlement will have on the Willis Class Members. After evaluating the foregoing, the Settling Plaintiffs and counsel are satisfied that the terms and conditions of this Stipulation are fair, reasonable, and adequate, and that the Settlement is in the best interest of the Willis Class Members.

I. The Settling Defendants contend that they have prescriptive rights to substantially more than 15% of the Basin's Native Safe Yield. The Settling Plaintiffs contend that the Settling Defendants have no such prescriptive rights as to them. This Settlement reflects a compromise between the Settling Parties and shall not (1) be construed as an admission or concession by any Settling Party of the truth of any allegation or the validity of any claim or defense asserted in any of the pleadings, (2) be construed to prejudice the rights, claims, or defenses of any persons who are not Settling Parties, or (3) be construed to prejudice the rights, claims, or defenses (whether asserted or potential) of any Settling Party vis-à-vis any non-settling party.

J. The United States owns property within the Basin as to which it claims a Federal Reserved Right to produce groundwater.

III. DEFINITIONS

The following terms used in this Stipulation shall have the meanings set forth below:

A. "Assessments" means any monetary or other levy or charge imposed as part of a Physical Solution.

B. "Basin" means the Antelope Valley Groundwater Basin as defined in the Court's Order of November 3, 2006.

C. "Consolidated Actions" means all actions that have been or subsequently were coordinated as part of Judicial Council Coordination Proceeding No. 4408 and all actions that have been or subsequently were consolidated pursuant to the Court's Order from February 19, 2010.

D. "Correlative Rights" means the principle of California law, articulated in Katz v. Walkinshaw (1903) 141 Cal. 116 and subsequent cases, that Overlying Owners may make reasonable and beneficial use of the water in a Basin and that, if the supply of water is insufficient

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for all reasonable and beneficial needs, each Overlying Owner is entitled to a fair and just proportion of the water available to the Overlying Owners.

E. "Court" means the Honorable Jack Komar, sitting by designation as a Judge of the Superior Court of Los Angeles County or such other Judge as may be designated by the Judicial Conference to hear JCCP No. 4408.

F. "Effective Date" means the date on which the Court's Judgment granting final approval to the Settlement becomes final and not subject to further appeal.

G. "Federal Reserved Right" is the principle originally articulated in Winters v. United States (1908) 207 U.S. 564 and more recently in *Cappaert v. United States* (1976) 426 U.S. 128, which holds that when the Federal Government reserves land from the public domain, it impliedly reserves sufficient water to serve the purposes for which the lands were reserved, and the quantity of reserved water is limited to the amount necessary to fulfill the purposes of the reserved land. The United States contends that the Federal Reserved Right entitles the United States to a prior and paramount right to a portion of the Native Safe Yield.

H. "Federally Adjusted Native Safe Yield" for any given year means the Basin's Native Safe Yield less the actual annual production of the United States' during the prior year pursuant to its Federal Reserved Right.

I. "Final Judgment" means a final judgment to be entered by the Court in the above matter, which approves the terms and provisions of this Stipulation, and is substantially in the form attached hereto as Exhibit A.

J. "Imported Water" means water that enters the Basin and that originates outside the Basin that is not part of the Basin's Native Safe Yield, and that, absent human intervention, would not recharge or be used in the Basin. Imported Water does not include water purchased by the Watermaster with Replacement Assessments or bottled water.

K. "Native Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions, generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin, results in no long-term depletion of

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Basin groundwater storage. Pumping of the Settling Parties' share of Native Safe Yield is not subject to any Replacement Assessment.

L. "Overlying Right" means the appurtenant right of an Overlying Owner to use groundwater from the Native Safe Yield for overlying reasonable and beneficial use.

M. "Overlying Owners" means owners of land overlying the Basin who hold an Overlying Right.

N. "Physical Solution" means a mechanism that comprehensively resolves the competing claims to the Basin's water and provides for the management of the Basin. The Settling Parties anticipate that this Settlement will later be incorporated into a Physical Solution.

O. "Preliminary Approval Order" means the Court's Order granting preliminary approval to the Settlement set forth herein, directing the manner in which notice of the Settlement shall be provided to the Willis Class, and scheduling a final Hearing for the Court to consider whether to approve the Settlement. The Settling Parties will submit a proposed Preliminary Approval Order in the form appended as Exhibit B hereto.

P. "Recycled Water" means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource..

Q. "Replacement Assessment" means the charge imposed on any Settling Party by the Watermaster for producing more water than it is entitled to produce from the Basin under the terms of this Settlement or pursuant to such further orders as the Court may enter in the Coordinated Actions.

R. "Replacement Water" means water purchased by the Watermaster to offset production in excess of a Settling Party's share of Total Safe Yield.

S. "Return Flows" means the amount of water that is put to reasonable and beneficial agricultural, municipal or other use and thereafter returns to the Basin and is part of the Basin's Total Safe Yield.

T. "Settlement" means this Stipulation, including the Exhibits appended hereto.

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U. "Total Safe Yield" means the amount of pumping, which under a given set of land use and other prevailing cultural conditions generates Return Flows that, when combined with naturally occurring groundwater recharge to the Basin and Return Flows derived from Imported Water, results in no long-term depletion of Basin groundwater storage.

V. "Transition Period" means the period of time provided for in the Physical Solution during which the parties' right to produce water from the Native Safe Yield free from Replacement Assessment will decrease to amounts that total no more than that party's share of Native Safe Yield.

W. "Watermaster" means the person or entity appointed by the Court to monitor and manage the Basin's groundwater, subject to oversight by the Court.

X. "Willis Class" or "Willis Class Members" means the Willis Class as defined in the Court's Order of September 11, 2007, as amended by the Court's Orders of May 22, 2008, and September 2, 2008, but shall exclude all persons who timely excluded themselves from the Willis Class and have not rejoined the Willis Class. The Willis Class consists of the following:

> "All private (i.e., non-governmental) persons and entities that own real property within the Basin, as adjudicated, that are not presently pumping water on their property and have not done so at any prior time ("the Class"). The Class includes the successors-in-interest by way of purchase, gift, inheritance, or otherwise of such landowners.
>
> The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons to the extent their properties are connected and receive service from a municipal water system, public utility, or mutual water company. The Class shall [further] exclude all property(ies) that are listed as `improved' by the Los Angeles County or Kern County Assesor's' office, unless the owners of such properties declare under penalty of perjury that they do not pump and have never pumped water on those properties."

IV. SETTLEMENT TERMS

In consideration of the covenants and agreements set forth herein, and of the releases and dismissals described below, the Settling Parties agree to settle and compromise the claims that have been asserted or that could have been asserted between and among the Willis Class and the

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Settling Defendants, subject to Court approval, on the following terms and conditions:

A. Native Safe Yield.

Settling Defendants and the United States contend that the best estimate of the Basin's Native Safe Yield is 82,300 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest the Native Safe Yield proposed by the Settling Defendants as long as it is at least 82,300 acre-feet per year. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Native Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

B. Total Safe Yield.

The Settling Defendants contend that the best estimate of the Basin's Total Safe Yield is 110,500 acre-feet per year. The Willis Class agrees not to challenge or otherwise contest that estimate. The Settling Parties understand and agree that, in the absence of stipulation by all parties in the Coordinated Actions, the Court will decide the Basin's Total Safe Yield following trial, and the Settling Parties agree to be bound by the Court's determination in that regard even if some or all of them do not participate in such a trial.

C. Federal Reserved Right.

The United States contends that it is entitled to a Federal Reserved Right. The Settling Parties agree that the Federal Government has a Federal Reserved Right to use a portion of the Native Safe Yield. The Settling Parties agree that the Court will decide the amount of the Federal Reserved Right and they agree to be bound by the Court's determination.

D. Allocation Of Federally Adjusted Native Safe Yield.

The Settling Parties agree to be bound by the Court's determination of the amounts of the Basin's Native Safe Yield and the United States' Federal Reserved Right. The Basin's Federally Adjusted Native Safe Yield shall be the Basin's Native Safe Yield less the prior year's production of water by the United States (not to exceed the Federal Reserved Right). The Settling Parties agree that the Settling Defendants and the Willis Class Members each have rights to produce groundwater from the Basin's Federally Adjusted Native Safe Yield.

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1. Settling Defendants' Water Rights

Settling Defendants have asserted in the Coordinated Actions that they have obtained prescriptive rights to the Basin's Native Safe Yield. This Stipulation shall neither be construed to recognize prescriptive rights nor to limit the Settling Defendants' prescriptive claims vis-a-vis the Basin or any non-settling parties, but rather as an agreement to fairly allocate the Settling Parties' respective rights to use the Basin's water. The Settling Parties agree that the Settling Defendants collectively have the right to produce up to 15% of the Basin's Federally Adjusted Native Safe Yield free of any Replacement Assessment. The Willis Class will not take any positions or enter into any agreements that are inconsistent with the exercise of the Settling Defendants' rights.

2. Willis Class Members' Pumping Rights

The Settling Parties agree that the Willis Class Members have an Overlying Right to a correlative share of 85% of the Federally Adjusted Native Safe Yield for reasonable and beneficial uses on their overlying land free of any Replacement Assessment. The Settling Defendants will not take any positions or enter into any agreements that are inconsistent with the exercise of the Willis Class Members' Overlying Right to produce and use their correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield.

a. Safe Harbor.

The Willis Class Members acknowledge that the Settling Defendants may at trial prove prescriptive rights against all groundwater pumping in the Basin during a prior prescriptive period. If the Settling Defendants do prove prescriptive rights, Settling Defendants shall not exercise their prescriptive rights to diminish the Willis Class Members' Overlying Right below a correlative share of 85% of the Basin's Federally Adjusted Native Safe Yield. If the Settling Defendants fail to prove any prescriptive rights, this Agreement shall not diminish at all the rights of Willis Class Members to make reasonable and beneficial use of a correlative share of the Basin's Federally Adjusted Native Safe Yield. In no event shall this Agreement require the Willis Class Members to give to the Settling Defendants more than 15% of any rights to use the Basin's groundwater that they may obtain by way of settlement or judgment. If there is a subsequent Court decision whereby the Court determines that the Willis Class Members do not

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have Overlying Rights, this Agreement shall not require Settling Defendants to give the Willis Class Members any right to pump from the Native Safe Yield.

3. Correlative Rights Of Overlying Landowners

The Willis Class Members recognize that other Overlying Owners may have the right to pump correlatively with them 85% of the Federally Adjusted Native Safe Yield of the Basin for reasonable and beneficial uses on their overlying land.

4. Return Flows From Imported Water

a. The Settling Parties acknowledge and agree that they all have the right to recapture Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin, consistent with California law. The Settling Parties will not be subject to any Replacement Assessment for their production of an amount equal to the Return Flows from Imported Water that they put to reasonable and beneficial use in the Basin.

b. Settling Defendants believe that the best estimates of Return Flows from Imported Water are (a) 25% of the water used for agricultural purposes and (b) 28% of the water used for municipal and industrial purposes. Settling Defendants further believe that the best estimate of total annual Return Flows from Imported Water is 28,200 acre-feet of which 25,100 acre-feet is from municipal and industrial use and 3,100 acre-feet is from agricultural use. The Willis Class agrees not to contest those estimates, and all Settling Parties agree to be bound by any findings that may later be made by the Court with respect thereto.

V. MANAGEMENT OF THE BASIN

A. General

The Settling Parties agree that the Basin has limited water resources and that they should use their best efforts to conserve and maximize reasonable and beneficial use. The Settling Parties further agree that there is a need to create a groundwater management plan to ensure that pumping from the Basin does not exceed the Basin's Total Safe Yield and that the Court should appoint a Watermaster to oversee the management of the Basin's water resources.

B. Physical Solution

The Settling Parties expect and intend that this Stipulation will become part of a Physical

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Solution entered by the Court to manage the Basin and that the Court will retain jurisdiction in the Coordinated Actions. The Settling Parties agree to be part of such a Physical Solution to the extent it is consistent with the terms of this Stipulation and to be subject to Court-administered rules and regulations consistent with California and Federal law and the terms of this Stipulation. The Settling Parties agree that the Physical Solution may require installation of a meter on any groundwater pump by a Willis Class Member before a Willis Class Member may produce groundwater. The responsibility for the cost of such meters will be determined by the Court.

C. Transition Period.

The Settling Parties agree that net groundwater production from the Basin needs to be reduced over a period of time from current levels to no more than the Basin's Total Safe Yield. This can be accomplished by reducing pumping and/or purchasing Replacement Water. The Settling Parties agree that the Transition Period should begin at the date of entry of Final Judgment in the Coordinated Actions and should last seven years. During the first two years of the Transition Period no effort will be made to curtail groundwater pumping and no Replacement Assessments will be made. By the end of the seventh year of the Transition Period, groundwater pumping from the Basin without Replacement Assessment for Replacement Water will not exceed the Native Safe Yield.

D. Replacement Water.

The Settling Parties recognize the right of any Settling Party to produce groundwater from the Basin above their share of the Native Safe Yield, subject to the Physical Solution and to any Replacement Assessment. The Settling Parties agree to provide or purchase Imported Water for all groundwater pumping that exceeds a Settling Party's share of the Federally Adjusted Native Safe Yield. The Settling Parties agree that any Settling Party who produces more than its annual share of the Federally Adjusted Native Safe Yield in any year will be responsible to provide Replacement Water or pay a Replacement Assessment to the Watermaster so that the Watermaster can purchase Imported Water to recharge the Basin.

E. Water Storage

The Settling Parties agree that water storage in the Basin offers significant benefits and

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should be encouraged. The Settling Parties further recognize that there is a limit on the Basin's available storage space and that the storage of water for uses within the Basin should have priority over storage for use outside the Basin. Subject to those general principles, the Settling Parties agree that water storage should be permitted and encouraged and agree to support appropriate provisions in the Physical Solution.

F. Recycled Water

The Settling Parties agree that it is important to encourage the treatment and use of Recycled Water. The Willis Class agrees not to challenge or otherwise contest Settling Defendants' claims to Return Flows from Recycled Water that was reclaimed by the Sanitation Districts of Los Angeles County.

VI. PROCEDURES FOR CLASS NOTICE AND HEARING ON MOTIONS FOR PRELIMINARY AND FINAL APPROVAL OF STIPULATION

A. Preliminary Approval Motion and Settlement Notice.

Settling Plaintiffs shall file a motion for preliminary approval ("Preliminary Approval Motion") of the terms of the Settlement as soon as practicable following execution of this Stipulation by all Settling Parties. The Preliminary Approval Motion will seek entry of an Order Preliminarily Approving Class Action Settlement. The Preliminary Approval Motion shall include a proposed form of notice describing this Stipulation (the "Settlement Notice") to be disseminated to the Willis Class as well as a description of the procedures to be used in disseminating the Settlement Notice. The Settlement Notice shall be disseminated to all Willis Class Members by or under the supervision of counsel for District 40, with the expenses to be borne by District 40. The Settling Parties will attempt to agree upon the language for the Settlement Notice, but agree to be bound by the Court's determination in the event they have any disputes or disagreements in that regard. The Settling Parties agree to use their best efforts to have the Preliminary Approval Motion heard as promptly as is practical.

B. Final Approval Hearing.

The Settlement Notice will advise Willis Class Members of the date and time set for a Hearing on the Settling Plaintiffs' Motion for Final Approval of the Stipulation, including

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advising them of their rights to submit statements in support of or opposition to the Stipulation. The Final Approval Motion shall request that this Court find that the Stipulation and Proposed Final Judgment are fair, reasonable, and adequate to the Willis Class and shall seek entry of a Final Judgment substantially in the form attached hereto as Exhibit A.

VII. RELEASES AND DISMISSALS

A. Release By Settling Plaintiffs

1. In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Section VIII, Paragraph G of this Stipulation, and in consideration for the settlement consideration set forth above, and for other valuable consideration, the Settling Plaintiffs shall completely release, acquit and forever discharge the Settling Defendants from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Plaintiffs, or each of them, ever had, now has, or hereafter can, shall, or may have on account of or in any way arising out of, any and all known or unknown, foreseen or unforeseen, suspected or unsuspected injuries, damages, and the consequences thereof in any way arising out of or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Plaintiff may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Plaintiff hereby expressly waives and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, without regard to the subsequent discovery or existence of such different or additional facts. As provided in the Release set forth above, the Settling Plaintiffs, including any of Settling Plaintiffs' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

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2. The Release set forth in Paragraph VII.A, above, does not include claims by any of the Settling Plaintiffs other than the claims set forth therein. In particular, the Settling Parties recognize that many persons own more than one parcel of land within the Basin. The foregoing Release only binds Willis Class Members and only with respect to those properties within the Basin on which they have not pumped water.

B. Release By Settling Defendants

In addition to the effect of any Final Judgment entered in accordance with this Stipulation, upon this Stipulation becoming final as set out in Paragraph VIII.G of this Stipulation, and in consideration of the settlement consideration set forth above, and for other valuable consideration, the Settling Defendants completely release, acquit and forever discharge Settling Plaintiffs and the Willis Class Members from any and all claims, demands, actions, suits, causes of action, whether class, individual, or otherwise in nature that Settling Defendants, or any of them, ever had, now has, or hereafter can, shall, or may have arising from or relating in any way to the matters at issue in the Willis Action ("Released Claims"). Each Settling Defendant may hereafter discover facts other than or different from those which he, she, or it knows or believes to be true with respect to the claims which are the subject matter of this Stipulation, but each Settling Defendant hereby waives any right to relief from the provisions of this Stipulation in such event, and fully, finally, and forever, settles and releases, upon this Stipulation becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent claim with respect to the subject matter of the Stipulation, whether or not concealed or hidden, and without regard to the subsequent discovery or existence of such different or additional facts.

1. As provided in the Release set forth in Paragraph VII.B, above, the Settling Defendants, including any of Settling Defendants' representatives, successors, agents, affiliates, employees, supervisors, officers, directors, or shareholders, agree to waive and release all rights and benefits which they might otherwise have pursuant to Section 1542 of the California Civil Code with regard to the release of such unknown, unanticipated or misunderstood claims, causes of action, liabilities, indebtedness and obligations.

VIII. MISCELLANEOUS PROVISIONS

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A. No Concession By Any Settling Party

It is understood and agreed that this Stipulation represents the compromise of disputed positions with respect to the relevant facts and law. This Stipulation shall not be deemed a concession by any Settling Party as to any fact or the validity or invalidity of any claim or defense.

B. Best Efforts and Mutual Cooperation.

Settling Plaintiffs and Settling Defendants shall use their best efforts to effectuate this Stipulation and its purpose, and secure the prompt, complete, and final dismissal with prejudice of the Willis Action. The Settling Parties agree to take any and all reasonable steps that may be necessary in that regard, as long as those steps do not require any material deviations from the terms of this Stipulation or impose material new obligations beyond those contemplated by this Stipulation.

The Settling Parties recognize that not all parties to the Coordinated Actions have entered into this Stipulation and that a trial may be necessary as against non-settling parties. The Settling Parties agree to cooperate and coordinate their efforts in any such trial or hearing so as to obtain entry of judgment consistent with the terms of this Stipulation; this provision, however, will not require Willis Class counsel to participate in any such trial or render any efforts absent written agreement of Settling Defendants to compensate them for such efforts. Nor shall this Stipulation preclude Settling Plaintiffs from participating in any further proceedings that may affect their rights.

C. Adjustments Of Settling Parties' Estimates

In the event that the Court enters findings of fact that vary from the estimated amounts that the Settling Parties have agreed to for purposes of this Stipulation (including the length of the Transition Period described in Paragraph V.C.), the Court's findings will be determinative and will supplant the amounts set forth in this Stipulation. For example, if the Court should determine following trial that the Basin's Total Safe Yield is, in fact, 120,000 acre-feet per year (or some other amount), the Court's findings will control.

D. Fees And Costs Of Settling Plaintiff's Counsel

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RIVERSIDE, CA 92502

The Settling Parties understand that Willis Class counsel intend to seek an award of their fees and costs from the Court. Any such awards will be determined by the Court unless agreed to by the Settling Parties. Settling Defendants will likely oppose the motion for fees and costs. If Willis Class Counsel obtain an award of fees, Settling Defendants agree to exercise their best efforts to pay any fee award within a reasonable period of time or as required pursuant to Court order. Willis Class Counsel agree that they will not seek any attorneys' fees and/or costs from Settling Defendants for any efforts Willis Class Counsel undertake after the Court's entry of Final Judgment approving the Settlement, except with respect to the following: (a) any reasonable and appropriate efforts by Willis Class Counsel to enforce the terms of this Stipulation against Settling Defendants in the event Settling Defendants fail to comply with a provision of this Stipulation; (b) any reasonable and appropriate efforts by Willis Class Counsel to defend against any new or additional claims or causes of action asserted by Settling Defendants against the Willis Class in pleadings or motions filed in the Consolidated Actions; (c) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written Court order stating that, pursuant to this provision, Class counsel may seek additional fees for specified efforts from Settling Defendants pursuant to Code of Civil Procedure section 1021.5; (d) any reasonable and appropriate efforts by Willis Class Counsel that are undertaken in response to a written request by Settling Defendants executed by counsel for all Settling Defendants that Class Counsel participate in future aspects of the Consolidated Actions (e.g., the negotiation of a Physical Solution); or (e) any reasonable and appropriate efforts that Willis Class Counsel render to defend a fee award in their favor in the event the Settling Defendants appeal such a fee award and the Court of Appeal affirms the fee award in the amount of 75 percent or more of the fees awarded by the Superior Court. Willis Class Counsel remain free to seek an award of fees from other parties to the litigation.

E. Retention Of Jurisdiction

The Superior Court of the State of California for Los Angeles County shall retain jurisdiction over the implementation, enforcement, and performance of this Stipulation, and shall have exclusive jurisdiction over any suit, action, proceeding, or dispute arising out of or relating

to this Stipulation or the applicability of this Stipulation.

F. Choice Of Law

This Stipulation shall be governed and construed by the substantive laws of the State of California.

G. Finality

a. This Stipulation shall be effective on the Effective Date, which shall occur when the Court has entered a Final Judgment approving this Stipulation and one of the following events occurs; (i) if an appeal is taken, the date of final affirmance of the Final Judgment, or if petition for review is granted by California Supreme Court or writ of certiorari is granted by United States Supreme Court, the date of final affirmance of the Final Judgment following review pursuant to such grant; or (ii) the date of final dismissal of any appeal from Final Judgment or the final dismissal of any proceedings on petition to review the Final Judgment; or (iii) if no appeal is filed, the expiration date of the time for filing or noticing of any appeal from the Final Judgment, i.e., sixty (60) days after notice of entry of the Final Judgment.

b. In the event that the Court refuses to approve this Stipulation, or any material part hereof, or if such approval is materially modified or set aside on appeal, or if the Final Judgment is not entered in accordance with this Stipulation, appellate review is sought, and on such review, such Final Judgment is not affirmed as to all material parts, then any of the Settling Parties to the Stipulation have the option to rescind this Stipulation in its entirety. Written notice of the exercise of any such right to rescind shall be made according to the terms of this Paragraph VIII.L below within thirty (30) days of the triggering event.

H. Integrated Agreement

This Stipulation constitutes the entire, complete and integrated agreement among the Settling Parties, and supersedes all prior or contemporaneous undertakings of the Settling Parties in connection herewith. This Stipulation may not be modified or amended except in writing executed by the Settling Parties and approved by the Court. It shall be construed and interpreted to effectuate the intent of the Settling Parties which is to provide, through this Stipulation, for a complete resolution of the relevant claims between the Settling Parties on the terms provided in

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this Stipulation. Notwithstanding the foregoing, the Settling Parties intend and agree that this Stipulation will later be incorporated into a Physical Solution, as defined above, which is consistent with the terms of this Stipulation.

I. Waiver

The waiver by any Settling Party of its rights under any provision of this Stipulation or of any breach of this Stipulation shall not be deemed a waiver of any other provision or subsequent breach of this Stipulation.

J. Intended Beneficiaries

This Stipulation shall be binding upon, and inure to the benefit of, the heirs, successors and assigns of the Settling Plaintiffs and Settling Defendants. Without limiting the generality of the foregoing, this Stipulation shall bind each and every subsequent property owner who acquires property in the Basin from a Willis Class Member as well as persons who subsequently acquire such properties.

K. Interpretation and Construction

The terms of this Stipulation have been arrived at by negotiation and mutual agreement, with consideration of and participation by all Settling Parties and with the advice of counsel. Neither Settling Plaintiffs nor Settling Defendants shall be considered to be the drafter of this Stipulation or any of its provisions for the purpose of any statute, case law, or rule of interpretation or construction that would or might cause any provision to be construed against the drafter of this Stipulation (including but not limited to Civil Code Section 1654). The descriptive headings of any paragraphs or sections of this Stipulation are inserted for convenience only and do not constitute a part of this Stipulation.

L. Notices

Where this Stipulation requires either party to provide notice or any other communication or document to the other, such notice shall be in writing, and such notice, communication, or document shall be provided by personal delivery, facsimile transmission, overnight delivery, or letter sent by United States mail with delivery confirmation. Notice may be provided to the Settling Parties through their counsel of record at the following addresses:

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3750 UNIVERSITY AVENUE, SUITE 400
P.O. BOX 1028
RIVERSIDE, CA 92502

California Water Service Company:	Attn: President California Water Service Company 1720 North First Street San Jose, California 95112
with a copy to:	John Tootle California Water Service Company 2632 West 237th Street Torrance, California 90505
City of Palmdale:	Attn: City Manager 38300 Sierra Highway Palmdale, California 93550
with a copy to:	James Markman Richards, Watson & Gerson 355 South Grand Avenue, 40th Floor Los Angeles, California 90071
Littlerock Creek Irrigation District:	Attn: General Manager 35141 87th Street East Littlerock, California 93543
with a copy to:	Wayne Lemieux Lemieux & O'Neill 2393 Townsgate Rd., Suite 201 Westlake Village, California 91361
Los Angeles County Waterworks District No. 40:	Attn: Director 260 East Avenue K-8 Lancaster, California 93535
with a copy to:	Michael Moore Los Angeles county Counsel Office 648 Kenneth Hahn Hall of Administration 500 West Temple Street Los Angeles, California 90012
with a copy to:	Eric L. Garner

	Best Best & Krieger LLP 3750 University Avenue P.O.B 1028 Riverside, California 92502
Palmdale Water District:	Attn: General Manager 2029 E. Avenue Q Palmdale, California 93550
with a copy to:	Thomas Bunn III Lagerlof, Senecal, Gosney & Kruse, LLP 301 North Lake Avenue, 10th floor Pasadena, California 91101-4108
Palm Ranch Irrigation District:	Attn: General Manger 4871 West Avenue M. (Colombia Way) Quartz Hill, California 93536
with copy to:	Wayne Lemieux Lemieux & O'Neill 2393 Townsgate Rd., Suite 201 Westlake Village, California 91361
Quartz Hill Water District:	Attn: General Manager 42141 N. 50th Street West Quartz Hill, California 93536
with copy to:	Bradley Weeks Charlton Weeks LLP 107 West Avenue M-14, Suite A Palmdale, California 93551
Phelan Pinon Hills Community Services District:	Attn: General Manager 4037 Phelan Road, Suite C-1 Phelan, California 92371
with copy to:	Francis Logan Law Office of Susan Trager 19712 MacArthur Blvd. #120 Irvine, California 92612
Rosamond Community Services District:	Attn: General Manager

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P.O. BOX 1028
RIVERSIDE, CA 92502

	3179 35th Street W Rosamond California 93560
with a copy to:	Eric L. Garner Best Best & Krieger LLP 3750 University Avenue P.O.Box 1028 Riverside, California 92502
Willis Class:	Rebecca Lee Willis
With a copy to:	Ralph Kalfayan Krause Kalfayan Benink & Slavens LLP 625 Broadway, Ste. 635 San Diego, CA 92101

or to such other address as any Settling Party shall, from time to time, specify in the manner provided herein.

M. No Admissions

Neither this Stipulation, nor any act performed or document executed pursuant to or in furtherance of this Stipulation is or may be deemed to be or may be used as an admission of, or evidence of, (i) the validity of any claim or defense; or (ii) the appropriateness or inappropriateness of any Willis Class Member or other representational capacity, whether contemporaneously with this Stipulation or at any time in the future.

N. Execution

This Stipulation may be executed in counterparts by Settling Plaintiffs and Settling Defendants, and a facsimile signature shall be deemed an original signature for purposes of executing this Stipulation. Each of the undersigned persons represents that he or she is fully authorized to enter into the terms and conditions of and to execute this Stipulation by the party for which he or she has signed the Stipulation.

IN WITNESS HEREOF, the undersigned being duly authorized, have executed this Stipulation on the dates shown below.

Rebecca Lee Willis

Approved as to form by: Ralph Kalfayan

LAW OFFICES OF
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P.O. BOX 1028
RIVERSIDE, CA 92502

By: Rebecca Lee Willis

By: Raeze Kaufman

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: _____

By: _____

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE, SUITE 400
P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

By: _____

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: James J. Markman

By: James J. Markman

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: _____

By: _____

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

LAW OFFICES OF
BEST BEST & KRIEGER LLP
3750 UNIVERSITY AVENUE, SUITE 400
P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

By: _____

California Water Service

Approved as to form by: John Tootle

By: _____

By: _____

City of Palmdale

Approved as to form by: James Markman

By: _____

By: _____

Littlerock Creek Irrigation District

Approved as to form by: Wayne Lemieux

By: BJ Bones

By: Wayne Lemieux

Los Angeles County Waterworks District No. 40

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Chair, Board of Supervisors

By: _____
Warren R. Wellen, Principal Deputy County Counsel

Approved as to form by: Eric L. Garner

By: _____

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: _____

Palmdale Water District

Approved as to form by: Tom Bunn

By: _____

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

By: _____

California Water Service

By: _____

City of Palmdale

By: _____

Littlerock Creek Irrigation District

By: _____

Los Angeles County Waterworks
District No. 40

By: _____
Chair, Board of Supervisors

Attest:
Sachi A. Hamai,
Executive Officer-Clerk Of the Board of Supervisors

By: LaChelle Smitherman
DEPUTY

Palmdale Water District

By: Dennis LaMoreaux

By: _____

Approved as to form by: John Tootle

By: _____

Approved as to form by: James Markman

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Approved as to form by:
Andrea Sheridan Ordin, County Counsel

By: _____
Warren R. Wellen, Principal Deputy
County Counsel

Approved as to form by: Eric L. Garner

By: _____

Approved as to form by: Tom Bunn

By: Thomas A. Bunn III

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P.O. BOX 1028
RIVERSIDE, CA 92502

77781

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

LAW OFFICES OF
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P.O. BOX 1028
RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

LAW OFFICES OF
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P.O. BOX 1028
RIVERSIDE, CA 92502

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

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P.O. BOX 1028
RIVERSIDE, CA 92502

Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: Nellie N. Kostopoulos

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

North Edwards Water District

By: _____

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

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Palm Ranch Irrigation District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

Phelan Pinon Hills Community Services District

By: _____

Approved as to form by: Francis Logan

By: _____

Quartz Hill Water District

By: _____

Approved as to form by: Brad Weeks

By: _____

Rosamond Community Services Districts

By: _____

Approved as to form by: Eric L. Garner

By: _____

Desert Lake Community Services District

By: _____

Approved as to form by: Wayne Lemieux

By: _____

North Edwards Water District

By: Debbie D. Kostopoulos

Approved as to form by: Wayne Lemieux

By: Wayne Lemieux

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EXHIBIT B

EXHIBITS B & D: NON-APPEARING PARTIES

Name	Answer / Appearance Date	DKT No
Romo Lake Los Angeles Partnership	12/8/2005	
Unison Investment, LLC	1/12/2006	
Landfield, Richard E.	11/13/2006	333
Kaufman, Lilian	12/20/2006	368
Kaufman, Lilian, trustee of Lilian Kaufman Trust	12/20/2006	368
Schwartz, Martin B., trustee of Burroughs Family Trust	12/21/2006	372
Cumming, Ruth A. as Ttee of the Cumming Family Trust	12/21/2006	373
Gabuya, Rodrigo L.	12/27/2006	379
David A, And Dorothy Kagon	12/27/2006	380
Kahlo, Jack D	12/27/2006	382
Gorrindo, Maria B.	12/27/2006	383
Bowers, David L.	12/28/2006	388
Recht, Patricia Anne	12/28/2006	390
Bowers, Ronald E.	12/28/2006	391
Gabrych, Eugene	12/28/2006	392
Gabrych, Marian	12/28/2006	393
Qarmout, Elias	12/28/2006	394
Airtrust Singapore Private	12/28/2006	395
ABC Williams Enterprises, LP	12/28/2006	396
Myers, Marilyn Burgess	12/28/2006	397
Katz, Marianne, trustee of the Katz Trust	12/29/2006	399
Katz, Herbert, trustee of the Katz Trust	12/29/2006	401
Hui, John	12/29/2006	402
United Holdings Corp.	12/29/2006	403
Loving, Robert A.	12/29/2006	404
Riggins, Patricia	12/29/2006	406
Jung, N. Tom	1/2/2007	410
Epsilon Development Co.	6/25/2007	
Prewoznik, Marilyn J.	5/22/2007	638
Prewoznik, Marilyn J., trustee of Prewoznik Trust	5/22/2007	638
Anaverde LLC	6/20/2007	673
Harris, Steven	7/9/2007	737
Britton Associates LLP	7/9/2007	737
Shokrian, Elias	7/10/2007	741
Bujulian Brothers	1/8/2008	1103
Antelope Valley Country Club	2/7/2008	1173
Cameron Properties	3/7/2008	1218
Gateway Triangle Properties	9/26/2008	2065
Bloom, Melody	9/13/2008	2014
Saloman, Franklin R., trustee Frankie Salomon Trust	9/23/2008	2051
EnXco Development Co	9/23/2008	2054
Eastly, Phillip	9/24/2008	2058
Gillman, Melinda	9/30/2008	2095
Melvin T. & Margaret E. Andrews, trusttees Andrews Trust	10/3/2008	2131

Max Webb Trust	10/20/2008	2161
John and Dora Buruchin	10/27/2008	2196
Robert D. and Shirley B. Raney	10/27/2008	2196
Three Arklin LLC	10/29/2008	2201
Mountain Brook Ranch LLC	10/29/2008	2202
Shakib, Kamram	12/2/2008	2299
Andrews, Franklin	6/23/2009	2923
Andrews, Treba	6/23/2009	2924
Lebata Inc.	7/8/2009	2965
Murphy, Patty	7/26/2009	3011
Balice, Norman	7/28/2009	3013
Balice, Maria	7/28/2009	3013
Chan, Hawk Nin	9/9/2009	3095
Collicut. Ikuko	9/9/2009	3096
Cabahug, Arlene	9/17/2009	3099
Cernicky, Florence, trustee of Cernicky Trust	10/27/2009	3171
Angelo And Dolores M. Cassara, Trustees Cassara Trust	10/27/2009	3171
Gaskell Suntower, LLC	7/8/2010	3689
Arklin Brother Enterprises	12/21/2010	4183
E.C. Wheeler	3/7/2011	4319
Cal Golf Inc.	12/10/2012	5398
Davis, Robert Glen	7/10/2014	9029
Antelope Valley Progressive Club	8/13/2014	9115
Annette And Bennie E. Moore	9/3/2014	9215
M&M Peach Ranch	10/3/20I4	9342
Goodyork Corp	8/6/2015	10295
Lancaster Summit Properties, LTD.	8/6/2015	10295
Hooshpack Dev Inc.	9/28/2015	10677
Renassiance Perinatal Medical Group	9/28/2015	10677
Jones, Robert A.	9/22/2005	1
Godde, Forrest	9/22/2005	1 / 411
Calandri, B.J.	11/28/2005	45 / 411
Calandri, Barbara J.	12/13/2007	1068
Godde, Lawrence	11/28/2005	45 / 411
Kootenai Properties	11/28/2005	45 / 411
Kyle, James	11/28/2005	45 / 411
Kyle, Wanda E.	11/28/2005	45 / 411
Hines Family trust	3/17/2006	174 / 411
Malloy Family Partners	3/17/2006	174 / 411
Santoro, Marygrace H.	3/17/2006	174 / 411
Stathatos, Helen	3/17/2006	174 / 411
Stathatos, Savas	3/17/2006	174 / 411
Groven, Dennis L.	12/1/2006	341 / 411
Groven, Majorie E.	12/1/2006	341 /411
Harter, Scott S.	12/1/2006	341 /411
Harter, Kay B.	12/1/2006	341 /411
Javadi, Habod	12/1/2006	341 /411

Kindig, Beverly A.	12/1/2006	341 / 411
Kindig, Eugene V.	12/1/2006	341 /411
Kindig, Paul S.	12/1/2006	341 /411
Kindig, Sharon R.	12/1/2006	341 /411
Tobias, Beverly	1/2/2007	411
Simi, Leo	1/2/2007	411
William Barnes & Eldora Barnes Fam Trust	1/2/2007	411
Gorrindo Family Trust	12/10/2010	4069
Cameo Ranching Co.	1/28/2011	4250
Kremen, Dr. Samuel	2/10/2011	4270
Son Rise Farms	1/18/2012	4758
Chavez, Luz	1/18/2012	4758
Zomorodi, Ramin	1/18/2012	4758
Genz Development & Castle Ranch Estate	1/18/2012	4758
Barnes, William	1/18/2012	4758
Barnes, Julie	1/18/2012	4758
Gorrindo, Robert	1/18/2012	4758
Gorrindo, Phillip	1/18/2012	4758
Healy Farms	1/18/2012	4758
Nelson, Michael	1/18/2012	4758
Wilson, Harold	2/6/2012	4814
Ritter, Edgar	11/28/2005	45
Paula Ritter	11/28/2005	45
Paula Ritter, as Trustee of the Ritter Family Trust	11/28/2005	45
Mark Ritter, successor trustee of the Ritter Family Trust	9/3/2015	10388

EXHIBIT C

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

ANTELOPE VALLEY GROUNDWATER CASES

This Judgment Relates to Included Action: RICHARD WOOD, on behalf of himself and all others similarly situated,

Plaintiff,

v.

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 40, et al.

Defendants.

JUDICIAL COUNCIL

COORDINATION PROCEEDING NO. 4408

Case No. BC 391869

~~[proposed]~~ JUDGMENT APPROVING SMALL PUMPER CLASS ACTION SETTLEMENTS

THE 2013 PARTIAL SETTLEMENT

By Order dated December 11, 2013, the Court approved the Motion for Final Approval of Settlement for the Small Pumper Class Stipulation of Settlement dated October 17, 2013 (the "2013 Partial Settlement"),[1] by and between City of Lancaster, Palmdale Water District, Phelan Piñon Hills Community Services District, and Rosamond Community Services District, (collectively, "2013 Settling Defendants"), and Richard Wood, on behalf of himself and the Class defined below, in the matter styled *Richard Wood v. Los Angeles County Waterworks District No. 40 et al.*, Los Angeles Superior Court Case Number BC391869 ("Small Pumper Class Action"). Having reviewed and considered the terms and conditions of the 2013 Partial Settlement; having reviewed and heard any timely filed objections to the 2013 Partial Settlement after notice to the class in accordance with the preliminary approval order; and having reviewed and considered the motion of Class Counsel for an award of attorneys' fees and costs and for an award of compensation to Richard Wood, and having reviewed and considered all opposing papers, the Court approved the 2013 Partial Settlement, based in part, upon the pertinent findings below, and as further reflected in the record for the hearings.

THE 2015 SETTLEMENT

On March 4, 2015, Class Counsel filed Small Pumper Class Stipulation of Settlement, dated February 24, 2015 (the "2015 Settlement"), to which was attached as and incorporated therein as Exhibit A, the Stipulation for Entry of Judgment and Physical Solution. The 2015 Settlement was entered into between Richard Wood, on behalf of the Small Pumper Class, on the one hand, and California Water Service Company, City of Palmdale, Desert Lake Community Services District, Littlerock Creek Irrigation District, Los Angeles Waterworks District No. 40 Palm Ranch Irrigation District, and Quartz Hill Water District ("2015 Settling Defendants").[2]

---

[1] Any capitalized terms in this Judgment that are not defined herein are accorded the definitions set forth in the Settlement Agreements, and exhibits thereto.

[2] The 2013 Settling Defendants and the 2015 Settling Defendants are jointly referred to below as the "Settling Defendants." Richard Wood, the Small Pumper Class Members, and the Settling Defendants are hereinafter referred to as the "Settling Parties."

After reviewed and considered the terms and conditions of the 2015 Settlement and exhibits thereto; having reviewed and heard any timely filed objections to the 2015 Settlement after notice to the class in accordance with the preliminary approval order and having reviewed and considered all opposing papers; the Court conditionally approved it, as further set forth in the Court's Order of August 4, 2015, as well as the hearing transcript of that date. The Court subsequently heard evidence and argument in support of and in opposition to the claims presented by various parties, as the proposed Judgment and Physical Solution. On November 4, 2015, the Court issued its oral tentative decision granting final approval to the 2015 Settlement. The Court's ruling is explained in the resulting Statement of Decision.

In support of this Judgment, which covers all claims contained in the Small Pumper Class Action, all of which are resolved by the 2013 Partial Settlement and the 2015 Settlement, the Court makes the following FINDINGS:

A. The Court has jurisdiction over all parties to the Settlement Agreement including Class members who did not timely opt out of the Settlement.

B. For over 15 years, a number of actions have been pending in the Los Angeles County Superior Court and other California courts seeking an adjudication of various parties' respective rights to the groundwater underlying the Antelope Valley Groundwater Basin (the "Basin").

C. Several of these actions were coordinated by the California Judicial Council, by order dated July 11, 2005, and assigned to the Honorable Jack Komar of the Superior Court for the County of Santa Clara (the "Court").

D. The Court held the first phase of trial in October of 2006 for the purpose of determining the boundaries of the Basin for the purposes of these coordinated actions, and did so by an Order dated November 3, 2006.

E. The Small Pumper Class Action was filed on June 3, 2008 against certain public water entities asserting claims for declaratory relief, quiet title, and various claims related to the alleged taking of water rights. The Small Pumper Class action was subsequently added to the

Coordinated Cases.

F. By order of September 2, 2008, the Court certified the Small Pumper Class, appointed Richard Wood as Class representative, and the Law Offices of Michael D. McLachlan APC and the Law Office of Daniel M. O'Leary as counsel for the Class. By that Order, the Court defined the Class as:

> All private (i.e. non-governmental) persons and entities that own real property within the Basin, as adjudicated, and that have been pumping less than 25 acre-feet per year on their property during any year from 1946 to the present. The Class excludes the defendants herein, any person, firm, trust, corporation, or other entity in which any defendant has a controlling interest or which is related to or affiliated with any of the defendants, and the representatives, heirs, affiliates, successors-in-interest or assigns of any such excluded party. The Class also excludes all persons and entities that are shareholders in a mutual water company.

G. Notice of the pendency of this class action was initially provided to the Class by mail and publication, with a final opt out date of December 4, 2009.

H. On October 25, 2013, the Court issued an order preliminarily approving the 2013 Partial Settlement. Notice of this Settlement was provided in accordance with the Court's order preliminarily approving the settlement and the terms of the Settlement Agreement. Notice was given in an adequate and sufficient manner, and constituted the best practicable notice under the circumstances. Those class members who timely opted out of this Partial Settlement, or in response to the initial class notice in 2009 (and who did not subsequently opt back into the Class) are not bound by the settlements or this Judgment (but may be bound by the final judgment in these coordinated proceedings). On or about January 7, 2014, the Court approved the 2013 Partial Settlement between the Small Pumper Class and the 2013 Settling Defendants.

I. On April 6, 2015, the Court issued an order preliminarily approving the 2015 Settlement. Notice of this Settlement was provided in accordance with the Court's order preliminarily approving the settlement and the terms of the Settlement Agreement. Notice was given in an adequate and sufficient manner, and constituted the best practicable notice under the

circumstances, as set forth in the Declarations of Jennifer M. Keogh and Michael D. McLachlan, both filed June 4, 2015. No class member timely filed an objection to the 2015 Settlement.

J. The 2013 Partial Settlement and the 2015 Settlement are both a product of good faith, arm's length negotiations between the Representative Plaintiff and the Settling Defendants and their counsel, which occurred over a lengthy period of time in this litigation. The 2013 Partial Settlement and the 2015 Settlement, as provided in the Settlement Agreements, are in all respects fair, reasonable, adequate and proper, as between the Settling Parties, and in the best interests of the Class.

K. All members of the Class who did not opt out of the Class shall be subject to all the provisions of the 2013 Partial Settlement, the 2015 Settlement, and this Judgment as entered by the Court (the "Settlement Class" members). The known Small Pumper Class members are listed in Exhibit A, attached hereto.

On the basis of the foregoing findings and the submissions referred to above, IT IS HEREBY ORDERED ADJUDGED AND DECREED:

1. The Settling Parties are released forever as to the Released Claims as provided for in the Settlement Agreement. Any claims or rights not specifically released are retained by the Settling Parties.

2. The Settlement Class members and their heirs, successors, assigns, executors or administrators are permanently barred and enjoined from instituting, commencing, prosecuting, any Released Claim against any of the Released Parties in any forum, other than claims to enforce the terms of the Settlement Agreement. Each member of the Settlement Class has waived and fully, finally and forever settled and released, upon this Judgment becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery of different or additional facts.

3. The Settling Defendants and their heirs, successors, assigns, executors or administrators are permanently barred and enjoined from instituting, commencing, prosecuting,

any Released Claim against any of the Released Parties in any forum, other than claims to enforce the terms of the Settlement Agreement. Each Settling Defendant has waived and fully, finally and forever settled and released, upon this Judgment becoming final, any known or unknown, suspected or unsuspected, contingent or non-contingent Released Claim, whether or not concealed or hidden, without regard to the subsequent discovery of different or additional facts.

4. Any prescriptive rights the Settling Defendants may have cannot be exercised to reduce any Overlying Rights the Settlement Class members may have.

5. The Small Pumper Class members are bound by the Judgment and Physical Solution, and their rights and obligations are relative to future groundwater use are set forth therein.

6. The Settling Parties are ordered to timely comply with all other provisions of the 2013 Partial Settlement and the 2015 Settlement.

7. Without affecting the finality of this Judgment, the Court hereby reserves and retains jurisdiction over the 2013 Partial Settlement and the 2015 Settlement, including administration of the Settlement Agreements, as well as any action, proceeding or motion brought to enforce the Settlement Agreements, as well as the ultimate determination of the Settling Parties' water rights. The Settling Parties are subject to the jurisdiction of this Court for any suit, action, proceeding or dispute arising out of or relating to this Judgment or the Settlement Agreement.

8. The Court will address the award of attorneys' fees, costs and expenses, the incentive award to Richard Wood, as well as the future scope of Class Counsel's duties to the Small Pumper Class, in a separate order after entry of judgment and the filing of the appropriate noticed motion(s).

Dated: December 23, 2015

Judge of the Superior Court

Exhibit A to Judgment Approving Small Pumper Class Action Settlements:

List of Known Small Pumper Class Members for Final Judgment

LIST OF KNOWN SMALL PUMPER CLASS MEMBERS FOR FINAL JUDGMENT

name_addr_1	name_addr_2	name_addr_3	name_addr_4	city	state	zipcode
1100 EDGEWATER INC	1281 WESTWOOD BLVD STE 210			LOS ANGELES	CA	90024-4814
20TH STREET PROPERTIES	43301 DIVISION ST			LANCASTER	CA	93535-4647
3M PROPERTY INVESTMENT CO	2016 PASEO DEL MAR			PALOS VERDES ESTATES	CA	90274-2659
533 N MARIPOSA LLC	16830 VENTURA BLVD STE 100			ENCINO	CA	91436-1721
6210 SOUTH VERMONT LLC	3701 WILSHIRE BLVD	STE 535		LOS ANGELES	CA	90010-2831
6210 SOUTH VERMONT LLC	3701 WILSHIRE BLVD	STE 535		LOS ANGELES	CA	90010-2831
A.C. WARNACK	C/O INVESTMENT MNGMT.	45730 DIVISION STREET		LANCASTER	CA	93535
A1 WORLD WHOLESALE COMPANY INC	833 S WESTERN AVE STE 101			LOS ANGELES	CA	90005-3387
AAA TRUCK WASH	6052 FRY ST APT B			BELL GARDENS	CA	90201-4762
AARON SCOBIE	40056 CASTANA LN			PALMDALE	CA	93551
AARON SEARCY	24210 JOSHUA AVE			BORON	CA	93516-1323
ABBEY GASSEMI	1602 CHURCH ST			SIMI VALLEY	CA	93065-3979
ABEL PEREZ	38602 31ST ST E			PALMDALE	CA	93550-4206
ABOUDAGHER HOSSAN	10235 E AVENUE E8			LANCASTER	CA	93535-8001
ABRAHAM GAZMEN	18700 LEMAY ST			RESEDA	CA	91335-5214
ABRAHAM ZUNO	25186 PATTERSON RD			LANCASTER	CA	93536-9606
ACCREDITED HOME LENDERS INC	12075 ROSSITER AVE			SYLMAR	CA	91342-5256
ADAM DYER	8301 MOJAVE AVE			ROSAMOND	CA	93560-7188
ADARSH ARORA	5936 LEMP AVE			N HOLLYWOOD	CA	91601-1025
ADELA ALAS	3476 STATEVIEW BLVD			FORT MILL	SC	29715-7203
ADELAIDA CASTANON	3425 DAKOTA ST			ROSAMOND	CA	93560-7604
ADELE ALONSO	123 CONGRESS ST			ORANGE	MA	01364-1640
ADEOLU OYENUSI	15830 SILVER SPRINGS DR			CHINO HILLS	CA	91709-7847
ADOLPH GONZALES	25104 LAGUNA HONDA			HEMET	CA	92544-3367
ADRIAN PEREZ	45210 70TH ST E			LANCASTER	CA	93535-8308
ADRIANA ESCALANTE	212 E AVENUE K6 STE 330			LANCASTER	CA	93535-4565
AERO SPORTS SKYPARK CORP	4171 KNOX AVE			ROSAMOND	CA	93560-6420
AGNES LIPE	5264 MOHAVE DR			SIMI VALLEY	CA	93063-2008
AGUILAR MAURICIO A / ZARAGOZA PATRICIA	916 E 24TH ST			LOS ANGELES	CA	90011-1615
AGUILAR MIGUEL G	10345 E PALMDALE BLVD			PALMDALE	CA	93591-2300
AGUSTIN CABRALES	14400 MELODY LN			ROSAMOND	CA	93560-7006
AIC PARTNERSHIP	3917 TRIMAR CT			SAN JOSE	CA	95111-1583
AIDA BARNEY	PO BOX 1706			SCOTTSBLUFF	NE	69363-1706
AIDA BUCAGO	4134 E BAINBRIDGE AVE			ANAHEIM	CA	92807-2823
AIDA TORRES	PO BOX 6922			LANCASTER	CA	93539-6922
AIDA WALLS	2019 E OLDFIELD ST			LANCASTER	CA	93535-1728
AIDAN CONROY	30215 185TH ST E			LLANO	CA	93544
AIRY KLAUDT	24208 SAGE AVE			BORON	CA	93516-1334
ALAN COMPTON	10721 PINECREST MESA RD			LITTLEROCK	CA	93543-4226
ALAN NUNNENKAMP	7551 GASKELL RD			ROSAMOND	CA	93560-7028
ALAN PARKER	119 8TH ST			SEAL BEACH	CA	90740-6303
ALAN REIL	14801 CHIPWOOD CT			MAGALIA	CA	95954-9014
ALAN WILLHITE	22847 W AVENUE D STE 6			LANCASTER	CA	93536-9262
ALATORRE	10911 BERRY AVE			ANAHEIM	CA	92804-6311
ALBA TABLAS	5120 RELA WAY W			QUARTZ HILL	CA	93536-2509
ALBERT BAKER	35130 WYSE RD			AGUA DULCE	CA	91390-4654
ALBERT BLIGHT	2076 65TH ST W			ROSAMOND	CA	93560-6535
ALBERT LEE	135 W GREEN ST STE 100			PASADENA	CA	91105-4131
ALBERT LEE	560 S SANTA ANITA AVE			SAN MARINO	CA	91108-1417
ALBERT LEE	560 S SANTA ANITA AVE			SAN MARINO	CA	91108-1417
ALBERT MAUPIN	7350 E AVENUE K			LANCASTER	CA	93535-8627
ALBERT MILLER	8016 SWEETSER RD			ROSAMOND	CA	93560-7156
ALBERTO ANDRADE	5807 UNIVERSITY AVE			SAN DIEGO	CA	92115-6295
ALBERTO TOVAR	403 GRISWOLD AVE			SAN FERNANDO	CA	91340-2473
ALCIDA GIBSON	PO BOX 901896			PALMDALE	CA	93590-1896
ALDEN CARDER	6120 E AVENUE G			LANCASTER	CA	93535-7809
ALDOUS PABON	315 S HARVARD BLVD APT 210			LOS ANGELES	CA	90020-6311
ALEINE DOLE	38610 140TH ST E			PALMDALE	CA	93591-2500
ALEJANDRA ACOSTA	43019 57TH ST W			LANCASTER	CA	93536-5652
ALEJANDRO TELLO	828 ROSE AVE			VENICE	CA	90291-2832
ALESE BELL	1541 STUART ST			CAMBRIA	CA	93428-5921
ALETHA GROSSMAN	PO BOX 947			LITTLEROCK	CA	93543-0947
ALEXANDRA PANAGOULIAS	150 ALLEGHENY CENTER MALL			PITTSBURGH	PA	15212-5335
ALEXIS RAMIREZ	2017 MORNING GLORY ST			SIMI VALLEY	CA	93065-3548
ALFONSO MUNOZ	26342 RAINBOW GLEN DR			NEWHALL	CA	91321-1393
ALFONSO SALGADO	47027 70TH ST W			LANCASTER	CA	93536-8531
ALFONSO SOSA	13440 SUNDANCE AVE			WHITTIER	CA	90605-3449
ALFRED BILLYZONE	542 E AVENUE G			LANCASTER	CA	93535-5900
ALFRED HORMOZIAN	10623 ATLANTA AVE			NORTHRIDGE	CA	91326-2901
ALFRED JACKS	15953 SPUNKY CANYON RD			SANTA CLARITA	CA	91390-4907
ALFREDO MARQUEZ	6765 CHERRY AVE			LONG BEACH	CA	90805-1716
ALFREDO STEPHANI	4601 ELIZABETH LAKE RD			LEONA VALLEY	CA	93551-7503
ALICE CROSBY	18320 STERLING PL			COTTONWOOD	CA	96022-8037
ALICE GOMES	1163 N ALEXANDRIA AVE			LOS ANGELES	CA	90029-1407
ALICE HARRIS	PO BOX 802352			SANTA CLARITA	CA	91380-2352
ALICE MARTIN	PO BOX 384			PEARBLOSSOM	CA	93553-0384
ALICE MATLOCK	25830 CHERRYHILL DR			BORON	CA	93516-1203
ALICIA LERMA	2571 57TH ST W			ROSAMOND	CA	93560-6541
ALICIA MARTINEZ	9748 COZYCROFT AVE STE J			CHATSWORTH	CA	91311-4400
ALISON COLEMAN	13335 E AVENUE W11			PEARBLOSSOM	CA	93553-3213
ALISON KAPUSTA	24155 JOSHUA AVE			BORON	CA	93516-1320
ALISON TODD	9764 SAMOA AVE			TUJUNGA	CA	91042-3122
ALL NATIONS CHURCH	10000 FOOTHILL BLVD			SYLMAR	CA	91342-7040
ALL NATIONS INTERNATIONAL	44505 90TH ST W			LANCASTER	CA	93536-7705

ALLAN ANDREWS	PO BOX 6224	LANCASTER	CA	93539-6224
ALLAN BAIRD	24147 SAGE AVE	BORON	CA	93516-1331
ALLEN FRANK / LORRI BAUSTON	14660 E PALMDALE BLVD	PALMDALE	CA	93591-2938
ALLEN ROBINSON	7485 NEW HORIZON WAY BLDG 3	FREDERICK	MD	21703-8388
ALLISON DINNGER	800 70TH ST W	ROSAMOND	CA	93560-7060
ALLISON RHODEN	PO BOX 1280	PEARBLOSSOM	CA	93553-2280
ALLRED LOUIS R SR / ALLRED KAREN L	50496 65TH ST W	LANCASTER	CA	93536-9556
ALMA OERTLY	8439 COSTELLO AVE	PANORAMA CITY	CA	91402-3724
ALMA TATLONGHARI	7711 GENTRY AVE	N HOLLYWOOD	CA	91605-2856
ALMAS MANORI	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
ALTAMIRANO FRANCISCO / ALTAMIRANO SANDRA	45835 110TH ST E	LANCASTER	CA	93535-8503
ALTON HALE	PO BOX 11007	BAKERSFIELD	CA	93389-1007
ALVARADO MARIA I	45420 60TH ST W	LANCASTER	CA	93536-8322
ALVIN ANDRES	745 GARFIELD ST	SAN FRANCISCO	CA	94132-2622
ALVIN NAGUIAT	7485 NEW HORIZON WAY BLDG 3	FREDERICK	MD	21703-8388
ALYCE MILLER	22021 PRAIRIE ST	CHATSWORTH	CA	91311-5723
AMADA DELACRUZ	36556 CALICO WAY	PALMDALE	CA	93550-8450
AMANDA FOX	24329 TAMARISK AVE	BORON	CA	93516-1349
AMANTHA FLORES	1600 KAPALUA DR	OXNARD	CA	93036-7761
AMARA MUHAMMAD	6900 BEATRICE DR	KALAMAZOO	MI	49009-9559
AMARANT JEREMY / AMARANT ALBA W	40813 SLATE CT	PALMDALE	CA	93551-1805
AMBER LANEY	12650 INGENUITY DR	ORLANDO	FL	32826-2703
AMBROSE GENEVIEVE	48825 120TH ST E	LANCASTER	CA	93535-8010
AMELIA DELACRUZ	7485 NEW HORIZON WAY BLDG 3	FREDERICK	MD	21703-8388
AMELIA ESPINOZA	2944 65TH ST W	ROSAMOND	CA	93560-6925
AMELIA GOMEZ	4034 E CALLE SAN RAPHAEL	PALM SPRINGS	CA	92264-1306
AMELSITO YESSI	3109 E AVENUE K4	LANCASTER	CA	93535-4946
AMER ISLAMIC INSTITUTE ANTELOPE VALLEY	PO BOX 902846	PALMDALE	CA	93590-2846
AMERICAN LEGION POST NO 311	PO BOX 311	LANCASTER	CA	93584-0311
AMERICAN PERFORMANCE ENGINEERING INC	PO BOX 749	TEHACHAPI	CA	93581-0749
AMERICAN TOWERS INC	PO BOX 3122	LANDERS	CA	92285-0122
AMILCAR BADANO	1210 E BROADWAY	GLENDALE	CA	91205-1408
AMIR KOSSARIAN	PO BOX 606	LAKE HUGHES	CA	93532-0606
AMIRALI KASAM	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
AMIRH LOZANI	6626 MICHAELJOHN DR	LA JOLLA	CA	92037-6239
AMMONS JOEL	37715 STANDISH PL	PALMDALE	CA	93551-6951
AMPARO REYES	800 STATE HIGHWAY 121 BYP	LEWISVILLE	TX	75067-4180
AMSBERRY ANITA L / BRIEN TIMOTHY L	13361 E AVENUE D8	LANCASTER	CA	93535-8016
AMY BREWER	4545 E AVENUE S4	PALMDALE	CA	93552-5202
AMY DAMRON	PO BOX 1951	LANCASTER	CA	93539-1951
AMY DAMRON	PO BOX 1951	LANCASTER	CA	93539-1951
AMY FINCH	PO BOX 2311	GILBERT	AZ	85299-2311
AMY GREGORY	10735 LEONA AVE	LEONA VALLEY	CA	93551-7304
AMY STOLL	2546 KOR AVE	MORRO BAY	CA	93442
ANA CALZADA	17262 E AVENUE R	PALMDALE	CA	93591-3702
ANA CINCO	43718 32ND ST E	LANCASTER	CA	93535-6217
ANA RIVERA	9008 LEMONA AVE	NORTH HILLS	CA	91343-5515
ANA RIVERA	2548 E AVENUE K	LANCASTER	CA	93535-5504
ANABELLE CHIRINOS	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
ANABELLE FARMER	402 E AVENUE R5	PALMDALE	CA	93550-5229
ANATOLY VALUSHKIN	13910 OLD HARBOR LN APT 307	MARINA DL REY	CA	90292-7334
ANDRADA TOMMY E SR / ANDRADA REMEDIOS	49509 35TH ST W	LANCASTER	CA	93536-9502
ANDRE CAESAR	3543 W 119TH CT	INGLEWOOD	CA	90303-2921
ANDREA BYERLY	PO BOX 1687	ROSAMOND	CA	93560-1687
ANDREA JONES	2946 130TH ST W	ROSAMOND	CA	93560-7294
ANDREA NAVARRO	6767 CHERRY AVE STE 1	LONG BEACH	CA	90805-1716
ANDREONI RANDY E	48751 245TH ST W	LANCASTER	CA	93536-9121
ANDRES RODRIGUEZ	PO BOX 1	LLANO	CA	93544-0001
ANDRES ROJAS	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
ANDREW BLUA	38220 170TH ST E	PALMDALE	CA	93591-3606
ANDREW BROOKS	PO BOX 5776	LANCASTER	CA	93539-5776
ANDREW CALLAHAN	1338 60TH ST W	ROSAMOND	CA	93560-6975
ANDREW CARNEY	1401 99TH ST W	ROSAMOND	CA	93560-7090
ANDREW SAY	26785 WYATT LN	STEVENSON RANCH	CA	91381-1001
ANDREW SAY	26785 WYATT LN	STEVENSON RANCH	CA	91381-1001
ANEL ZARATE	6900 BEATRICE DR	KALAMAZOO	MI	49009-9559
ANGEL COOKE	7531 GASKELL RD	ROSAMOND	CA	93560-7028
ANGEL GARCIA	9509 FELTON AVE	INGLEWOOD	CA	90301-3615
ANGEL VASQUEZ	2917 VIRGINIA AVE	SANTA MONICA	CA	90404-5031
ANGEL WARNER	1788 65TH ST W	ROSAMOND	CA	93560-6911
ANGELA BRIDGES	PO BOX 532823	LOS ANGELES	CA	90053-2823
ANGELA CHONG	18214 CHATHAM LN	NORTHRIDGE	CA	91326-3611
ANGELA KAY	10790 RANCHO BERNARDO RD	SAN DIEGO	CA	92127-5705
ANGELA SUPPE	18030 GASKELL RD	ROSAMOND	CA	93560-7194
ANGELA VALDIVIA	4627 SWEETSER RD	ROSAMOND	CA	93560-6454
ANGELES MISTY M / ANGELES ANDRES D JR	46415 60TH ST E	LANCASTER	CA	93535-7828
ANGELIA LOPEZ	5539 S WISHING WELL WAY	FORT MOHAVE	AZ	86426-8880
ANGELICA VIRGEN	PO BOX 1804	ROSAMOND	CA	93560-1804
ANITA RAMIREZ	630 N VERNON AVE	AZUSA	CA	91702-2835
ANITA SMITH	12532 BERNADETTE ST	HANSEN HILLS	CA	91331-2035
ANITA TALBOT	9 RUSTLER LN	ROLLING HILLS ESTATES	CA	90274-1543
ANN MOORE	PO BOX 943	ROSAMOND	CA	93560-0943
ANN SUMPTER	24225 JOSHUA AVE	BORON	CA	93516-1322
ANNA BEARD	PO BOX 3869	HUNTINGTON BEACH	CA	92605-3869
ANNA DENSING	PO BOX 1512	ROSAMOND	CA	93560-1512
ANNA KENT	6009 CHARMAIN ST	BAKERSFIELD	CA	93313-3665
ANNE MASON	PO BOX 1346	ROSAMOND	CA	93560-1346

ANNETTE AGUIRRE	11874 PASEO LUCIDO APT 1061		SAN DIEGO	CA	92128-6282
ANNETTE CADDY	5310 E HARCO ST		LONG BEACH	CA	90808-1922
ANNIA LEE	2648 DORAY CIR		MONROVIA	CA	91016-5082
ANNIE CHEN	19757 STAGG ST		WINNETKA	CA	91306-2651
ANNIE CHOI	25269 THE OLD RD STE B		STEVENSON RNH	CA	91381-2202
ANNIE GIBSON	16785 STAGECOACH AVE		PALMDALE	CA	93591-3214
ANNIE TRAN	624 S LASSEN CT		ANAHEIM	CA	92804-3123
ANTELOPE VALLEY CATTLE	PO BOX 2468		LANCASTER	CA	93539-2468
ANTELOPE VALLEY CATTLE AND	PO BOX 2468		LANCASTER	CA	93539-2468
ANTELOPE VALLEY COUNTRY CLUB	39800 COUNTRY CLUB DR		PALMDALE	CA	93551-2970
ANTHONY CASELLA	PO BOX 23		LLANO	CA	93544-0023
ANTHONY FASO	9081 BUCKHORN AVE		ROSAMOND	CA	93560-7274
ANTHONY FIORELLA	900 BIRMINGHAM RD		BURBANK	CA	91504-1911
ANTHONY GALEAZZI	131 YORK ST		ROSAMOND	CA	93560-7067
ANTHONY HURTZ	24451 SAGE AVE		BORON	CA	93516-1337
ANTHONY LEE	18162 PARKVIEW LN APT 208		HUNTINGTN BCH	CA	92648-5604
ANTHONY RUTE	PO BOX 2182		ROSAMOND	CA	93560-2182
ANTOINE DOLBAKIAN	6327 ETHEL AVE		VAN NUYS	CA	91401-2524
ANTONE DAVIS	18832 OAK RIDGE DR		SANTA ANA	CA	92705-2252
ANTONIA REYES	13315 E AVENUE E8		LANCASTER	CA	93535-8023
ANTONINO ANCHETA	7711 BELLAIRE AVE		N HOLLYWOOD	CA	91605-2114
ANTONIO AMBRIZ	8671 MADISON AVE		MIDWAY CITY	CA	92655-1130
ANTONIO GUZMAN	0 99-080 OLOPARIA ST		AIEA	HI	96701
ANTONIO LOPEZ	43944 SAN FRANCISCO AVE		LANCASTER	CA	93535-5888
ANTONIO MAGPANTAY	20801 TRIBUNE ST		CHATSWORTH	CA	91311-1531
ANTONIO PEREZ	37712 210TH ST E		PALMDALE	CA	93591-4514
ANTONIO ROMERO	6022 EL DORADO AVE		ROSAMOND	CA	93560-6564
ANTONIO SEGURA	5961 MARGARITHA LN		ROSAMOND	CA	93560-6916
ANTONIO TRUJILLO	1530 SAN ANDRES ST		SANTA BARBARA	CA	93101-4104
APOLINAR GALLARDO	11960 E AVENUE S		LLANO	CA	93544
APOLINAR TORRES	45153 110TH ST W		LANCASTER	CA	93536-9007
APPLETON WILLIAM R	APPLETON JACQUELINE S	11841 JUNIPER HILLS RD	LITTLEROCK	CA	93543-4207
APRIL SYREK	75 CAPRA WAY APT 305		SAN FRANCISCO	CA	94123-1542
ARCELIA SEGURA	5800 HIDDEN TRAIL RD		ROSAMOND	CA	93560
ARCELLA DUNGAN	28575 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3423
ARCHDALE DONALD / ARCHDALE CHERYL	12647 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3453
ARCHIE HINCHEN	PO BOX 5056		LANCASTER	CA	93539-5056
AREFAINE ABRAHAM / AREFAINE DARLENE	37206 THE GRVS		PALMDALE	CA	93551-6234
ARGENT MORTGAGE COMPANY LLC	PO BOX 11000		SANTA ANA	CA	92711-1000
ARIEL CUMIGAD	PO BOX 1281		LANCASTER	CA	93584-1281
ARKLIN PHILIP H; CRISTINA	ARKLIN PHILIP M /TR	30081 VALYERMO RD	VALYERMO	CA	93563
ARLENE COPELAND	PO BOX 1244		ROSAMOND	CA	93560-1244
ARLETTE SMITH	309 N BALDY VISTA AVE		GLENDORA	CA	91741-6606
ARLIN BROWN	8549 UNDERWOOD AVE		CALIF CITY	CA	93505-3857
ARMANDO CORONA	10239 MCNERNEY AVE		SOUTH GATE	CA	90280-6707
ARMANDO GONZALEZ	10735 AQUA VISTA ST		N HOLLYWOOD	CA	91602-3206
ARMIDA CLOSSER	PO BOX 14506		IRVINE	CA	92623-4506
ARNEL AGLUGUB	25755 HAWTHORNE PL		STEVENSON RNH	CA	91381-1452
ARNULFO SANDOVAL	PO BOX 955		ROSAMOND	CA	93560-0955
ARREN SMOOT	5402 COLONY GREEN DR		SAN JOSE	CA	95123-1469
ARSEN SARIAN	PO BOX 4658		WEST HILLS	CA	91308-4658
ARTHUR KENNETH E / ARTHUR K ; J /TR	17850 W AVENUE E8		LANCASTER	CA	93536-9717
ARTHUR KIDD	122 W 61ST ST		LOS ANGELES	CA	90003-1402
ARTHUR LOMBARD	PO BOX 929		ROSAMOND	CA	93560-0929
ARTHUR LUCERO	2830 DAVENPORT ST		ROSAMOND	CA	93560-6515
ARTHUR MUNOZ	500 W SANTA MARIA ST	SPC 31	SANTA PAULA	CA	93060-4283
ARTURO SERRANO	3102 E AVENUE K4		LANCASTER	CA	93535-4933
ASAD YAVARI	2812 58TH ST W		ROSAMOND	CA	93560
ASADOLLAH YAVARI	2613 DIAMOND ST		ROSAMOND	CA	93560-6176
ASCO GOLDEN LAND INC	2241 SERRANO PL		FULLERTON	CA	92833-1849
ASDRUBAL LOPEZ	2003 FITZGERALD BLVD		EDWARDS	CA	93523
ASHLOCK DONALD J / ASHLOCK BILLIE J	47322 180TH ST W		LANCASTER	CA	93536-9055
ASIA INVESTMENT GROUP LLC	223 N ORANGE AVE		MONTEREY PARK	CA	91755-2033
ASSET BACKED TRUST AMQ 2006-HE7	39540 CHANTILLY LANE		PALMDALE	CA	93551-1010
ATKINS THOMAS W / ATKINS WENDY A	32043 LARGO VISTA RD		LLANO	CA	93544-1441
AUDRA BURGESS	PO BOX 2145		ROSAMOND	CA	93560-2145
AURA MORENO	48841 E 12TH ST		LANCASTER	CA	93535
AURELIO ALATORRE	5377 ELDER AVE		ROSAMOND	CA	93560-6904
AURORA LN SVCS	327 INVERNESS DR S		ENGLEWOOD	CO	80112-6012
AURORA LOAN SERVICES LLC	327 INVERNESS DR S		ENGLEWOOD	CO	80112-6012
AUSTIN ANTHONY	50651 182ND ST W		LANCASTER	CA	93536-9287
AUTOMOTIVE RENTALS INC	PO BOX 6333		MAGNA	UT	84044-6333
AUTRY 1992 TRUST	42016 35TH ST W		LANCASTER	CA	93536-6717
AUTUMN WEIGAND	285 GREEN MOOR PL		THOUSAND OAKS	CA	91361-1162
AVELO MORTGAGE LLC	250 E JOHN CARPENTER FWY STE 300		IRVING	TX	75062-2710
AVTWO HOMES LLC	1000 DOVE ST STE 100		NEWPORT BEACH	CA	92660-2822
AYERS LIONEL / AYERS WANDOLYN	44538 70TH ST E		LANCASTER	CA	93535-8311
AYNDREA BEALMER	2833 55TH ST W		ROSAMOND	CA	93560-6539
B CHANCELLOR	43006 BLOOMINGPARK ST		LANCASTER	CA	93536-4645
BACHAN KAUR	19532 GIFFORD ST		RESEDA	CA	91335-8024
BAILEY ROBERT E / BAILEY KARIN L	10710 SILVERWIND AVE		LANCASTER	CA	93536-7720
BALDERAS ROSIE / GUERRERO SAMUEL	47634 DIVISION ST		LANCASTER	CA	93535-6502
BALRAJ SINGH	13034 DEAR CANYON CT		SAN DIEGO	CA	92131-4220
BANC OF AMERICA LEASING & CAPITAL LLC	PO BOX 6333		MAGNA	UT	84044-6333
BANIQUED NYLER / BANIQUED ARACELI	3555 W AVENUE J		LANCASTER	CA	93536-6201
BANK OF AMERICA	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
BANK OF N Y TRS	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391

BAOQUOC NGUYEN	8547 CAPE COD AVE		FOUNTAIN VALLEY	CA	92708-5018
BARAKAT ABDUL	6312 SEABISCUT PL		MOORPARK	CA	93021-9794
BARBA CHARLIE / BARBA SONIA	2321 EVENING PRIMROSE AVE		PALMDALE	CA	93551-4184
BARBARA BENCHOFF	PO BOX 618		PEARBLOSSOM	CA	93553-0618
BARBARA BERGER	PO BOX 900		LITTLEROCK	CA	93543-0900
BARBARA BRAZIL	4702 W AVENUE M14		QUARTZ HILL	CA	93536
BARBARA CASH	23125 ERIEL AVE		TORRANCE	CA	90505-3155
BARBARA CLARY	3807 SIERRA HWY STE 6		ACTON	CA	93510-1256
BARBARA CULBERTSON	3930 LA MARADA WAY		KLAMATH FALLS	OR	97603-7713
BARBARA DURIAN	1705 BRIDGEPORT AVE		CLAREMONT	CA	91711-2519
BARBARA HALL	3645 W 113TH ST		INGLEWOOD	CA	90303-2709
BARBARA HICKSMCAFEE	14356 PINNACLE CT		SANTA CLARITA	CA	91387-2215
BARBARA JARVIS	12491 EL MIRAGE ST		BORON	CA	93516-1354
BARBARA KNOX	1316 CORONADO DR		BOULDER CITY	NV	89005-2206
BARBARA MARKS	PO BOX 111		BORON	CA	93596-0111
BARBARA MELVIN	38901 230TH ST E		PALMDALE	CA	93591-4706
BARBARA MITCHELL	45740 95TH ST W		LANCASTER	CA	93536-8004
BARBARA MOSS	1049 CINNAMON RANCH RD		BISHOP	CA	93514-9481
BARBARA MURPHY	2135 N OXNARD BLVD		OXNARD	CA	93036-2362
BARBARA PENN	2346 W AVENUE N8		PALMDALE	CA	93551-2373
BARBARA REIL	14801 CHIPWOOD CT		MAGALIA	CA	95954-9014
BARBARA ROGERS	PO BOX 2320		ROSAMOND	CA	93560-2320
BARBARA VILARDO	27800 MCBEAN PKWY APT 249		VALENCIA	CA	91354-1437
BARBARA WILLIAMS	2709 MOONWORT TERRACE		PALMDALE	CA	93551-6176
BARBRA HOLT	16197 H ST	APT 189	MOJAVE	CA	93501-1530
BARDLEY WEEKS	1031 W AVENUE M14	STE A	PALMDALE	CA	93551-1457
BARNES RAY E / BARNES SARAH E	5425 W AVENUE E12		LANCASTER	CA	93536
BARNETTE HOWARD	14650 BIG SKY DR		PEARBLOSSOM	CA	93553-3437
BARR CLOSSON	645 TABOR LN		SANTA BARBARA	CA	93108-1536
BARR GARY W / BARR SUSAN S	13006 E AVENUE H		LANCASTER	CA	93535-8722
BARREL SPRINGS PROPERTIES, LLC	C/O CAROL R. SEVILLA	1719 CALIFORNIA AVENUE	SANTA MONICA	CA	90403
BARRY OLSON	PO BOX 10		PEARBLOSSOM	CA	93553-0010
BAUDELIO SANCHEZ	20315 E AVENUE R		PALMDALE	CA	93591-4516
BAUMGARTNER GAIL IRENE TR	ATTN: GAIL BAUMGARTNER	10082 LESLIE AVE	ROSAMOND	CA	93560-7079
BAXTER WALLACE J / BAXTER TINA M	10510 W AVENUE I		LANCASTER	CA	93536-8016
BAYSHORE LLC ET AL	1925 CENTURY PARK E STE 1160		LOS ANGELES	CA	90067-2712
BEATRICE COLLINS WILTON	PO BOX 105		ROSAMOND	CA	93560-0105
BEATRICE DERRICK	8847 E AVENUE G12		LANCASTER	CA	93535-7905
BEATRICE REID	24122 JUNIPER AVE		BORON	CA	93516-1328
BEATRIZ GALVAN	121 N CHEVY CHASE DR STE B		GLENDALE	CA	91206-4522
BEAULIEU KERRY	10745 PINECREST MESA RD		LITTLEROCK	CA	93543-4226
BEAZER HOMES HOLDING CORP	1100 W TOWN AND COUNTRY RD		ORANGE	CA	92868-4600
BECKWITH LESLIE C	36700 PICKFAIR ST	APT 3	CATHEDRAL CTY	CA	92234-1323
BEHJAT NOBEL	11208 CHALON RD		LOS ANGELES	CA	90049-1719
BEHROOZ JADIDOLLAH	8605 AIRDROME ST		LOS ANGELES	CA	90035-4409
BEHZAD MANZOOR	715 METROPOLITAN AVE		OKLAHOMA CITY	OK	73108-2088
BEL AIR INVESTORS LTD	19311 VANOWEN ST FL 2		RESEDA	CA	91335-5023
BELL TR	4652 SWEETSER RD		ROSAMOND	CA	93560-6454
BELLA LOPEZ	11808 FELLOWS AVE		SAN FERNANDO	CA	91340-1812
BELLO LORENA / BELLO JOSEPH	37200 THE GRVS		PALMDALE	CA	93551-6234
BENCH MICHAEL L / BENCH TERRIE L	7200 W AVENUE H		LANCASTER	CA	93536-8112
BENDELL WILLIAM G / BENDELL DONNA G	4560 CINNABAR AVE		PALMDALE	CA	93551-1854
BENDER RAWN M	7155 W AVENUE H		LANCASTER	CA	93536-8113
BENEDICT ROBERT / BENEDICT JULIE	3217 E AVENUE G		LANCASTER	CA	93535-7709
BENEDICTO CASTILLO	8918 GAYNOR AVE		NORTH HILLS	CA	91343-3013
BENHAM DAVID W / BENHAM MARY E	49505 60TH ST W		LANCASTER	CA	93536-9555
BENJAMIN EASTER	35820 165TH ST E		LLANO	CA	93544-1114
BENJAMIN GREENE	4444 E AVENUE R SPC 14		PALMDALE	CA	93552-6705
BENJAMIN TAYLOR	6120 ARMAGA SPRING RD		RCH PALOS VRD	CA	90275-4803
BENJAMINA KARLIS	797 BOXTHORN AVE		NEWBURY PARK	CA	91320-5331
BENNETT BARNEY	11207 LINDA MESA RD		JUNIPER HILLS	CA	93543-4224
BERCHTOLD EQUIPMENT COMPANY INC	PO BOX 6333		MAGNA	UT	84044-6333
BERDA BYRD	35317 87TH ST E		LITTLEROCK	CA	93543-3119
BERGER STEVEN / BERGER BARBARA	PO BOX 900		LITTLEROCK	CA	93543-0900
BERKSHIRE INV CO	11650 BANNER MOUNTAIN TRL		NEVADA CITY	CA	95959-8830
BERNADINE VACTOR	4957 VISTA DE ORO AVE		LOS ANGELES	CA	90043-1653
BERNARD CALVERT	2109 W AVENUE N8		PALMDALE	CA	93551-2370
BERNARD ROCCA	4775 61ST ST W		ROSAMOND	CA	93560-6566
BERNARD WILLIAMS	41813 PICO WAY		PALMDALE	CA	93551-4721
BERNARDINO HILDALGO	14523 SW MILLIKAN WAY STE 200		BEAVERTON	OR	97005-2352
BERNARDO BANUELOS	11635 SATICOY ST		NORTH HOLLYWOOD	CA	91605-2945
BERNICE COOPER	6057 SWEETSER RD		ROSAMOND	CA	93560-6550
BERNSTEIN EVAN	37121 THE GRVS		PALMDALE	CA	93551-6233
BERRY GORDON ; GERTRUDE / BERRY FAMILY	250 S PASADENA AVE	UNIT 3071	PASADENA	CA	91105-1871
BERT WHITFIELD	29112 S HIGHMORE AVE		RCH PALOS VRD	CA	90275-2024
BERTCH STABELL	572 60TH ST W		ROSAMOND	CA	93560-6956
BERTHA CEDILLOS	13160 E AVENUE J		LANCASTER	CA	93535-8709
BERTHA MC KINNEY	24218 JUNIPER AVE		BORON	CA	93516-1329
BEST ROBERT J / BEST JANET	20502 W AVENUE D		LANCASTER	CA	93536-9265
BETHEL WOODS	46047 20TH ST E		LANCASTER	CA	93535-6002
BETTY CRIM	8756 SVL BOX		VICTORVILLE	CA	92395-5179
BETTY DOSS	43301 33RD ST E		LANCASTER	CA	93535-4949
BETTY FITZPATRICK	5711 GOBI AVE		ROSAMOND	CA	93560-6990
BETTY GAMBONE	2813 GEARY ST SE		ALBANY	OR	97322-5511
BETTY LANCASTER	PO BOX 1085		ROSAMOND	CA	93560-1085
BETTY LOEHR	5457 60TH ST W		ROSAMOND	CA	93560-6584
BETTY MILLER	27095 JEROME ST		BORON	CA	93516-1631

BETTY RIDGWAY	5141 61ST ST W		ROSAMOND	CA	93560-6464
BETTY SPENCER	2112 STRATFORD DR UNIT B		MONTROSE	CO	81401-5220
BEULAH CANFIELD	PO BOX 309		LITTLEROCK	CA	93543-0309
BEVERLEE BERG	PO BOX 146		LITTLEROCK	CA	93543-0146
BEVERLY BELLANCA	5841 CATHY AVE		ROSAMOND	CA	93560-7233
BEVERLY BURGES	333 LAKECHIME DR		SUNNYVALE	CA	94089-2536
BEVERLY BURKITT	PO BOX 3535		LANDERS	CA	92285-0535
BEVERLY EKHOLM	PO BOX 4		VALYERMO	CA	93563-0004
BEVERLY JOSEPH	2126 HILLSTONE DR		SAN JOSE	CA	95138-2413
BEVERLY PAULEY	5356 62ND ST W		ROSAMOND	CA	93560
BEVERLY RUSSELL	PO BOX 1759		ROSAMOND	CA	93560-1759
BIBLE HOLINESS CHURCH	8409 IMPERIAL HWY		DOWNEY	CA	90242-3832
BIEHL JEFFREY R / BIEHL JENNIFER R	11601 BEAUCOURT LN		LITTLEROCK	CA	93543
BIENVENIDO GEALON	3239 W 154TH ST		GARDENA	CA	90249-4015
BIENVENIDO VEN	577 POHAKU ST		KAHULUI	HI	96732-1713
BIERYLA WALTER M / BIERYLA FAMILY	46975 60TH ST E		LANCASTER	CA	93535-7856
BIGGERSTAFF	1571 57TH ST W		ROSAMOND	CA	93560-6915
BIGNALL	5401 W AVENUE A		ROSAMOND	CA	93560-6985
BILL L. HILL	C/O CYNTHIA PANDOLFI ESQ.	608 HAILEY COURT	SIMI VALLEY	CA	93065
BILL TOMPKINS	12764 HOLIDAY AVE		ROSAMOND	CA	93560-7163
BILLIE CONNER	12301 EL MIRAGE ST		BORON	CA	93516-1316
BILLY BELL	44149 BEGONIA ST		LANCASTER	CA	93535
BILLY HENDERSON	18123 AVENUE A		NORTH EDWARDS	CA	93523-3311
BILLY MEESE	332 HIGHLAND DR		OXNARD	CA	93035-4413
BILLYZONE ALFRED / BILLYZONE EURALARY	542 E AVENUE G		LANCASTER	CA	93535-5900
BINH NGUYEN	15217 SEVERYNS RD		TUSTIN	CA	92782-1797
BINKLEY ROBERT L / BINKLEY TERESA M	4514 CINNABAR AVE		PALMDALE	CA	93551-1854
BITSKO STEPHEN M / BITSKO JENNIFER R	48104 100TH ST E		LANCASTER	CA	93535-7916
BLADEN TUFTS DIANA L	11116 JUNIPER MESA RD		LITTLEROCK	CA	93543-3601
BLANCA ELDRIDGE	1000 TECHNOLOGY DR MS 314		O FALLON	MO	63368-2239
BLANCA GARCIA	20618 COHASSET ST		CANOGA PARK	CA	91306-2807
BLANCA PINEDA	2129 60TH ST W		ROSAMOND	CA	93560-6560
BLANKET INDUSTRIES INC	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
BLUFORD ROWLAND	5204 61ST ST W		ROSAMOND	CA	93560-6479
BOB DAVIS	24273 SAGE AVE		BORON	CA	93516-1333
BOBBIE BLUE	16771 ALEXANDER AVE		EDWARDS	CA	93523-3525
BOBBIE SEARCY	24100 CHAPARRAL AVE		BORON	CA	93516-1304
BOBBY OWEN	5333 E AVENUE G		LANCASTER	CA	93535-7815
BOEWER ROBERT ; COLLEEN / BOEWER FAMILY	10750 4 WINDS RD		LITTLEROCK	CA	93543-3643
BOK LEE	1648 W 12TH PL		LOS ANGELES	CA	90015-1906
BONES JACK JR / BONES KATHY	12100 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4200
BONES NANCY	217 LUCAS AVE	APT 3	LOS ANGELES	CA	90026-6128
BONG CHANG	3671 W 6TH ST		LOS ANGELES	CA	90020-3026
BONG PARK	924 S CARONDELET ST	APT 110	LOS ANGELES	CA	90006-1953
BONITA CHANEY	PO BOX 432		MOJAVE	CA	93502-0432
BONNIE DEXTER	27454 ANNETTE JO CIR		SANTA CLARITA	CA	91350-1703
BONNIE DUGAR	2410 CHESTNUT AVE		LONG BEACH	CA	90806-2913
BONNIE LARGE	PO BOX 949		LAKE HUGHES	CA	93532-0949
BONNIE STEEN	1931 FELICIDAD DR		LAKE HAVASU CITY	AZ	86404-1000
BOOKER MARGARET L	18525 W AVENUE E4		LANCASTER	CA	93536-9048
BOOKMAN THOMAS M; JULIE A	BOOKMAN THOMAS; JULIE /TR	46806 120TH ST E	LANCASTER	CA	93535-8732
BORDEN DAVID J / BORDEN ; AVADIAN /TR	14720 BIG SKY DR		PEARBLOSSOM	CA	93553-3436
BOWIE ZELMA J / BOWIE VERNON L	47644 40TH ST W		LANCASTER	CA	93536-9569
BOWMAN RYAN H / BOWMAN KAREN E	40820 SLATE CT		PALMDALE	CA	93551-1805
BOYD WILLIAM R / BOYD PAMELA S	35625 LEMBO LN		PALMDALE	CA	93550-9233
BRADFORD GAGE	24303 CHAPARRAL AVE		BORON	CA	93516-1307
BRANCH DANIEL J / BRANCH ROSEMARIE	12410 LANCASTER RD		LANCASTER	CA	93536-9013
BRANDON CHRETIEN	8306 WILSHIRE BLVD STE 1812		BEVERLY HILLS	CA	90211-2382
BRANDON FORD	3501 JAMBOREE RD		NEWPORT BEACH	CA	92660-2939
BRAULIO PINA	24125 TAMARISK AVE		BORON	CA	93516-1345
BRECKENRIDGE CARL / BRECKENRIDGE FAMILY	5640 W AVENUE A		ROSAMOND	CA	93560-7125
BRENDA REEDER	26855 ANDERSON ST		BORON	CA	93516-1507
BRENDA SABORIO	PO BOX 56178		SHERMAN OAKS	CA	91413-1178
BRENDA WILSON	884 RUTH DR		PLEASANT HILL	CA	94523-1918
BRIAN BENNETT	12079 HOYT ST		SYLMAR	CA	91342-6442
BRIAN COLEMAN	PO BOX 751		PEARBLOSSOM	CA	93553-0751
BRIAN DAVIES	PO BOX 10		VALYERMO	CA	93563-0010
BRIAN ELDRIDGE	1000 TECHNOLOGY DR MS 314		O FALLON	MO	63368-2239
BRIAN GREGORY	10735 LEONA AVE		LEONA VALLEY	CA	93551-7304
BRIAN LOGAN	31969 EMERALD LN		CASTAIC	CA	91384-3102
BRIAN LUEDTKE	2148 58TH ST W		ROSAMOND	CA	93560-6976
BRIAN VILLALVA	4566 E AVENUE J		LANCASTER	CA	93535-8230
BRIDGET KEOGH	15635 FERNVIEW ST		WHITTIER	CA	90604-3338
BRIGGS JOEL E / BRIGGS PATRICIA S	PO BOX 8127		LANCASTER	CA	93539-8127
BRIOSO JOSE	45920 47TH ST E		LANCASTER	CA	93535-7725
BRISSON KERRY; CHERIE	BRISSON K J; C A /TR	45442 70TH ST W	LANCASTER	CA	93536-8327
BRITTANY ALBRECHTA	235 CAGEL ST		ROSAMOND	CA	93560-6905
BROC JOB	24348 JOSHUA AVE		BORON	CA	93516-1356
BROCK FERGUSSON	25749 DINKEY AVE		LANCASTER	CA	93536-9612
BRODEK TERRY SR	6545 E AVENUE H		LANCASTER	CA	93535-7803
BROFFEL ROBERT	11201 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4219
BROS COOK	PO BOX 94303		PASADENA	CA	91109-4303
BROWN ARBIE A / BROWN KATHLEEN	50137 40TH ST W		LANCASTER	CA	93536-9505
BRUCE ALLEN	9401 NALL AVE STE 202		PRAIRIE VILLAGE	KS	66207-2508
BRUCE DRAKE	1335 FELICITA LN		ESCONDIDO	CA	92029-6631
BRUCE GARY	PO BOX 580		ROSAMOND	CA	93560-0580
BRUCE HAILSTONE	5008 W AVENUE L		QUARTZ HILL	CA	93536-4339

BRUCE HASS	1055 EL MEDIO AVE		PACIFIC PLSDS	CA	90272-2420
BRUCE NELSON	PO BOX 554		BORON	CA	93596-0554
BRUCE PAXTON	40254 17TH ST W		PALMDALE	CA	93551-3213
BRUCE SILMON	PO BOX 9336		CANOGA PARK	CA	91309-0336
BRUCE STEWART	26032 TOURELLE PL		VALENCIA	CA	91355-1995
BRUTON MYRTICE	46400 120TH ST E		LANCASTER	CA	93535-8730
BRYAN HICKS	6107 SWEETSER RD		ROSAMOND	CA	93560-6573
BRYAN LA MOUREAUX	24427 JOSHUA AVE		BORON	CA	93516-1326
BRYAN OLGIN	26967 PATTERSON RD		LEBEC	CA	93243
BUCKALLEW MONTY R	37134 THE GRVS		PALMDALE	CA	93551-6232
BUDD CHRIS / BUDD JULIE	50725 70TH ST W		LANCASTER	CA	93536-9578
BUDI KUSNOTO	1246 S STATE ST		CHICAGO	IL	60605-2405
BUJULIAN BROTHERS INC	291 N 6TH AVE		KINGSBURG	CA	93631-9425
BULMARO SANCHEZ	6180 EAST AVENUE E		LANCASTER	CA	93535
BUNNY BROWN	13445 FRAN ST		NORTH EDWARDS	CA	93523-3424
BURCH BRUCE / COREEN SAVIKKO	20538 E AVENUE Q12		PALMDALE	CA	93591-4503
BURGESS RUSSELL A; LORI A	BURGESS FAMILY	40806 COBBLESTONE CT	PALMDALE	CA	93551-1849
BURNETT REALTY INC TR	6090 SEPULVEDA BLVD STE 250		CULVER CITY	CA	90230-6410
BURTON BROS INC	9120 SAN JUAN PL		LA MESA	CA	91941-5644
BURTON WHITE	6409 SWEETSER RD		ROSAMOND	CA	93560-6355
C JENKINS	6465 SWEETSER RD		WILLOW SPRINGS	CA	93560-6355
C KLECHEFSKI	1112 LAKEMOOR DR		SAINT PAUL	MN	55129-5307
CALANDRI JOHN ; S 1992 TRUST	40445 27TH ST W		PALMDALE	CA	93551-2402
CALANDRI PARTERSHIP	6135 W AVENUE M8		PALMDALE	CA	93551-1608
CALDERA JOSE J	48601 265TH ST W		LANCASTER	CA	93536-9093
CALDWELL DAVID W / CALDWELL MARIAN F	44240 MUNIZ RANCH RD		LAKE HUGHES	CA	93532
CALER ROBERT	49225 45TH ST W		LANCASTER	CA	93536-9507
CALIFORNIA PORTLAND CEMENT CO	2025 E FINANCIAL WAY		GLENDORA	CA	91741-4692
CALKINS	PO BOX 371		ROSAMOND	CA	93560-0371
CALL GREGORY B / CALL SHELMADINE	26147 E AVENUE U10		LLANO	CA	93544-1586
CALLIE MURPHY	PO BOX 334		ROSAMOND	CA	93560-0334
CALLIS TRACY L / WARE LEON II	40810 SILTSTONE CT		PALMDALE	CA	93551-1853
CALVERT JOHN M / CALVERT CHRISTINE M	19460 LANCASTER RD		LANCASTER	CA	93536-9022
CALVIN DUNCAN	13011 CIMARRON AVE		GARDENA	CA	90249-1739
CALVIN GUMS	326 RUBERTA AVE	# A	GLENDALE	CA	91201-2749
CAMDEN KNIGHT	44331 36TH ST W		LANCASTER	CA	93536-6224
CAMELLIA TRUST	PO BOX 3836		CHATSWORTH	CA	91313-3836
CAMERON PROPERTIES INC	973 E BADILLO ST STE A		COVINA	CA	91724-2947
CAMERON PROPERTIES INC	973 E BADILLO ST STE A		COVINA	CA	91724-2947
CAMPOS JULIO	23410 E AVENUE Z		LLANO	CA	93544
CANDACE CASTELLANOS	PO BOX 940		WELDON	CA	93283-0940
CANDACE DEPONTE	2763 W AVENUE L PMB 200		LANCASTER	CA	93536-4074
CANDELARIO CALVILLO	12160 CLARETTA ST		SYLMAR	CA	91342-6006
CANDICE GERBER	5714 COUNTY ROAD 502		BAYFIELD	CO	81122-9007
CARCAMO FELIX R / HERNANDEZ DAMARIS Y	8363 W AVENUE I		LANCASTER	CA	93536-8106
CARDENAS RICARDO / CARDENAS IRMA	4750 HALEN ST		PALMDALE	CA	93552-3740
CARI SCHNARRENBERGER	7830 GASKELL RD		ROSAMOND	CA	93560-7276
CARL MELVIN	165 GRANDE VISTA ST		OAK VIEW	CA	93022-9709
CARLETON REYNOLDS	29867 WISTERIA VALLEY RD		SANTA CLARITA	CA	91387-1942
CARLO SERRATO	37227 GIAVON ST		PALMDALE	CA	93552-4756
CARLOS ACOSTA	43019 57TH ST W		LANCASTER	CA	93536-5652
CARLOS ESCOBAR	8807 SOPHIA AVE		NORTH HILLS	CA	91343-4719
CARLOS IBARRA	1201 71ST ST W		ROSAMOND	CA	93560-7033
CARLOS JOSE / CARLOS BERTHA	40051 200TH ST E		PALMDALE	CA	93591-3900
CARLOS LANTING	18349 SUMMER AVE		ARTESIA	CA	90701-5526
CARLOS MELGOZA	8963 CAYUGA AVE		SUN VALLEY	CA	91352-2412
CARLOS NUNEZ	PO BOX 1115		ROSAMOND	CA	93560-1115
CARLOS RAMIREZ	30900 106TH ST E		LITTLEROCK	CA	93543-3661
CARLOS TABLAS	5120 RELA WAY W		QUARTZ HILL	CA	93536-2509
CARLOS VIVAS	13505 SATICOY ST	APT 1	PANORAMA CITY	CA	91402-6437
CARLSON SHARRON L	28659 LAURIE LN		PALMDALE	CA	28659
CARLSON STEPHEN W / CARLSON VIRGINIA C	9820 CIMA MESA RD		JUNIPER HILLS	CA	93543-3634
CARLTON PENN	2346 W AVENUE N8		PALMDALE	CA	93551-2373
CARMELITE SISTERS OF THE	920 E ALHAMBRA RD		ALHAMBRA	CA	91801
CARMEN DOMINGUEZ	47904 30TH ST E		LANCASTER	CA	93535-7613
CARMEN HERNANDEZ	511 MOSS ST		CHULA VISTA	CA	91911-1706
CARMEN HOWARD	42911 DENVIEW DR		LAKE HUGHES	CA	93532-1336
CAROL BAIRD	24147 SAGE AVE		BORON	CA	93516-1331
CAROL BASS	445 HAMILTON AVE FL 8		WHITE PLAINS	NY	10601-1807
CAROL BIEVER	4626 N CALVADOS AVE		COVINA	CA	91722-2756
CAROL COMPTON	10721 PINECREST MESA RD		LITTLEROCK	CA	93543-4226
CAROL HILL	22853 W AVENUE D11		LANCASTER	CA	93536-9110
CAROL HILL	31858 CASTAIC RD # 175		CASTAIC	CA	91384-3943
CAROL MANNINO	5206 VALLEY VIEW RD		RANCHO PALOS VERDES	CA	90275-5060
CAROL MORRIS	47930 26TH ST E		LANCASTER	CA	93535-7605
CAROL MORRIS	2513 100TH ST W # 3		ROSAMOND	CA	93560-7010
CAROL MORRIS	47930 26TH ST E		LANCASTER	CA	93535-7605
CAROL NELSON	24437 TAMARISK AVE		BORON	CA	93516-1351
CAROL POLLOCK	1250 SUGARBUSH DR		VISTA	CA	92084-7462
CAROL ROBERTS	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
CAROL ROKEY	1801 65TH ST W		ROSAMOND	CA	93560-6521
CAROL TANNER	7943 CATHY AVE		ROSAMOND	CA	93560-8204
CAROL ZIEHLER	11936 WICKS ST		SUN VALLEY	CA	91352-1907
CAROLE WYATT	7834 DINKEY AVE		ROSAMOND	CA	93560-7053
CAROLINE LENHART	1219 W AVENUE I		LANCASTER	CA	93534-2247
CAROLYN ASENDORF	PO BOX 720140		PINON HILLS	CA	92372-0140
CAROLYN FORTE	527 FRANKLIN PL		MONROVIA	CA	91016-1519

CAROLYN HORTON	12018 ALLIN ST		CULVER CITY	CA	90230-5803
CARPENTER PRESTON H	40000 140TH ST E		PALMDALE	CA	93591-1602
CARREON TOMAS M / CARREON MARY E	46715 121ST ST E		LANCASTER	CA	93535-8733
CARREON TOMAS M JR / CARREON MARY E	6210 E AVENUE E		LANCASTER	CA	93535-7854
CARROLL DAUGHERTY	16115 COOLWATER AVE		PALMDALE	CA	93591-3043
CARROLL WETZEL	7738 BACKUS RD		MOJAVE	CA	93501-7162
CARTUS FINANCIAL CORPORATION	27271 LAS RAMBLAS		MISSION VIEJO	CA	92691-6386
CARY SEARCY	24100 CHAPARRAL AVE		BORON	CA	93516-1304
CASEY ALESSO	48009 70TH ST E		LANCASTER	CA	93535-7840
CASEY ALESSO	48009 70TH ST E		LANCASTER	CA	93535-7840
CASHBAUGH TRUST	1290 100TH ST W		ROSAMOND	CA	93560-7266
CASILLAS ALBERTO / CASILLAS YOLANDA	6358 E AVENUE E		LANCASTER	CA	93535-7845
CASTANEDA ROBERTO / CASTANEDA GUADALUPE	7057 W AVENUE H		LANCASTER	CA	93536-8100
CASTELLANOS ARNALDO E	CASTELLANOS NEYDA	40823 SLATE CT	PALMDALE	CA	93551-1805
CASTELLANOS MANUEL G	CASTELLANOS MARY F	20310 PEARBLOSSOM HWY	LLANO	CA	93544-1406
CASTILLE THERESE M	4638 E AVENUE H		LANCASTER	CA	93535-7718
CATALINA DIAZ	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
CATEY HAROLD	24463 JOSHUA AVE		BORON	CA	93516-1326
CATHERINE GUTIERREZ	2113 60TH ST W		ROSAMOND	CA	93560-6560
CATHERINE MAXWELL	5784 FELSITE AVE		ROSAMOND	CA	93560-6451
CATHERINE MONTANO	5872 HIDDEN TRAIL RD		ROSAMOND	CA	93560-6917
CATHERINE MORRIS	PO BOX 8794		EMERYVILLE	CA	94662-0794
CATHERINE TOMINAGA	6368 N WILLARD AVE		SAN GABRIEL	CA	91775-1833
CATHI STRADER	23328 CUESTPORT DR		VALENCIA	CA	91354-1926
CATHY DRAEGER	9531 WARBURTON DR		HUNTINGTN BCH	CA	92646-3629
CATHY HOUSE	5491 TEHACHAPI WILLOW SPRINGS RD		ROSAMOND	CA	93560-7504
CATHY MORENO	5980 VALLEY SAGE RD		ACTON	CA	93510-1027
CATHY ROBERG	PO BOX 902245		PALMDALE	CA	93590-2245
CAUDILL JANICE E	17020 E AVENUE S4		LLANO	CA	93544-1415
CECIL MC DONALD	2316 67TH ST W		ROSAMOND	CA	93560-7230
CECILIA ELLIOTT	7435 35TH ST W		MOJAVE	CA	93501-7304
CECILIA ESTEBAN	9407 BURNET AVE		NORTH HILLS	CA	91343-2306
CECILIA HSU	26 SANTA CRUZ		ROLLING HILLS ESTATES	CA	90274-5402
CECILIA MARCIANO	2696 SASHA CT		SIMI VALLEY	CA	93063-2245
CECILIA MOON	25269 THE OLD RD STE B		STEVENSON RANCH	CA	91381-2202
CECILIA TOVAR	403 GRISWOLD AVE		SAN FERNANDO	CA	91340-2473
CEDRIC HASSON	43031 FAIRLEE DR		LANCASTER	CA	93536-4605
CELESTE BURTON	PO BOX 7		HASTINGS	OK	73548-0007
CELIA CONTRERAS	23588 W AVENUE D # D		LANCASTER	CA	93536-9259
CELIA ELIZALDE	26042 E AVENUE U8		LLANO	CA	93544-1584
CELIA EYLER	1155 71ST ST W		ROSAMOND	CA	93560-7032
CELINA MOLINA	23120 W AVENUE C		LANCASTER	CA	93536-9735
CELINDA CORDS	2899 DAVENPORT ST		ROSAMOND	CA	93560-6921
CENTRAL MORTGAGE COMPANY	801 JOHN BARROW RD STE 1		LITTLE ROCK	AR	72205-6511
CESAR QUEBRAL	26138 SALINGER LN		STEVENSON RANCH	CA	91381-1107
CESENA MICHAEL G / WALTERS ANNA T	40818 SILTSTONE CT		PALMDALE	CA	93551-1853
CHAI JOTIKASTHIRA	28304 MOUNT STEPHEN AVE		CANYON CNTRY	CA	91387-3141
CHAKO ANDRE L ; MARGARET / CHAKO FAMILY	120 E AVENUE F10		LANCASTER	CA	93535-6407
CHALFONT TRUST	PO BOX 3836		CHATSWORTH	CA	91313-3836
CHANDRA WARFIELD	39797 AVENIDA MIGUEL OESTE		MURRIETA	CA	92563-5294
CHANDRIKA DESILVA	18924 STRATHERN ST		RESEDA	CA	91335-1122
CHANEY PAUL R	152 E AVENUE F10		LANCASTER	CA	93535-6407
CHANEY TROY T	21640 E AVENUE O		PALMDALE	CA	93591-4100
CHANG FAMILY TRUST	3671 W 6TH ST		LOS ANGELES	CA	90020-3026
CHANG JAE Y	29916 104TH ST E		LITTLEROCK	CA	93543-3615
CHANTHAN EK	250 E JOHN CARPENTER FWY STE 300		IRVING	TX	75062-2710
CHANTHAN EK	801 JOHN BARROW RD STE 1		LITTLE ROCK	AR	72205-6599
CHAO PAO TSAI / WEI CHING	44713 31ST ST W		LANCASTER	CA	93536-8368
CHARISSE CROSBY	6672 HOLIDAY AVE		ROSAMOND	CA	93560-6569
CHARITO GERMONO	744 LINCOLN AVE UNIT A		ALAMEDA	CA	94501-3314
CHARLA ANDERSON	2401 W 46TH ST		ROSAMOND	CA	93560
CHARLA TAYLOR	2550 E AVENUE I SPC 110		LANCASTER	CA	93535-1024
CHARLANNE TAYLOR	PO BOX 1450		ROSAMOND	CA	93560-1450
CHARLENE LANE	41031 40TH ST W		PALMDALE	CA	93551-1246
CHARLENE LANE	41031 40TH ST W		PALMDALE	CA	93551-1246
CHARLENE LANE TR	42220 10TH ST W STE 101		LANCASTER	CA	93534-7075
CHARLENE LYELL	PO BOX 161		HARTVILLE	MO	65667-0161
CHARLENE MELCHERS	2941 60TH ST W		ROSAMOND	CA	93560-6386
CHARLES AMENTO	PO BOX 1121		NORTH EDWARDS	CA	93523-1121
CHARLES ANYADIKE	537 S FLOWER ST	APT 2	INGLEWOOD	CA	90301-5596
CHARLES CRAIG	PO BOX 2553		ROSAMOND	CA	93560-2553
CHARLES CUMMINGS	HCR 3 BOX 226		ROSAMOND	CA	93560
CHARLES FRANCOEUR	3334 LONGRIDGE TER		SHERMAN OAKS	CA	91423-4932
CHARLES HOUSTON	5301 60TH ST W		ROSAMOND	CA	93560-6265
CHARLES JOHNSON	24373 TAMARISK AVE		BORON	CA	93516-1349
CHARLES KELLEY	24218 CHAPARRAL AVE		BORON	CA	93516-1306
CHARLES KOPENEC	2326 FARGO ST		LOS ANGELES	CA	90039-3127
CHARLES LANE	207 127TH ST W		ROSAMOND	CA	93560-8202
CHARLES LAWRENCE	PO BOX 48054		WATAUGA	TX	76148-0054
CHARLES LENNOX	PO BOX 7		PEARBLOSSOM	CA	93553-0007
CHARLES MATHEWS	5394 61ST ST W		ROSAMOND	CA	93560-6533
CHARLES NORRIS	1024 DELAWARE RD		BURBANK	CA	91504-3025
CHARLES PEGS	4859 W SLAUSON AVE STE 279		LOS ANGELES	CA	90056-3209
CHARLES SCARLETT	4245 MOUNT VERNON DR		LOS ANGELES	CA	90008-4819
CHARLES SCOTT	7330 GILA CT		PALMDALE	CA	93551-4719
CHARLES TAPIA	21083 PLACERITA CANYON RD		NEWHALL	CA	91321-1924
CHARLES THOMAS	24264 TAMARISK AVE		BORON	CA	93516-1348

CHARLES TOWLES	6515 S VERMONT AVE		LOS ANGELES	CA	90044-3627
CHARLOTTE BREED	1760 100TH ST W		ROSAMOND	CA	93560
CHARLOTTE MANUELL	24740 MILL VALLEY WAY		CARSON	CA	90745-6454
CHARLOTTE STOLLAR	7527 W AVENUE L11		LANCASTER	CA	93536-7387
CHASE JPMORGAN	1100 VIRGINIA DR		FORT WASHINGTON	PA	19034-3204
CHAVEZ EFREN / CHAVEZ LUZ	18192 E AVENUE O		PALMDALE	CA	93591-3804
CHENHUANG ZHENRU	2075 WOODSIDE RD		REDWOOD CITY	CA	94061-3338
CHERISA SAUNDERS	3605 LONG BEACH BLVD # 12		LONG BEACH	CA	90807-4013
CHERNG SU	9927 OLIVE CT		TEMPLE CITY	CA	91780-3200
CHERRIE HASTINGS	6359 SWEETSER RD		ROSAMOND	CA	93560-6555
CHERYL HORST	3170 N BUTTERCUP CIR		FREDERICK	CO	80516-9456
CHERYL HOST	3170 N BUTTERCUP CIR		FREDERICK	CO	80516-9456
CHERYL MILLER	12401 EL MIRAGE ST		BORON	CA	93516-1318
CHERYL TACK	1197 HUDSPETH ST		SIMI VALLEY	CA	93065-4559
CHERYL WATSON	PO BOX 1025		MOJAVE	CA	93502-1025
CHESTER WIENCEK	PO BOX 531883		LOS ANGELES	CA	90053-1883
CHEVY CHASE BK FSB	6151 CHEVY CHASE DR		LAUREL	MD	20707-2918
CHIEN LEE	PO BOX 741156		LOS ANGELES	CA	90004-9156
CHIN HEI KYUNG	ATTN: KYUNG CHIN HEI	PO BOX 825	AZUSA	CA	91702-0825
CHINWE UJU	11733 KILLIMORE AVE		PORTER RANCH	CA	91326-1511
CHOR HUIE	701 N STORY PL		ALHAMBRA	CA	91801-1555
CHRISTIAN CZUZAK	6108 HOLIDAY AVE		ROSAMOND	CA	93560-6519
CHRISTIAN MANGUS	5465 62ND ST W		ROSAMOND	CA	93560-6254
CHRISTINA BAUER	11420 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4218
CHRISTINA CALKINS	9645 BUCKHORN AVE		ROSAMOND	CA	93560-7529
CHRISTINA DAY	25907 CHERRYHILL DR		BORON	CA	93516-1204
CHRISTINA IDLEMAN	601 5TH AVE		SCOTTSBLUFF	NE	69361-3581
CHRISTINA MAGDALENO	2075 BAYWOOD CT	APT 157	LANCASTER	CA	93536-7291
CHRISTINA SCOTT	2263 BUSS CT		ROSAMOND	CA	93560-5939
CHRISTINA SPEED	818 60TH ST W		ROSAMOND	CA	93560-6910
CHRISTINA WEST	9420 RESEDA BLVD BOX 246		NORTHRIDGE	CA	91324-2932
CHRISTINE BURDETTE	13677 W AVENUE A		ROSAMOND	CA	93560-7270
CHRISTINE DUKE	1037 E PROVIDENCIA AVE		BURBANK	CA	91501-1544
CHRISTINE MARGIE	115 90TH ST W		ROSAMOND	CA	93560-7019
CHRISTINE SMITH	10735 LEONA AVE		LEONA VALLEY	CA	93551-7304
CHRISTINE WONG	1109 RUMBOLD ST		GARDENA	CA	90248-3353
CHRISTOPER CATO	1326 100TH ST W		ROSAMOND	CA	93560-7267
CHRISTOPHER	10603 PENROSE ST		SUN VALLEY	CA	91352-2014
CHRISTOPHER ALONSO	123 CONGRESS ST		ORANGE	MA	01364-1640
CHRISTOPHER HILL	31858 CASTAIC RD # 175		CASTAIC	CA	91384-3943
CHRISTOPHER JOHNSTON	PO BOX 1226		CARDIFF BY THE SEA	CA	92007-7226
CHRISTOPHER KILLIAN	42257 6TH ST W STE 305		LANCASTER	CA	93534-7150
CHRISTOPHER KUTELIS	6373 WILLOW AVE		ROSAMOND	CA	93560-6575
CHRISTOPHER LINSTRUTH	1752 E AVENUE J # 347		LANCASTER	CA	93535-4474
CHRISTOPHER MACKEN	PO BOX 875		NORTH EDWARDS	CA	93523-0875
CHRISTOPHER MOWRY	800 70TH ST W		ROSAMOND	CA	93560-7060
CHRISTOPHER NELSON	40144 174TH ST E		PALMDALE	CA	93591-3123
CHRITOPHER BAUSCH	4450 37TH ST WEST		LANCASTER	CA	93536
CHU CHI CHEN	3807 SW CHELMSFORD RD		TOPEKA	KS	66610-1448
CHUNG CHAN K	33329 260TH ST E		LLANO	CA	93544
CHUNG CHAR	1115 JARROW AVE		HACIENDA HTS	CA	91745-2020
CHUNG MONICA Y	48275 224TH ST W		LANCASTER	CA	93536-9104
CHURCH OF JESUS CHRIST OF	50 E NORTH FL 22		SALT LAKE CITY	UT	84150-0001
CILK BYERS	13210 POCONO CT		MORENO VALLEY	CA	92555-2492
CISSELL JOHN M; SANDRA F	CISSELL TRUST	46665 70TH ST E	LANCASTER	CA	93535-7834
CIT GROUP CONSUMER FINANCE INC	1643 76TH ST W		ROSAMOND	CA	93560-7375
CITIBANK TR	800 STATE HIGHWAY 121 BYP		LEWISVILLE	TX	75067-4180
CITIGROUP GLOBAL MARKETS REALTY	3476 STATEVIEW BLVD		FORT MILL	SC	29715-7203
CITIMORTGAGE INC	2866 58TH ST W		ROSAMOND	CA	93560-6502
CITY NATIONAL BANK TR ET AL	1950 AVENUE OF THE STARS STE 200		LOS ANGELES	CA	90067-4606
CLARABELLE MERCADO	20736 COMMUNITY ST		WINNETKA	CA	91306-1502
CLARENCE ALEXANDER	38227 230TH ST E		PALMDALE	CA	93591-4705
CLARENCE HUMPHREYS	36547 ROZALEE DR		PALMDALE	CA	93550-9313
CLARK	3322 CASTERA AVE		GLENDALE	CA	91208-1610
CLARK JULIUS J	18531 E PALMDALE BLVD		PALMDALE	CA	93591-4308
CLAUDE ADKINS	PO BOX 351		BORON	CA	93596-0351
CLAUDE MACRI	1326 DANIELSON RD		SANTA BARBARA	CA	93108-2807
CLAUDE MCFERGUSON	PO BOX 5864		LANCASTER	CA	93539-5864
CLAUDE STEEN	1931 FELICIDAD DR		LAKE HAVASU CITY	AZ	86404-1000
CLAUDIA MORAN	13577 OSBORNE ST		ARLETA	CA	91331-5525
CLAWSON RUSSELL M / CLAWSON TRUST	5329 W AVENUE C14		LANCASTER	CA	93536-9512
CLAYTON FAIRCHILD	24238 JOSHUA AVE		BORON	CA	93516-1323
CLAYTON NICHOLS	PO BOX 257		ROSAMOND	CA	93560-0257
CLAYTON WOODHULL	PO BOX 2873		GRANITE BAY	CA	95746-2873
CLIFTON OWENS	24285 SAGE AVE		BORON	CA	93516-1333
CLINTON HUTH	3500 75TH ST W		ROSAMOND	CA	93560-7179
CLINTON ROSEMOND	4255 W 64TH ST		LOS ANGELES	CA	90043-3519
CLYDE FISHER	2203 60TH ST W		ROSAMOND	CA	93560-6507
COBB CURTIS R	48052 110TH ST W		LANCASTER	CA	93536-9310
COCKERILL CYRIL / COCKERILL JACQUELINE A	18244 W AVENUE E4		LANCASTER	CA	93536-9004
CODY WILLIAMS	24403 JOSHUA AVE		BORON	CA	93516-1326
COFFMAN REVOCABLE TRUST	ATTN: JUDYTH COFFMAN	12882 GASKELL RD	ROSAMOND	CA	93560-7095
COGENT PROPERTIES LLC	7540 CANYON MEADOW CIR APT C		PLEASANTON	CA	94588-4713
COLLATERAL RELIEF SERVICING LL	2727 W ALAMEDA AVE		BURBANK	CA	91505-4404
COLLEN FRANCIS	28542 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553
COLLINS AKINSOLA	7551 BELMAR AVE		RESEDA	CA	91335-2428
COLMENARES JUAN M	2001 ELM ST		ROSAMOND	CA	93560-6028

COLOMA ONELIA A / COLOMA EDWIN H	3623 W AVENUE K10		LANCASTER	CA	93536-4928
COLVIN ELI	PO BOX 29		VALYERMO	CA	93563-0029
CONCEPCION AUTRAND	529 DE LA VINA ST		SANTA BARBARA	CA	93101-3419
CONCETTO VECCHIO	931 NEW YORK DR		ALTADENA	CA	91001-3155
CONNELLY JOHN L	30837 235TH ST E		LLANO	CA	93544-1533
CONNELLY PATRICK R / CONNELLY SUSAN F	48004 190TH ST W		LANCASTER	CA	93536-9025
CONNIE BERTRAM	12993 SANTA PAULA OJAI RD		SANTA PAULA	CA	93060-9624
CONNIE LAEZZA	25749 DINKEY AVE		LANCASTER	CA	93536-9612
CONRADO BRUCE	3456 W DEVON AVE		LINCOLNWOOD	IL	60712-1316
CONSTANCE FARMER	6720 GASKELL RD		ROSAMOND	CA	93560-7132
CONWAY SHERYL J	43034 FAIRLEE DR		LANCASTER	CA	93536-4605
COOK	24138 CHAPARRAL AVE		BORON	CA	93516-1304
COOK	24138 CHAPARRAL AVE		BORON	CA	93516-1304
COOK JEANMARIE	49250 52ND ST W		LANCASTER	CA	93536-9509
COOK LILIA	10724 WILSHIRE BLVD APT 606		LOS ANGELES	CA	90024-4461
COOKE CITY RACEWAY INC	3500 75TH ST W		ROSAMOND	CA	93560-7179
COOKSON	6848 105TH ST W		ROSAMOND	CA	93560-6932
CORA DIXON	PO BOX 902111		PALMDALE	CA	93590-2111
CORAL ZEDICHER	5970 GASKELL RD		ROSAMOND	CA	93560-6912
CORALEE REUTER	7362 W AVENUE G		LANCASTER	CA	93536-8618
COREY JONES	9235 LEONA AVE		LEONA VALLEY	CA	93551-7331
CORINA TOY	35591 RAINLEAF CT		ELIZABETH	CO	80107-7855
CORNELIO DULDULAO	19 W 52ND ST		LONG BEACH	CA	90805-5817
CORP OF THE PRESIDING BISHOP OF	50 E NORTH FL 22		SALT LAKE CITY	UT	84150-0001
CORREA RICARDO / CORREA INGRID L	1300 S FIGUEROA ST	APT 122	LOS ANGELES	CA	90015-2802
CORRELL BUD R / CORRELL KATHLEEN R	28538 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3423
CORUCE PROPERTIES LLC	20538 E AVENUE Q12		PALMDALE	CA	93591-4503
COUNTRYWIDE HOME LOANS INC	1757 TAPO ST		SIMI VALLEY	CA	93063
COURTNEY DETRA D / COURTNEY WALTER	18608 W AVENUE E4		LANCASTER	CA	93536-9049
COWLES DEBRA A / COWLES RICHARD L	3013 E AVENUE H		LANCASTER	CA	93535-1600
COX TIM H / COX SHARON M	40823 COBBLESTONE CT		PALMDALE	CA	93551-1850
CRAIG SMITH	6848 W AVENUE D8		LANCASTER	CA	93536-8819
CRAIG VAN DAM	12715 BOBTAIL LN		ROSAMOND	CA	93560-7059
CRAIG WHEELOCK	9349 E AVENUE T12		LITTLEROCK	CA	93543-3526
CRAIG WILLIAMS	19507 ERMINE ST		CANYON CNTRY	CA	91351-1130
CRAWFORD JEFFREY S / CRAWFORD TARALI I	28600 DEVILS PUNCH BOWL RD		PEARBLOSSOM	CA	93553-3432
CRIGLER TIM / CRIGLER RITA	18649 W AVENUE B8		LANCASTER	CA	93536-9297
CRIS ADVINCULA	2203 COBBLEHILL PL		SAN MATEO	CA	94402-4007
CRITCHLOW ROBERT; BARBARA	CRITCHLOW R; B /TR	48203 60TH ST W	LANCASTER	CA	93536-8818
CROWN RENTS OF BAKERSFIELD INC	PO BOX 6333		MAGNA	UT	84044-6333
CRUZ ANTONIO / CRUZ EMMA	48004 100TH ST E		LANCASTER	CA	93535-7908
CRYSTAL ACOSTA	1197 HUDSPETH ST		SIMI VALLEY	CA	93065-4559
CRYSTAL JOB	24348 JOSHUA AVE		BORON	CA	93516-1356
CUBER JODIE M	34602 165TH ST E		LLANO	CA	93544-1112
CUEVA HUMBERTO / CUEVA CLAUDIA	12462 WEST ST		GARDEN GROVE	CA	92840-3838
CUEVAS ROSA / MONTES RAUL C	6318 W AVENUE A		LANCASTER	CA	93536-9590
CUONG DAO	501 LEONARD AVE		LAS VEGAS	NV	89106-2748
CURTIS COBB	48052 110TH ST W		LANCASTER	CA	93536-9310
CURTIS KINNGOTT	PO BOX 2538		ROSAMOND	CA	93560-2538
CURTIS SMITH	511 W KENDALL ST		CORONA	CA	92882-4328
CURTIS WADLEIGH	12567 SAHARA AVE		ROSAMOND	CA	93560-7394
CUTBIRTH CINITHIA A	17070 FORT TEJON RD		LLANO	CA	93544-1302
CYNTHIA COLUMBIA	1514 CARSON MESA RD		PALMDALE	CA	93550-9725
CYNTHIA COTT	42130 22ND ST W		QUARTZ HILL	CA	93536-3311
CYNTHIA DAVIS	10983 GASKELL RD		ROSAMOND	CA	93560-7015
CYNTHIA IRVING	PO BOX 446		BORON	CA	93596-0446
CYNTHIA NELSON	40144 174TH ST E		PALMDALE	CA	93591-3123
CYNTHIA RODRIGUEZ	28460 AVENUE STANFORD		VALENCIA	CA	91355-4856
CYNTHIA SHELDON	PO BOX 1789		ROSAMOND	CA	93560-1789
CYNTHIA WIRT	PO BOX 253		LLANO	CA	93544-0253
CZARNOCKI JOHN C / CZARNOCKI MARIA J	9116 W IVESBROOK ST		LANCASTER	CA	93536-7709
D JAMES	12335 SIERRA VIEW ST		BORON	CA	93516-1341
DAE JI	8192 REGENCY ST		LA PALMA	CA	90623-1928
DAE LEE	2160 CAMELLIA LN		FULLERTON	CA	92833-4906
DAIROLD POTTS	7531 GASKELL RD		ROSAMOND	CA	93560-7028
DALE DRONET	PO BOX 1595		ROSAMOND	CA	93560-1595
DALE GRAHN	900 UNIVERSITY AVE		BURBANK	CA	91504-3034
DALENE GARRETT	1757 TAPO CANYON RD # 88		SIMI VALLEY	CA	93063-3391
DAN HAKES	24224 JOSHUA AVE		BORON	CA	93516-1323
DAN SMITH	13129 VOLUNTEER AVE		NORWALK	CA	90650-3156
DAN STEFFEY	1210 W 228TH ST		ROSAMOND	CA	93560
DANA DOTSON	38643 LOUISE LN		PALMDALE	CA	93551-5423
DANIEL CASSIDY	PO BOX 324		ROSAMOND	CA	93560-0324
DANIEL CRUZ	14235 FRIAR ST		VAN NUYS	CA	91401-2109
DANIEL FINCH	PO BOX 397		GUTHRIE	OK	73044-0397
DANIEL GEAR	PO BOX 1615		ROSAMOND	CA	93560-1615
DANIEL HOGE	20722 WHITE ST		TEHACHAPI	CA	93561-8713
DANIEL HOLLEN	44315 ELM AVE		LANCASTER	CA	93534-4321
DANIEL JENKINS	24475 JOSHUA AVE		BORON	CA	93516-1326
DANIEL LAIRD	3419 CARLA AVE		MOJAVE	CA	93501-1109
DANIEL LEROY	9 BRUCEMONT CIR		ASHEVILLE	NC	28806-3402
DANIEL MONGIANO	41902 LOMA VIS		LANCASTER	CA	93536-2831
DANIEL MOORE	12469 EL MIRAGE ST		BORON	CA	93516-1354
DANIEL PACHECO	5731 WILLOW AVE		ROSAMOND	CA	93560-6951
DANIEL POTTER	7828 W AVENUE H		LANCASTER	CA	93536-8108
DANIEL RHODEN	PO BOX 810		PEARBLOSSOM	CA	93553-0810
DANIEL ROMO	9035 E AVENUE T4		LITTLEROCK	CA	93543-2716

DANIEL SPOOR	PO BOX 2240	ROSAMOND	CA	93560-2240
DANIEL STEFFENS	5138 60TH ST W	ROSAMOND	CA	93560-6551
DANIEL STERLING	5788 CHARAN RD	ROSAMOND	CA	93560-7116
DANIEL TORRES	21053 E AVENUE R8	PALMDALE	CA	93591-4502
DANIEL WALDEN	PO BOX 1910	ROSAMOND	CA	93560-1910
DANIELA JOHNSON	6754 E LOWE AVE	FRESNO	CA	93727-5823
DANILO BATIMANA	1828 E COMMONWEALTH AVE	FULLERTON	CA	92831-4823
DANILO VENTUROLI	PO BOX 633	PEARBLOSSOM	CA	93553-0633
DANITA HAWKINSMURPHY	150 ALLEGHENY AVE	PITTSBURGH	PA	15202
DANNY CALDWELL	PO BOX 943	PALMDALE	CA	93590
DANNY CLOSSER	PO BOX 14506	IRVINE	CA	92623-4506
DANNY HALCOMB	908 60TH ST W	ROSAMOND	CA	93560-7238
DANNY KIMBLE	24329 SAGE AVE	BORON	CA	93516-1335
DANNY MEEK	24421 TAMARISK AVE	BORON	CA	93516-1351
DANTE BALDOZ	4566 WOLVERINE WAY	ANTIOCH	CA	94531-7677
DARA ENGLISH	24326 SAGE AVE	BORON	CA	93516-1336
DARIO BORROEL	2400 100TH ST W	ROSAMOND	CA	93560-7080
DARLENE CRISMAN	3040 JULIAN AVE	LONG BEACH	CA	90808-4433
DARLENE GJELSVIK	10557 HAMILTON RD	ROSAMOND	CA	93560-6936
DARLENE KAEHLER	6577 HOLIDAY AVE	ROSAMOND	CA	93560-7098
DARLENE KAEHLER	6577 HOLIDAY AVE	ROSAMOND	CA	93560-7098
DARLENE MAGDALENO	5838 CHARAN RD	ROSAMOND	CA	93560-7381
DARLENE SMOOT	5402 COLONY GREEN DR	SAN JOSE	CA	95123-1469
DARRELL COLLINS WILTON	PO BOX 105	ROSAMOND	CA	93560-0105
DARRELL MC KINNEY	24218 JUNIPER AVE	BORON	CA	93516-1329
DARREN SCOTT	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
DARRON EDWARDS	PO BOX 5863	LANCASTER	CA	93539-5863
DARRYL HILL	7320 RICHFIELD ST UNIT 105	PARAMOUNT	CA	90723-3389
DARRYL HOUSER	20749 W DUANE LN	WITTMANN	AZ	85361-5340
DARSOT UMTIAZ	17801 CRENSHAW BLVD APT 4	TORRANCE	CA	90504-4127
DARWIN MC NEIL	11715 TEHACHAPI WILLOW SPRINGS RD	ROSAMOND	CA	93560-6940
DARWIN MOE	PO BOX 87	PEARBLOSSOM	CA	93553-0087
DAUMANTS BELTE	PO BOX 880	ROSAMOND	CA	93560-0880
DAVID ADAMS	5980 SUE AVE	ROSAMOND	CA	93560-6960
DAVID ALLEN	45056 LOGUE CT	LANCASTER	CA	93535-2678
DAVID BONZELL	PO BOX 1654	ROSAMOND	CA	93560-1654
DAVID BOYLES	PO BOX 1752	ROSAMOND	CA	93560-1752
DAVID BYERLY	PO BOX 1687	ROSAMOND	CA	93560-1687
DAVID BYRNE	42156 10TH ST W STE R	LANCASTER	CA	93534-7065
DAVID CARRILLO	20541 E AVENUE Q4	PALMDALE	CA	93591-4505
DAVID CEDILLOS	13160 E AVENUE J	LANCASTER	CA	93535-8709
DAVID CHILDS	28040 BROOKSIDE CT	CASTAIC	CA	91384-2592
DAVID DANIELS	2111 W AVENUE K 15	LANCASTER	CA	93536
DAVID DIXON	5595 CHARAN RD	ROSAMOND	CA	93560-6952
DAVID DOMINGUEZ	47904 30TH ST E	LANCASTER	CA	93535-7613
DAVID DOUTHIT	24713 ISLAND AVE	CARSON	CA	90745-6545
DAVID DUKE	1037 E PROVIDENCIA AVE	BURBANK	CA	91501-1544
DAVID EUZARRAGA	555 N EL CAMINO REAL	SAN CLEMENTE	CA	92672-6740
DAVID FELIX	7884 ROLAND AVE	ROSAMOND	CA	93560-7023
DAVID FREGOSO	10931 HAMILTON RD	WILLOW SPRINGS	CA	93560-7199
DAVID FRIELING	11354 W 115TH ST	ROSAMOND	CA	93560
DAVID FUTCH	PO BOX 558	LAKE HUGHES	CA	93532-0558
DAVID GASS	37304 DEL MAR ST	PALMDALE	CA	93552-4666
DAVID GINGRICH	2652 DAVENPORT ST	ROSAMOND	CA	93560-6922
DAVID HALL	PO BOX 304	LAKE HUGHES	CA	93532-0304
DAVID HARSHBARGER	3524 E AVENUE R SPC 209	PALMDALE	CA	93550-5089
DAVID HAWLEY	4360 E MAIN ST UNIT 154	VENTURA	CA	93003-8279
DAVID HOPKINS	21215 W AVENUE C	LANCASTER	CA	93536-9351
DAVID IRVIN	6817 W AVENUE A2	LANCASTER	CA	93536-9530
DAVID JONES	PO BOX 900355	PALMDALE	CA	93590-0355
DAVID KEMBLOWSKI	7007 DARBY AVE	RESEDA	CA	91335-4402
DAVID KIEFER	5332 61ST ST W	ROSAMOND	CA	93560-6533
DAVID LATTA	37413 HARROW CT	PALMDALE	CA	93550-7743
DAVID LEWIS	2207 62ND ST W	ROSAMOND	CA	93560-6571
DAVID LEWIS	2207 62ND ST W	ROSAMOND	CA	93560-6571
DAVID LOGAN	PO BOX 60	ROSAMOND	CA	93560-0060
DAVID MARTINEZ	6055 HOLIDAY AVE STE B	ROSAMOND	CA	93560-7129
DAVID MC KEE	6170 STARDUST AVE	ROSAMOND	CA	93560-6543
DAVID MCCRAE	PO BOX 2423	LANCASTER	CA	93539-2423
DAVID MILBURN	28460 AVENUE STANFORD	VALENCIA	CA	91355-4856
DAVID MORAN	8812 TELFAIR AVE	SUN VALLEY	CA	91352-1943
DAVID MULLIN	PO BOX 900205	PALMDALE	CA	93590-0205
DAVID NELSON	1213 1ST ST # 182	CORONADO	CA	92118-1414
DAVID PARK	11809 DEL AMO BLVD	CERRITOS	CA	90703-7605
DAVID PARK	3807 SIERRA HWY # 6-4413	ACTON	CA	93510-1255
DAVID PEEK	PO BOX 1552	ROSAMOND	CA	93560-1552
DAVID SCOTT	1715 TURNBULL CANYON RD	HACIENDA HEIGHTS	CA	91745-3206
DAVID SERMON	1340 97TH ST W	ROSAMOND	CA	93560
DAVID SICKLER	PO BOX 901852	PALMDALE	CA	93590-1852
DAVID SKIPWORTH	PO BOX 552	BORON	CA	93596-0552
DAVID SMITH	6515 LINCOLN AVE	DEXTER	NM	88230-9725
DAVID SMITH	42325 HIGHLAND CT	LANCASTER	CA	93536-7392
DAVID SSERUNKUMA	525 S ARDMORE AVE APT 246	LOS ANGELES	CA	90020-3320
DAVID STEGMAN	1275 W BOSQUE DR	SAHUARITA	AZ	85629-8592
DAVID WANG	33301 AGUA DULCE CANYON RD	AGUA DULCE	CA	91390-4548
DAVID WIGGS	16915 FOOTHILL AVE	EDWARDS	CA	93523-3532
DAVID WONG	2506 SPRECKELS LN	REDONDO BEACH	CA	90278-5337

DAVIDSON ERNEST / DAVIDSON AUDREY	411 MOONLIGHT TRL		LEWISBURG	TN	37091-3651
DAY THERON H / DAY DEBRA J	47421 60TH ST E		LANCASTER	CA	93535-7825
DE ANNA LOVE	12401 DEL ORO ST		BORON	CA	93516-1311
DE LA TOVA SUMMER D	46157 167TH ST W		LANCASTER	CA	93536-9002
DEAN ARMBRUSTER	PO BOX 884		ROSAMOND	CA	93560-0884
DEAN WILLIAMS	2504 SWAINSONS HAWK ST		STOCKTON	CA	95209-4277
DEANA MULLINS	115 90TH ST W		ROSAMOND	CA	93560-7019
DEANNA SIMONIS	5952 CHARAN RD		ROSAMOND	CA	93560-6967
DEARDRA ABALOS	26672 IRON CANYON RD		SANTA CLARITA	CA	91387-4811
DEBBIE BADANO	1210 E BROADWAY		GLENDALE	CA	91205-1408
DEBBIE BRANDON	24249 CHAPARRAL AVE		BORON	CA	93516-1305
DEBBIE DEVOE	PO BOX 691		LAKE HUGHES	CA	93532
DEBBIE LANDSGAARD	PO BOX 167		ROSAMOND	CA	93560-0167
DEBBIE VANDAM	7304 E AVENUE F		LANCASTER	CA	93535-7823
DEBEAR PETER B / DEBEAR CAROL A	20006 W AVENUE F		LANCASTER	CA	93536-9062
DEBORA EPHRIAM	12489 SIERRA VIEW ST		BORON	CA	93516-1344
DEBORAH ADKINS	4995 ELDER AVE		ROSAMOND	CA	93560-6978
DEBORAH ALLUIS	5265 61ST ST W		ROSAMOND	CA	93560-6479
DEBORAH HAMES	40892 COBBLESTONE CT		PALMDALE	CA	93551
DEBORAH HAMIDI	7210 JORDAN AVE STE B15		CANOGA PARK	CA	91303-1357
DEBORAH MINTER	PO BOX 4141		BURBANK	CA	91503-4141
DEBORAH ROULEAU	11137 W ROSAMOND BLVD		ROSAMOND	CA	93560-7507
DEBORAH SALTER	2240 W AVENUE N		PALMDALE	CA	93551-2338
DEBRA BEAN	PO BOX 1165		SANTAQUIN	UT	84655-1165
DEBRA GALLEGOS	27096 JEROME ST		BORON	CA	93516-1632
DEBRA HESSELTON	4576 SWEETSER RD		ROSAMOND	CA	93560-6450
DEBRA HULSEY	5419 64TH ST W		ROSAMOND	CA	93560-6460
DEBRA MC NEIL	11715 TEHACHAPI WILLOW SPRINGS RD		ROSAMOND	CA	93560-6940
DEBRA ROMINE	38713 TIERRA SUBIDA AVE # 200-163		PALMDALE	CA	93551-4562
DEBRA SMITH	51310 280TH ST W		LANCASTER	CA	93536-9238
DEBRA TAYLORSPEARS	3040 RIVERSIDE TER		CHINO	CA	91710-2964
DEL ROSARIO MA	2719 57TH ST W		ROSAMOND	CA	93560-6923
DELA CRUZ JOSEPH C	44625 31ST ST W		LANCASTER	CA	93536-8367
DELILAH JENKINS	24475 JOSHUA AVE		BORON	CA	93516-1326
DELMAR FERGUSON	3735 W AVENUE K15		LANCASTER	CA	93536-4947
DELMAR FERGUSON	7543 WILLOW AVE		ROSAMOND	CA	93560-7029
DELMAR VANDAM	9753 E AVENUE F8		LANCASTER	CA	93535-7913
DELMY LOPEZ	1121 L ST FL 7		SACRAMENTO	CA	95814-3970
DELORES JULIAN	5554 W ROSAMOND BLVD		ROSAMOND	CA	93560-6559
DELORIS GUMS	326 RUBERTA AVE	# A	GLENDALE	CA	91201-2749
DELORIS LAMBERT	PO BOX 923		ROSAMOND	CA	93560-0923
DELTON HICKMAN	PO BOX 900518		PALMDALE	CA	93590-0518
DELTON HOWARD	12490 SIERRA VIEW ST		BORON	CA	93516-1352
DELVIN RIVAS	5770 GASKELL RD		ROSAMOND	CA	93560-7151
DELYNN BECKETT	43357 43RD ST W		QUARTZ HILL	CA	93536-5522
DEMETRIO GABA	4810 ARIANO DR		CYPRESS	CA	90630-3525
DENISE OTTE	12446 SIERRA VIEW ST		BORON	CA	93516-1343
DENISE PETERSEN	8225 ILLAHEE RD NE		BREMERTON	WA	98311-9373
DENISHA BARNES	16825 PASSAGE AVE UNIT 312		PARAMOUNT	CA	90723-5675
DENNING ANTHONY / RAIRDEN KATHRYN	12735 MURPHYS LN		PEARBLOSSOM	CA	93553-3445
DENNIS	1710 W AVENUE L4		LANCASTER	CA	93534-6951
DENNIS CARTER	24204 JUNIPER AVE		BORON	CA	93516-1329
DENNIS CORBY	141 127TH ST W		ROSAMOND	CA	93560-8201
DENNIS DINNGER	800 70TH ST W		ROSAMOND	CA	93560-7060
DENNIS GAGNON	PO BOX 2308		ROSAMOND	CA	93560-2308
DENNIS GROVEN	43036 42ND ST W		LANCASTER	CA	93536-5007
DENNIS HOWARD	24144 JOSHUA AVE		BORON	CA	93516-1321
DENNIS HULSEY	5419 64TH ST W		ROSAMOND	CA	93560-6460
DENNIS LANK	PO BOX 136		BORON	CA	93596-0136
DENNIS MOREHOUSE	12328 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3479
DENNIS PENNA	PO BOX 844		LEBEC	CA	93243-0844
DENNIS PETERSHERNANDEZ	3815 SW TEMPLE		SALT LAKE CITY	UT	84115
DENNIS TARANDY	11024 WOODSTOCK DR		ORLAND PARK	IL	60467-7608
DENNIS VOGT	11941 GASKELL RD		ROSAMOND	CA	93560-7055
DENNY VERNON E / VERDEN TRUST	46412 70TH ST E		LANCASTER	CA	93535-7833
DEREK ROBINSON	3311 W 3RD ST APT 1-355		LOS ANGELES	CA	90020-1616
DERIC ENGLISH	24261 SAGE AVE		BORON	CA	93516-1333
DERRICK OLIN ; BEATRICE / DERRICK FAMILY	8847 E AVENUE G12		LANCASTER	CA	93535-7905
DERWIN AIKENS	3658 W 59TH PL		LOS ANGELES	CA	90043-2904
DESDEMONA LLC	PO BOX 17524		ENCINO	CA	91416-7524
DESERT CHRISTIAN MINISTRIES INC	44662 15TH ST W		LANCASTER	CA	93534-2806
DESERT CHRISTIAN MINISTRIES INC	44662 15TH ST W		LANCASTER	CA	93534-2806
DESERT LAKE LTD PTP	16996 SPAATZ CIR		RIVERSIDE	CA	92518-2862
DETAR LOIS A / DETAR DEAN E	17316 FORT TEJON RD		LLANO	CA	93544-1300
DEUS MICHAEL A	23295 W AVENUE D8		LANCASTER	CA	93536-9703
DEUTCHE BANK TRUST CO	1001 SEMMES AVE		RICHMOND	VA	23224-2245
DEUTSCHE ALT-B TRUST 2006-AB4	PO BOX 2103		BUFFALO	NY	14240-2103
DEUTSCHE BK TRUST CO AMERICAS TR	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
DEWGAW TR	936 W AVENUE J8		LANCASTER	CA	93534-4945
DEWILLO SEMERAU	1209 MELBORN WAY		MINDEN	NV	89423-8807
DIANA BARILE	2260 N GOWER ST		HOLLYWOOD	CA	90068-2953
DIANA FRIELING	11354 W 115TH ST		ROSAMOND	CA	93560
DIANA LOPEZ	4939 N SAINT MALO AVE		COVINA	CA	91722-1030
DIANA MARTINEZ	4939 N SAINT MALO AVE		COVINA	CA	91722-1030
DIANA NELSON	PO BOX 418		BORON	CA	93596-0418
DIANA PARK	11809 DEL AMO BLVD		CERRITOS	CA	90703-7605
DIANA ROBLEDO	PO BOX 1881		ROSAMOND	CA	93560-1881

DIANA TARANDY	11024 WOODSTOCK DR	ORLAND PARK	IL	60467-7608
DIANE DOWELL	19456 VANOWEN ST	RESEDA	CA	91335-4919
DIANE FISKE	PO BOX 1662	ROSAMOND	CA	93560-1662
DIANE HICKS	6107 SWEETSER RD	ROSAMOND	CA	93560-6573
DIANE PETERSON	PO BOX 1704	FRAZIER PARK	CA	93225-1704
DIANE SCOTT	1715 TURNBULL CANYON RD	HACIENDA HEIGHTS	CA	91745-3206
DIANE TIBBETTS	PO BOX 404	LAKE HUGHES	CA	93532-0404
DIANE WANG	33301 AGUA DULCE CANYON RD	AGUA DULCE	CA	91390-4548
DIANNE BASHOR	1330 INSPIRATION DR	LA JOLLA	CA	92037-6810
DIANNE ESHBACH	PO BOX 749	TEHACHAPI	CA	93581-0749
DIANNE MACLEAN	PO BOX 145	LITTLEROCK	CA	93543-0145
DIANNE WASHINGTON	3701 50TH ST W	ROSAMOND	CA	93560-6725
DICKERSON TR	1616 N ALADDIN RD	LIBERTY LAKE	WA	99016-9405
DICKMAN ELLENOR T	2267 PENGUIN DR	SPARKS	NV	89441-5805
DIEN NGUYEN	2956 W ROWLAND CIR	ANAHEIM	CA	92804-2059
DILLARD LOVE	12401 DEL ORO ST	BORON	CA	93516-1311
DILLON BEVAN	2146 W AVENUE K 14	LANCASTER	CA	93536
DINH HAO	14151 SHIRLEY ST	WESTMINSTER	CA	92683-4603
DIRECT MONEY SOURCE INC	10880 WILSHIRE BLVD STE 530	LOS ANGELES	CA	90024-4114
DMARCO SMITH	PO BOX 931028	LOS ANGELES	CA	90093-1028
DODDS HOWARD	6248 E AVENUE J	LANCASTER	CA	93535-8317
DOLLIE KOSTOPOULOS	24422 TAMARISK AVE	BORON	CA	93516-1358
DOLORE STEWARD	26858 OAK BRANCH CIR	NEWHALL	CA	91321-1429
DOLORES BRAGG	4890 90TH ST W	ROSAMOND	CA	93560-6958
DOLORES RCO	5906 JASPER ST	RANCHO CUCAMONGA	CA	91701-1929
DOMENIC SCAVO	PO BOX 234	PEARBLOSSOM	CA	93553-0234
DOMINICK ARCURI	15981 GASKELL RD	ROSAMOND	CA	93560-7164
DON MUMFORD	PO BOX 1166	ROSAMOND	CA	93560-1166
DONAGHE DIANA L	45607 50TH ST E	LANCASTER	CA	93535-7700
DONALD ANDERSON	386 EL ENCANTO DR	PASADENA	CA	91107-5308
DONALD BELLANCA	5841 CATHY AVE	ROSAMOND	CA	93560-7233
DONALD BLANCHARD	204 POINDEXTER DR	PASS CHRISTIAN	MS	39571-2418
DONALD BUSTILLOS	PO BOX 327	ROSAMOND	CA	93560-0327
DONALD COMPTON	233 E M ST	WILMINGTON	CA	90744-2631
DONALD CORNELIUS	18655 WEST AVENUE E	LANCASTER	CA	93536
DONALD CRISMAN	3040 JULIAN AVE	LONG BEACH	CA	90808-4433
DONALD DYAS	PO BOX 572	ROSAMOND	CA	93560-0572
DONALD HOLLANDER	PO BOX 58	VALYERMO	CA	93563-0058
DONALD JONES	PO BOX 943	ROSAMOND	CA	93560-0943
DONALD KIM	7320 COVENTRY CIR	BUENA PARK	CA	90621-3932
DONALD MASTERS	PO BOX 3251	LANCASTER	CA	93586-0251
DONALD MAURAN	1270 NORTHLAND DR	MENDOTA HEIGHTS	MN	55120-1156
DONALD NORTON	2075 65TH ST W	ROSAMOND	CA	93560-6535
DONALD OLSEN	PO BOX 1526	ROSAMOND	CA	93560-1526
DONALD SHIPMAN	14097 SUNSET DR	WHITTIER	CA	90602-2657
DONALD SMALL	6014 COLBATH AVE	VAN NUYS	CA	91405
DONALD STOVER	24224 TAMARISK AVE	BORON	CA	93516-1348
DONALD STUKAS	5585 TOPAZ ST	LAS VEGAS	NV	89120-3316
DONALD TIBBETTS	PO BOX 404	LAKE HUGHES	CA	93532-0404
DONALD ZEDICHER	5970 GASKELL RD	ROSAMOND	CA	93560-6912
DONALD ZUBIK	36553 VISTA DEL LAGO ST	PALMDALE	CA	93551-7969
DONAN MCCLUNG	41123 34TH ST W	PALMDALE	CA	93551-1268
DONATO TORREZ	9534 W ROSAMOND BLVD	ROSAMOND	CA	93560-7505
DONG KEUN HUA	37128 THE GRVS	PALMDALE	CA	93551-6232
DONG SHIN	6742 KEOKUK AVE	WINNETKA	CA	91306
DONNA DE LANO	PO BOX 1211	ROSAMOND	CA	93560-1211
DONNA DELANO	PO BOX 1211	ROSAMOND	CA	93560-1211
DONNA FORT	24330 TAMARISK AVE	BORON	CA	93516-1350
DONNA GEIGER	7963 ROLAND AVE	ROSAMOND	CA	93560-7057
DONNA GEIGER	7963 ROLAND AVE	ROSAMOND	CA	93560-7057
DONNA KNOWLTON	PO BOX 492	BORON	CA	93596-0492
DONNA WOOTEN	18231 US HIGHWAY 18 STE 1	APPLE VALLEY	CA	92307-2213
DONNYE HAMOR	PO BOX 931	HELENDALE	CA	92342-0931
DONOHOO JEFFREY S / DONOHOO SHERRI N	6201 E AVENUE G8	LANCASTER	CA	93535-7832
DONOHUE JACQUELYN	31201 96TH ST E	LITTLEROCK	CA	93543-3626
DOREENE HUNT	3435 WHISPER SANDS AVE	ROSAMOND	CA	93560-7807
DORIET MILLER	9012 KESTER AVE	PANORAMA CITY	CA	91402-1505
DORIS BARNARD	24164 JUNIPER AVE	BORON	CA	93516-1328
DORIS EWALT	1000 E AVENUE S # 102	PALMDALE	CA	93550
DORIS LEE	2743 28TH ST W	ROSAMOND	CA	93560-6436
DORIS LOGAN	5757 HOLIDAY AVE	ROSAMOND	CA	93560-6563
DORIS SNEED	29757 CROMWELL AVE	CASTAIC	CA	91384-4611
DORIS STEUSSY	12335 DEL ORO ST	BORON	CA	93516-1309
DORIS WILLIAMS	10731 4 WINDS RD # 4	LITTLEROCK	CA	93543-3643
DORLEENE MALLOCH	5891 CASSON DR	YORBA LINDA	CA	92886-9020
DOROTHA HOWARD	12200 EL MIRAGE ST	BORON	CA	93516-1315
DOROTHY CARTER	2315 W 78TH PL	INGLEWOOD	CA	90305-1125
DOROTHY GERWAT	PO BOX 2330	ROSAMOND	CA	93560-2330
DOROTHY NOLAN	PO BOX 668	LANCASTER	CA	93584-0668
DOROTHY RESSLER	RR 1 BOX 196X	OKEMAH	OK	74859-9746
DOROTHY SLOCUM	PO BOX 1535	LANCASTER	CA	93539-1535
DOROTHY THOMAS	24264 TAMARISK AVE	BORON	CA	93516-1348
DOROTHY VARTANIAN	PO BOX 2600	ROSAMOND	CA	93560-2600
DOSS HERSHEL D / DOSS BARBARA A	18650 E PALMDALE BLVD	PALMDALE	CA	93591-4307
DOUBLESIN JOSEPH C / DOUBLESIN AGNES M	48835 120TH ST E	LANCASTER	CA	93535-8010
DOUCETTE MILTON J JR / DOUCETTE LISA M	29860 LANCASTER RD	LANCASTER	CA	93536-9029
DOUGLAS BEARDEN	24217 SAGE AVE	BORON	CA	93516-1333

DOUGLAS SARGENT	832 DELL RD	PACIFICA	CA	94044-4139
DOUGLAS SCOTT	8524 BLUFFDALE DR	SUN VALLEY	CA	91352-3527
DOUGLAS SHERWOOD	PO BOX 8486	LANCASTER	CA	93539-8486
DOUGLAS TENNESON	21051 CEDARFALLS DR	SAUGUS	CA	91350-1920
DOUGLAS YORK	PO BOX 260	PEARBLOSSOM	CA	93553-0260
DOYLE GABRIEL A	45405 55TH ST W	LANCASTER	CA	93536-8313
DOYLE RAPHAEL A	5809 E AVENUE E	LANCASTER	CA	93535-7846
DRAKE GERALDINE	48464 90TH ST E	LANCASTER	CA	93535-7909
DRASHER RAYMOND A / DRASHER JANET M	28849 LONGVIEW RD	PEARBLOSSOM	CA	93553-3403
DRI HOLDINGS LLC	14677 VIA BETTONA # 110-844	SAN DIEGO	CA	92127-4809
DUAIN NELSON	24437 TAMARISK AVE	BORON	CA	93516-1351
DUANE GARRINGER	PO BOX 1242	PARADISE	CA	95967-1242
DUANE RUMSEY	1234 WILSHIRE BLVD APT 229	LOS ANGELES	CA	90017-1975
DUENAS INES R	48354 100TH ST E	LANCASTER	CA	93535-7917
DULDULAO BRIGIDO / DULDULAO BELLY J	3307 E AVENUE H	LANCASTER	CA	93535-1619
DUNN JOSEPH ; LEE / DUNN FAMILY	9733 E AVENUE G10	LANCASTER	CA	93535-8425
DUNN LLOYD G / DUNN ALICE J	9743 E AVENUE G10	LANCASTER	CA	93535-8425
DUNN LOYD J / DUNN CATHRYN	46303 100TH ST E	LANCASTER	CA	93535-8419
DUONG DE AU	25 MOSELLE DR	KENNER	LA	70065-1123
DUONG LE	36525 HAROLD THIRD ST	PALMDALE	CA	93550-9304
DUPLEASIS CALVIN / DUPLEASIS DESTINY	48856 265TH ST W	LANCASTER	CA	93536-8904
DUSTIN SCHILLING	1235 MIRANDA CT	TEHACHAPI	CA	93561-2364
DWAINE BROOKS	4837 WATT AVE	NORTH HIGHLANDS	CA	95660-5108
EAGLE POINT EQUITIES LLC	24961 THE OLD RD STE 104	STEVENSON RANCH	CA	91381-1717
EARL HARDY	PO BOX 1567	ROSAMOND	CA	93560-1567
EARL ROSE	24393 JOSHUA AVE	BORON	CA	93516-1324
EARL WHITESIDE	45408 160TH ST W	LANCASTER	CA	93536-9038
EARLE BISHOP	10837 HAMILTON RD	ROSAMOND	CA	93560-6938
EAVES JOHN M	41517 TERRAZZO DR	PALMDALE	CA	93551-1934
EDDIE GARCIA	5310 S WILTON PL	LOS ANGELES	CA	90062-2117
EDDIE HARRIS	PO BOX 802352	SANTA CLARITA	CA	91380-2352
EDDY CASTELLANOS	PO BOX 940	WELDON	CA	93283-0940
EDELMIRA VALENCIA	41129 18TH ST W	PALMDALE	CA	93551-2232
EDGAR CALDERA	14437 HARVEST MOON DR	SYLMAR	CA	91342-5151
EDGAR JUAREZ	3460 TORRANCE BLVD STE 300	TORRANCE	CA	90503-5811
EDGAR MONROY	PO BOX 5	ROSAMOND	CA	93560-0005
EDGAR OCEGUEDA	293 MOUNTAIN VIEW ST	ALTADENA	CA	91001-5015
EDGAR RIOS	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
EDGAR RITTER	PO BOX 1152	LANCASTER	CA	93584-1152
EDILMA SERRANO	3102 E AVENUE K4	LANCASTER	CA	93535-4933
EDITH HOYT	18988 W AVENUE E	LANCASTER	CA	93536-9042
EDITH MEJIA	3904 W 171ST ST	TORRANCE	CA	90504-1121
EDITHA TAN	6430 N HARLEM AVE	CHICAGO	IL	60631-1422
EDMONDSON ROBERT A / EDMONDSON JANETTE M	1356 E AVENUE E	LANCASTER	CA	93535-6505
EDMUND W. SWAYZE	3807 SIERRA HWY STE 64614	ACTON	CA	93510-1255
EDNA BLUA	38220 170TH ST E	PALMDALE	CA	93591-3606
EDNA DAVIS	317 10TH ST	MANHATTAN BCH	CA	90266-5407
EDUARDO SANTOS	241 LOMBARD ST	THOUSAND OAKS	CA	91360-5807
EDWARD BURNETT	PO BOX 877	ROSAMOND	CA	93560-0877
EDWARD CALVERT	8844 ARDENDALE AVE	SAN GABRIEL	CA	91775-1904
EDWARD COLLINS	PO BOX 340	ROSAMOND	CA	93560-0340
EDWARD DOUTHIT	PO BOX 1882	ROSAMOND	CA	93560-1882
EDWARD HANLEY	PO BOX 446	RIO LINDA	CA	95673-0446
EDWARD HOUTZ	41770 12TH ST W STE D	PALMDALE	CA	93551-1424
EDWARD KIM	22128 ALTAIR LN	SANTA CLARITA	CA	91390-5754
EDWARD LUCIO	PO BOX 1437	ROSAMOND	CA	93560-1437
EDWARD MARSHALL	23060 W AVENUE C	LANCASTER	CA	93536-9278
EDWARD MULDER	11878 JUNIPER HILLS RD	LITTLEROCK	CA	93543-4207
EDWARD NICHOLS	16996 SPAATZ CIR	RIVERSIDE	CA	92518-2862
EDWARD ROUSH	2519 W AVENUE O 12	PALMDALE	CA	93551
EDWARD ROWDEN	1244 E AVENUE E	LANCASTER	CA	93535-6504
EDWARD STEGMAN	4636 E AVENUE H	LANCASTER	CA	93535-7718
EDWARD WILLIAMS	10731 4 WINDS RD # 4	LITTLEROCK	CA	93543-3643
EDWARDO AREVALO	7294 BACKUS RD	MOJAVE	CA	93501-7161
EDWIN FISKE	PO BOX 1662	ROSAMOND	CA	93560-1662
EDWIN ROGERS	PO BOX 2320	ROSAMOND	CA	93560-2320
EFRAIN PINEDA	2129 60TH ST W	ROSAMOND	CA	93560-6560
EFREN SOLORZANO	42848 ALEP ST	LANCASTER	CA	93536-4857
EG HIGH DESERT PROP LLC	12979 ARROYO ST	SAN FERNANDO	CA	91340-1548
EGBERT VACTOR	4957 VISTA DE ORO AVE	LOS ANGELES	CA	90043-1653
EHO CHOI	716 S HARVARD BLVD APT 128	LOS ANGELES	CA	90005-2526
EILEEN ROE	PO BOX 902915	PALMDALE	CA	93590-2915
EILEEN WEBB	9937 W AVENUE A	ROSAMOND	CA	93560-7371
EKIMOTO WAYNE M / EKIMOTO NANCY J	44308 MUNZ RANCH RD	LAKE HUGHES	CA	93532-1204
EL DORA IRVING	1521 W AVENUE L UNIT 3	LANCASTER	CA	93534-6356
ELAINE MORALES	PO BOX 1382	ROSAMOND	CA	93560-1382
ELAINE PARK	3807 SIERRA HWY # 6-4413	ACTON	CA	93510-1255
ELDORA BRANES	27011 BARNES RANCH RD	LANCASTER	CA	93536-9713
ELEAZER GUZMAN	10700 E AVENUE E	LANCASTER	CA	93535-8006
ELENA JONES	2741 W AVENUE F	LANCASTER	CA	93536-9565
ELENA KAMMER	PO BOX 4268	LANCASTER	CA	93539-4268
ELENITA COLIS	4518 BELLFLOWER BLVD	LAKEWOOD	CA	90713-2501
ELEONORE KERTZMAN	767 100TH ST W	ROSAMOND	CA	93560-7016
ELI COLVIN	PO BOX 29	VALYERMO	CA	93563-0029
ELIAZAR CASTANON	2830 60TH ST W	ROSAMOND	CA	93560-6991
ELISE MAURAN	1270 NORTHLAND DR	MENDOTA HEIGHTS	MN	55120-1156
ELIU BOTELLO	6501 IRVINE CENTER DR	IRVINE	CA	92618-2118

ELIZABETH CLARK	PO BOX 443		PEARBLOSSOM	CA	93553-0443
ELIZABETH DE LANO	PO BOX 1674		ROSAMOND	CA	93560-1674
ELIZABETH HORMOZI	6323 MESSINA CT		PALMDALE	CA	93552-4737
ELIZABETH JONES	PO BOX 2498		ROSAMOND	CA	93560-2498
ELIZABETH JONES	PO BOX 2498		ROSAMOND	CA	93560-2498
ELIZABETH KENNEDY	41654 FIRENZE ST		LANCASTER	CA	93536-2953
ELIZABETH KIMBERLIN	1100 W JACKSON RD		CARROLLTON	TX	75006-1316
ELIZABETH STEAD	6171 GOBI ST		ROSAMOND	CA	93560
ELIZABETH WOODBAISIE	7125 LENNOX AVE APT 124		VAN NUYS	CA	91405-3134
ELLA GARCIA	PO BOX 924		ROSAMOND	CA	93560-0924
ELLEN ILES	PO BOX 1424		ROSAMOND	CA	93560-1424
ELLIS CHARLENE / ELLIS FRANK	5506 W AVENUE H8		LANCASTER	CA	93536-8315
ELMA MONTERROSO	5764 HIDDEN TRAIL RD		ROSAMOND	CA	93560-6980
ELMER HILARIO	2617 EVELYN AVE		WEST COVINA	CA	91792-2031
ELMER PRICE	24150 JUNIPER AVE		BORON	CA	93516-1328
ELMER VAN HORM	24122 SAGE AVE		BORON	CA	93516-1332
ELOISA IBARRA	5954 MARGARITHA LN		ROSAMOND	CA	93560-6916
ELSA FUENTES	999 NW GRAND BLVD STE 100		OKLAHOMA CITY	OK	73118-6077
ELSE DRENGLER	12060 W AVENUE K		LANCASTER	CA	93536-9009
ELSIE COLLINS	PO BOX 340		ROSAMOND	CA	93560-0340
ELSIE KUI LIAM TR	1236 E MARIPOSA AVE		EL SEGUNDO	CA	90245-3222
ELSIE RILEY	24143 CHAPARRAL AVE		BORON	CA	93516-1303
ELVIA SARAVIA	14902 GERKIN AVE		HAWTHORNE	CA	90250-8313
ELVIRA ARANDIA	3815 SW TEMPLE		SALT LAKE CITY	UT	84115
EMC MORTGAGE CORPORATION	909 HIDDEN RDG STE 200		IRVING	TX	75038-3826
EMIL SAXBERG	1566 SIXTH AVE		BELMONT	CA	94002-3805
EMIL SULEK	455 W AVENUE G		LANCASTER	CA	93534-7607
EMILIANO ALBERDI	1633 ULLOA ST		SAN FRANCISCO	CA	94116-2542
EMILIANO NAVA	1425 S GREENWOOD AVE		MONTEBELLO	CA	90640-6303
EMILIO GONZALEZ	3238 W AVENUE N		PALMDALE	CA	93551-1273
EMILY SIFFERMAN	5308 W AVENUE L6		QUARTZ HILL	CA	93536-4444
EMMA ESCAMILLA	3569 S B ST		OXNARD	CA	93033-6128
EMMA GARCIA	PO BOX 4184		EL MONTE	CA	91734-4184
EMMANUEL ROSAS	1171 N KENMORE AVE APT 11		LOS ANGELES	CA	90029-1574
EMMETT WATTS	11112 CHERRY CROFT DR		YUCAIPA	CA	92399-9654
EMPFIELD DANIEL J	17116 BOBS GAP RD		VALYERMO	CA	93563
ENAYAT ZAKHOR	10750 WILSHIRE BLVD APT 1502		LOS ANGELES	CA	90024-4477
ENCINO PROPERTIES COMPANY INC	3476 STATEVIEW BLVD		FORT MILL	SC	29715-7203
ENOS	PO BOX 588		LAKE HUGHES	CA	93532-0588
EO MILBURN	28460 AVENUE STANFORD		VALENCIA	CA	91355-4856
EQUANT INC	PO BOX 6333		MAGNA	UT	84044-6333
EQUITY TRUST COMPANY CSTND ET AL	1134 ASH ST		BRAWLEY	CA	92227-3489
ERBY BEARDEN	24263 JOSHUA AVE		BORON	CA	93516-1322
ERIC CARTER	2333 E MEADOW LARK WAY		SAN TAN VLY	AZ	85140-5618
ERIC DEWAR	12249 SIERRA VIEW ST		BORON	CA	93516-1339
ERIC FINES	43325 VINEYARD DR		LANCASTER	CA	93535
ERIC HAMINI	PO BOX 2698		LANCASTER	CA	93539-2698
ERIC JACOBS	2134 MAIN ST STE 185		HUNTINGTON BEACH	CA	92648-6448
ERIC LANDSGAARD	PO BOX 167		ROSAMOND	CA	93560-0167
ERIC SEEKINS	7210 W AVENUE A		LANCASTER	CA	93536-9543
ERIK PETERSEN	PO BOX 1074		ROSAMOND	CA	93560-1074
ERIK RAPOS	5036 W AVENUE L8	APT 21	LANCASTER	CA	93536-3608
ERIN COLLINS	42305 DANIEL DR		LANCASTER	CA	93536-1231
ERIN GONZALES	6843 ELDER AVE		ROSAMOND	CA	93560-7282
ERLINDA BERNAL	127 E 12TH ST		HUNTINGTON STATION	NY	11746-2523
ERLINDA KOO	680 CADIZ ST		MONTEREY PARK	CA	91754-2635
ERLYN NAGUIAT	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
ERMIN BUCKNOR	3770 VIRGINIA RD		LOS ANGELES	CA	90016-5857
ERNEST BRYANT	4906 INDIANOLA WAY		LA CANADA FLT	CA	91011-2650
ERNEST CRAIN	PO BOX 415		BORON	CA	93596-0415
ERNEST HAMOR	PO BOX 931		HELENDALE	CA	92342-0931
ERNEST MOCK	36881 HINKLEY RD		HINKLEY	CA	92347-9670
ERNEST TERRILL	24406 SAGE AVE		BORON	CA	93516-1338
ESCALERA PAUL	3601 W AVE #K-10		LANCASTER	CA	93536
ESPANA CARLOS E / ESPANA RITA	40828 SLATE CT		PALMDALE	CA	93551-1805
ESPARZA JUAN A / ESPARZA JILLIAN M	810 E AVENUE G		LANCASTER	CA	93535-5903
ESPINAL JOSE NAD MARINA	47918 120TH ST E		LANCASTER	CA	93535-8009
ESPINOZA JOSE L	18805 E AVENUE R8		LLANO	CA	93544
ESQUIVEL JUAN F / ESQUIVEL FRANCISCA G	37215 THE GRVS		PALMDALE	CA	93551-6235
ESTA EVANGELISTA	1046 W HOLGUIN ST		LANCASTER	CA	93534-1442
ESTABAN GONZALEZ	29679 GASKELL RD		LANCASTER	CA	93536-9614
ESTEBAN AGUILAR	5818 HIDDEN TRAIL RD		ROSAMOND	CA	93560-6917
ESTELA GARCIA	7601 W AVENUE A		LANCASTER	CA	93536-9623
ESTELA MURO	3311 AIRWAY LN		ROSAMOND	CA	93560-6471
ESTES CHRISTOPHER W / ESTES TAMMY F	49606 230TH ST W		LANCASTER	CA	93536-9275
ESTEVAN RAMIREZ	6313 ASTORIA AVE		ROSAMOND	CA	93560-6536
ESTHER AGLUGUB	25755 HAWTHORNE PL		STEVENSON RNH	CA	91381-1452
ESTHER AKIODE	6213 TANGELO PL		SIMI VALLEY	CA	93063-7072
ESTHER CALDERON	6456 HOLIDAY AVE		ROSAMOND	CA	93560-6522
ESTHER GOMEZ	1332 99TH ST W		ROSAMOND	CA	93560-7538
ESTHER GREENE	7509 FREESTONE LN		LITTLEROCK	CA	93543-3010
ESTHER JONES	9440 E AVENUE I		LANCASTER	CA	93535-8400
ESTHER LIU	6485 DARBY AVE		LAS VEGAS	NV	89146-6600
ESTHER NELSON	36524 W JONES AVE		TONOPAH	AZ	85354-7570
ESTHER WHITE	PO BOX 3206		LANCASTER	CA	93586-0206
ESTRADA DIEGO / ESTRADA MARLENE I	43066 36TH ST W		LANCASTER	CA	93536-4870
ETHEL MCCULLOCH	5117 CRENSHAW BLVD APT 11		LOS ANGELES	CA	90043-1892

ETHEL TAMETE	0 67-211 KALIUNA ST		WAIALUA	HI	96791
ETHERTON CAROLYN J	717 E OLDFIELD ST		LANCASTER	CA	93535-3217
EUDALDO ROSALES	9725 E BILLINGS CT		MESA	AZ	85207-8002
EUFEMIA MANUEL	42936 FAIRLEE DR		LANCASTER	CA	93536-4636
EUGENE BLOCK	24262 JUNIPER AVE		BORON	CA	93516-1329
EUGENE BROTH	5250 TWIN OAKS RD		HIDDEN HILLS	CA	91302-2416
EUGENE NEBEKER	400 N ROCKINGHAM AVE		LOS ANGELES	CA	90049-2638
EUGENE SIEGEL	PO BOX 363		LITTLEROCK	CA	93543-0363
EUGENE WON	11901 SANTA MONICA BLVD STE 110		LOS ANGELES	CA	90025-2782
EUGENIA FELTER	PO BOX 1030		ROSAMOND	CA	93560-1030
EUN CHOI	25269 THE OLD RD STE B		STEVENSON RANCH	CA	91381-2202
EURALARY BILLYZONE	542 E AVENUE G		LANCASTER	CA	93535-5900
EVA DI MATTIO	PO BOX 20		LANCASTER	CA	93584-0020
EVA RAMIREZ	PO BOX 1599		ROSAMOND	CA	93560-1599
EVAN LANE	905 MISSION CREEK DR		PALM DESERT	CA	92211-5910
EVANGELINE BALDOZ	4566 WOLVERINE WAY		ANTIOCH	CA	94531-7677
EVANS THELMA P	43035 FAIRLEE DR		LANCASTER	CA	93536-4605
EVELYN ARGUETA	3808 PARK VISTA CT		ROSAMOND	CA	93560-5912
EVELYN BEALMER	2833 55TH ST W		ROSAMOND	CA	93560-6539
EVELYN HOUSE	PO BOX 1874		ROSAMOND	CA	93560-1874
EVERARDO GUERRERO	5902 MARGARITHA LN		ROSAMOND	CA	93560-6916
EVERETT BEALE	PO BOX 1850		ROSAMOND	CA	93560-1850
EZEJUEK DAVID	1338 N DETROIT ST APT 7		LOS ANGELES	CA	90046-4426
EZEKIAL UNITED MISSION	C/O DAVID WADA	17906 POINT ARGUELLO PLACE	CERRITOS	CA	90703
EZEQUIEL CARONA	8715 FAVORITO AVE		ROSAMOND	CA	93560-7181
FADDOUL CHRIS / FADDOUL PAM	7605 W AVENUE H		LANCASTER	CA	93536-8111
FAE BROOKS	19213 SCHOENBORN ST		NORTHRIDGE	CA	91324-4249
FALASSI PAUL L / FALASSI CAROL A	50632 70TH ST W		LANCASTER	CA	93536-9517
FALCON POINTE LLC	15345 BONANZA RD STE A		VICTORVILLE	CA	92392-2499
FANNY MENESES	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
FARGO WELLS	6501 IRVINE CENTER DR		IRVINE	CA	92618-2118
FARHA HADDAD	17046 CANVAS ST		CANYON CNTRY	CA	91387-3119
FARMER CONSTANCE	6720 GASKELL RD		ROSAMOND	CA	93560-7132
FARR SONEI	21601 VANOWEN ST STE 203		CANOGA PARK	CA	91303-2757
FARROW DAVID / FARROW DEBORAH	25737 W AVENUE B		LANCASTER	CA	93536-9186
FATIMA ZARATE	601 5TH AVE		SCOTTSBLUFF	NE	69361-3581
FAVIOLA CORTEZ	6654 W AVENUE L4		LANCASTER	CA	93536-4560
FAY CAIN	2032 MAPLEWOOD CT S		SALEM	OR	97306-2355
FAY MILDRED	24263 JOSHUA AVE		BORON	CA	93516-1322
FEDERAL HOME LOAN	5000 PLANO PKWY		CARROLLTON	TX	75010-4900
FEDERAL NATIONAL MORGAGE ASSN	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
FEDERAL NATL MTG ASSN FNMA	601 5TH AVE		SCOTTSBLUFF	NE	69361-3581
FEDERICO GONZALEZ	4310 CIMARRON RIDGE DR		BAKERSFIELD	CA	93313-5549
FEJES MICHAEL P / WEBB MADLEINE K	11508 LINDA MESA RD		LITTLEROCK	CA	93543-4223
FELDER WILLIAM J / FELDER SHERI L	5859 E AVENUE F		LANCASTER	CA	93535-7831
FELECIA BOYETT	24274 SAGE AVE		BORON	CA	93516-1334
FELICIA DARNOLD	8543 ROSAMOND BLVD		ROSAMOND	CA	93560
FELIPA GUZMAN	0 99-080 OLOPARIA ST		AIEA	HI	96701
FELIX TAPIA	6908 DE CELIS PL		VAN NUYS	CA	91406-4605
FELIX TAPIA	6400 GOBI AVE		ROSAMOND	CA	93560-7514
FERAIDOON MOSTOUFI	48550 190TH ST W		LANCASTER	CA	93536-9363
FERNANDEZ ENRIQUE / FERNANDEZ CLEMENTINA	37128 185TH ST E		LLANO	CA	93544-1464
FERNANDEZ FAMILY LIVING TRUST	166 LEE AVE		SAN FRANCISCO	CA	94112-2346
FERNANDO BENITEZ	39031 230TH ST E		PALMDALE	CA	93591-4707
FERNANDO SPIRITO	1270 NORTHLAND DR STE 200		MENDOTA HEIGHTS	MN	55120-1176
FERRAND GEROGE / FERRAND CHERYL	654 E AVENUE G		LANCASTER	CA	93535-5901
FILLMORE HUBERT L	18580 W AVENUE E		LANCASTER	CA	93536-9066
FINBERG ROBERT W; MARY L	FINBERG TRUST	12202 JUNIPER HILLS RD	PEARBLOSSOM	CA	93553-3456
FIRSICK BARBARA J	48157 70TH ST E		LANCASTER	CA	93535-7842
FIRSICK THOMAS B	47851 70TH ST E		LANCASTER	CA	93535-7839
FIRST FRANKLIN FINANCIAL CORP	150 ALLEGHENY CENTER MALL		PITTSBURGH	PA	15212-5335
FISHER MICHAEL O / FISHER S LASHELLE	46125 100TH ST E		LANCASTER	CA	93535-8421
FLINT MICHAEL W / FLINT DEBORAH M	37116 THE GRVS		PALMDALE	CA	93551-6232
FLORA CURTIS	3680 JASMINE AVE		ROSAMOND	CA	93560-7675
FLORENCE MC INTOSH	6201 N 16TH ST APT 105		PHOENIX	AZ	85016-1751
FLORES JUAN / FLORES MARIA	5633 W AVENUE H		LANCASTER	CA	93536-8332
FLORES SALVADOR / FLORES AIDA	2740 W AVENUE F		LANCASTER	CA	93536-9565
FODI INC	17037 CHATSWORTH ST STE 101		GRANADA HILLS	CA	91344-5881
FONTENOT ROBERT JR	40815 SILTSTONE CT		PALMDALE	CA	93551-1853
FORECAST LAND CORP	21250 CALIFA ST	STE 113	WOODLAND HLS	CA	91367-5025
FOREST SCHERMERHORN	PO BOX 1271		ROSAMOND	CA	93560-1271
FORTE LOUIS L	4123 W AVENUE F		LANCASTER	CA	93536-9561
FOSTER JARVIS	12491 EL MIRAGE ST		BORON	CA	93516-1354
FOSTER MARTIN L / BULLION DONNA J	23814 W AVENUE D12		LANCASTER	CA	93536-9118
FOUNTAIN ENTERPRISES AND	13636 VENTURA BLVD # 273		SHERMAN OAKS	CA	91423-3700
FOURR DEAN W / FOURR JANIS R	8212 E AVENUE H		LANCASTER	CA	93535-7902
FRAN ELLWOOD	24152 CHAPARRAL AVE		BORON	CA	93516-1304
FRANCES APPLEBY	1525 60TH ST W		ROSAMOND	CA	93560-6574
FRANCES BURNETT	PO BOX 877		ROSAMOND	CA	93560-0877
FRANCES MASON	2609 HONOLULU AVE STE 100		MONTROSE	CA	91020-1734
FRANCES MIGUEL	1111 GULICK AVE		HONOLULU	HI	96819-4514
FRANCES NANDAL	PO BOX 1035		DESERT HOT SPRINGS	CA	92240-0914
FRANCES PATTERSON	16754 E AVENUE X SPC 48		LLANO	CA	93544-1005
FRANCES PENNA	PO BOX 844		LEBEC	CA	93243-0844
FRANCES VEGA	1025 W AVENUE I	# 4	LANCASTER	CA	93534-2243
FRANCES YARDLEY	PO BOX 186		ELDRIDGE	CA	95431-0186
FRANCHELLE JOHNSON	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851

FRANCINE CARROLL	5106 W AVENUE K8		QUARTZ HILL	CA	93536-5143
FRANCIS CHAMPAGNE	7989 RENEE CIR STE CI		BENTON	AR	72019-9551
FRANCIS KENNETH P	28545 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3423
FRANCISCA SUAREZ	5953 WILLOW AVE		ROSAMOND	CA	93560-7235
FRANCISCO GARCIA	171 CAGEL ST		ROSAMOND	CA	93560-6906
FRANCISCO MARTINEZ	3622 IGO ST		SAN ANTONIO	TX	78230-2305
FRANCISCO ORTA	4491 SEPULVEDA BLVD		CULVER CITY	CA	90230-4848
FRANK CHIODO	376 SIERRA SPRINGS DR		MAMMOTH LAKES	CA	93546-9579
FRANK FELIX	812 PAHUMELE PL		KAILUA	HI	96734-3514
FRANK FRANCO	12204 ALBERTA DR		CULVER CITY	CA	90230-5906
FRANK GERWAT	PO BOX 2330		ROSAMOND	CA	93560-2330
FRANK GONZALES	PO BOX 1981		LANCASTER	CA	93539-1981
FRANK HANSCHMIDT	5282 SOUTHSIDE # C		NAMPA	ID	83686
FRANK KENTON	10200 CIMA MESA RD		JUNIPER HILLS	CA	93543-3637
FRANK LESTER	446 SAN VICENTE BLVD UNIT 201		SANTA MONICA	CA	90402-1712
FRANK MALLOCH	5891 CASSON DR		YORBA LINDA	CA	92886-9020
FRANK MATLOCK	25830 CHERRYHILL DR		BORON	CA	93516-1203
FRANK NIEDERMEIER	2405 W 169TH PL		TORRANCE	CA	90504-2829
FRANK PRITCHARD	8029 HAZEL AVE		ORANGEVALE	CA	95662-2104
FRANK SMITH	10961 DESERT LAWN DR SPC 260		CALIMESA	CA	92320-2215
FRANK WHITE	PO BOX 3206		LANCASTER	CA	93586-0206
FRANKLIN ALFRED	28000 BUCHANNON RANCH RD		LLANO	CA	93544-1569
FRANKLIN BRASFIELD	PO BOX 2567		ROSAMOND	CA	93560-2567
FRANKLIN ELLIOTT	7435 35TH ST W		MOJAVE	CA	93501-7304
FRANTZ BARRY N / FRANTZ DIANE	11100 JUNIPER MESA RD		LITTLEROCK	CA	93543-3601
FRAZIER BARBARA G	29230 BOBS GAP RD		VALYERMO	CA	93563-1009
FRED GOREE	PO BOX 2412		LANCASTER	CA	93539-2412
FRED HINKLE	2193 100TH ST W		ROSAMOND	CA	93560-7012
FREDDIE MUNOZ	519 E 148TH ST	APT 1	BRONX	NY	10455-2870
FREDERICK MOBLEY	327 SE ST		LOMPOC	CA	93436
FREEMAN LYLE	PO BOX 3607		PLS VRDS PNSL	CA	90274-9511
FREEMAN VALERIE J	9523 COLLEY PL		LITTLEROCK	CA	93543-3630
FREGOSO HOLLADAY	10931 HAMILTON RD		WILLOW SPRINGS	CA	93560-7199
FRITZ ROBERT L ; MARTHA L / FRITZ FAMILY	14645 BIG SKY DR		PEARBLOSSOM	CA	93553-3437
FULLER RONALD J / FULLER JANET R	18611 W AVENUE E4		LANCASTER	CA	93536-9049
G CRABB	310 S 11TH PL		ROGERS	AR	72756-4251
G S EQUITY RESOURCES II INC	PO BOX 8159		CALABASAS	CA	91372-8159
G8 CAPITAL FUND IX LLC	999 CORPORATE DR STE 215		LADERA RANCH	CA	92694-2148
GABRIEL MORADO	1363 RIDGEMONT CT		OCEANSIDE	CA	92056-6621
GABRIEL VALDIVIA	4627 SWEETSER RD		ROSAMOND	CA	93560-6454
GABRIELA BORROEL	2400 100TH ST W		ROSAMOND	CA	93560-7080
GABRIELA GARCIA	2632 VIA RAMONA		LANCASTER	CA	93535
GAIL ENGLISH	PO BOX 114		BORON	CA	93596-0114
GAILEN KYLE	12345 E AVENUE J		LANCASTER	CA	93535-8704
GALDAMEZ NORA J	45403 DIVISION ST		LANCASTER	CA	93535-1825
GALLAGHER THOMAS J / GALLAGHER FAMILY	46200 30TH ST E		LANCASTER	CA	93535-7611
GALLOWAY GLENN	45153 112TH ST W		LANCASTER	CA	93536-9011
GAMAR DOURBAYAN	69520 CRESTVIEW DR		DSRT HOT SPGS	CA	92241-8724
GAMEZ MANUEL / GAMEZ SOLEDAD	638 E AVENUE G		LANCASTER	CA	93535-5901
GAR HOUSE	655 W BROADWAY		SAN DIEGO	CA	92101-8590
GARBELL JEFFREY R / GARBELL SUZANNE M	40827 GRANITE ST		PALMDALE	CA	93551-1806
GARCIA LUIS / GARCIA BLANCA J	9487 E AVENUE E		LANCASTER	CA	93535-7933
GARCIA MARIO N / GARCIA LAURA	40814 COBBLESTONE CT		PALMDALE	CA	93551-1849
GARIBAY GARY J / SAN JUANITA	6612 E AVENUE K		LANCASTER	CA	93535-8614
GARIBAY GARY J / SAN JUANITA	6612 E AVENUE K		LANCASTER	CA	93535-8614
GARRETT JACK / SATTERFIELD GARRETT J M	9348 W AVENUE I		LANCASTER	CA	93536-8002
GARRETT JOANNE J / GARRETT FAMILY	1018 ASPEN GROVE CIR		MINDEN	NV	89423-4455
GARRY BLUE	16771 ALEXANDER AVE		EDWARDS	CA	93523-3525
GARY BURCHETT	2204 AGNES ST		EAU CLAIRE	WI	54701-4705
GARY DEVOE	PO BOX 691		LAKE HUGHES	CA	93532
GARY DEXTER	18702 KINGS ROW AVE		CERRITOS	CA	90703-8050
GARY FRAPPIER	PO BOX 2852		LANCASTER	CA	93539-2852
GARY GLENN	957 PERALTA AVE		ALBANY	CA	94706-2144
GARY GRIER	2951 59TH ST W		ROSAMOND	CA	93560-6274
GARY GRIMES	39749 MAKIN AVE		PALMDALE	CA	93551-2940
GARY JENSEN	895 B ST # 305		HAYWARD	CA	94541-5107
GARY JORDAN	PO BOX 756		BORON	CA	93596-0756
GARY POCHMARA	PO BOX 2260		ROSAMOND	CA	93560-2260
GARY STABELL	572 60TH ST W		ROSAMOND	CA	93560-6956
GARY SUTTON	PO BOX 391		LANCASTER	CA	93584-0391
GARY VANDAM	7304 E AVENUE F		LANCASTER	CA	93535-7823
GARY YOTHER	10735 ROSS RD		LITTLEROCK	CA	93543-3647
GASPARA GAZMEN	18700 LEMAY ST		RESEDA	CA	91335-5214
GAVER RICHARD / GAVER CHRISTOPHER R	PO BOX 474		CONCORD	CA	94522-0474
GAY GRANT	111 1/2 AMETHYST AVE		NEWPORT BEACH	CA	92662-6407
GAYE MOBLEY	327 SE ST		LOMPOC	CA	93436
GAYLE BOVEE	PO BOX 427		ROSAMOND	CA	93560-0427
GAYLE FENALD	PO BOX 6886		LANCASTER	CA	93539-6886
GAYLE MERGILI	PO BOX 2531		ROSAMOND	CA	93560-2531
GEMMA AMPONGAN	PO BOX 5674		SHERMAN OAKS	CA	91413-5674
GENARO CONTRERAS	23588 W AVENUE D # D		LANCASTER	CA	93536-9259
GENE CHEN	19757 STAGG ST		WINNETKA	CA	91306-2651
GENE CROWNOVER	30461 CINNAMON TEAL DR		CANYON LAKE	CA	92587-7761
GENE HOUSE	5491 TEHACHAPI WILLOW SPRINGS RD		ROSAMOND	CA	93560-7504
GENE HOUSE	5491 TEHACHAPI WILLOW SPRINGS RD		ROSAMOND	CA	93560-7504
GENE HUDSPETH	7664 S DANFORTH AVE		TUCSON	AZ	85747-9237
GENE MELCHERS	PO BOX 1468		ROSAMOND	CA	93560-1468

GENE PICOU	40432 11TH ST W			PALMDALE	CA	93551-2017
GENEVIE ROTONDO	20 SUMMERFIELD ST			THOUSAND OAKS	CA	91360-2916
GENEVIVE ZAVALA	6781 GASKELL RD			ROSAMOND	CA	93560-7132
GENZ DEVELOPMENT INC	2007 S BEVERLY GLEN BLVD APT 301			LOS ANGELES	CA	90025-5138
GEORGE ADAMS	6500 150TH ST W			ROSAMOND	CA	93560-7136
GEORGE AMAYA	24072 CHAPARRAL AVE			BORON	CA	93516-1302
GEORGE CHRISTMANN	1201 SCIOTO RD	APT 226A		SEAL BEACH	CA	90740-3247
GEORGE COPELAND	PO BOX 1244			ROSAMOND	CA	93560-1244
GEORGE CRAIG	PO BOX 2553			ROSAMOND	CA	93560-2553
GEORGE CURTIS	3680 JASMINE AVE			ROSAMOND	CA	93560-7675
GEORGE DIAZ	2381 46TH ST W			ROSAMOND	CA	93560-6277
GEORGE ELIAN	25531 PEMBROOK PL			SANTA CLARITA	CA	91350-3025
GEORGE ELLIS	64 IDELL CT			BYRON	GA	31008-5380
GEORGE FOLCK	355 E GLADSTONE ST			SAN DIMAS	CA	91773-1902
GEORGE GUTIERREZ	3137 E AVENUE Q 14			PALMDALE	CA	93550
GEORGE HATFIELD	818 60TH ST W			ROSAMOND	CA	93560-6910
GEORGE HIGH	3545 PASEO DE FRANCISCO UNIT 230			OCEANSIDE	CA	92056-4174
GEORGE JONES	13823 EMORY DR			WHITTIER	CA	90605-1014
GEORGE JONES	9801 CIMA MESA RD			LITTLEROCK	CA	93543-3634
GEORGE KLECHEFSKI	1112 LAKEMOOR DR			SAINT PAUL	MN	55129-5307
GEORGE KOSTOPOULOS	24422 TAMARISK AVE			BORON	CA	93516-1358
GEORGE LIZOTTE	3824 KNOX AVE			ROSAMOND	CA	93560-6412
GEORGE LUJAN	8748 W ROSAMOND BLVD			ROSAMOND	CA	93560-6972
GEORGE MATSUI	325 S BOYLE AVE			LOS ANGELES	CA	90033-3812
GEORGE MLINAR	24360 JUNIPER AVE			BORON	CA	93516-1364
GEORGE RICHARDSON	16761 FOOTHILL AVE			NORTH EDWARDS	CA	93523-3535
GEORGE SHIGENAGA	101 KANANI RD	APT 129		KIHEI	HI	96753-6807
GEORGE SKELTON	HCR 3 BOX 352-C			ROSAMOND	CA	93560
GEORGE STEMWEDEL	4766 45TH ST W			ROSAMOND	CA	93560-6494
GEORGE TAPIA	7137 GASKELL RD			ROSAMOND	CA	93560-7031
GEORGE WEBB	9937 W AVENUE A			ROSAMOND	CA	93560-7371
GEORGE WILSON	6012 SULTANA AVE			TEMPLE CITY	CA	91780-1549
GEORGE YEE	8538 LA MADRINA DR			ROSEMEAD	CA	91770-4302
GEORGIA ELIOPULOS	42225 104 ST W STE 101			LANCASTER	CA	93534
GEORGINA FABER	3882 TRAVELER DR			SARALAND	AL	36571-9556
GEORGINA FEBER	1882 140TH ST W			ROSAMOND	CA	93560-7074
GEORGINA HADDEN	9344 E AVENUE T 2			LITTLEROCK	CA	93543-2203
GERALD BIGALK	44133 LIGHTWOOD AVE			LANCASTER	CA	93534-4228
GERALD BROOKS	9241 W AVENUE A			ROSAMOND	CA	93560-7083
GERALD CRIST	3640 E AVENUE H2			LANCASTER	CA	93535-1630
GERALD GODDE	470 90TH ST W			ROSAMOND	CA	93560-7084
GERALD HENRY	44606 SIERRA HWY			LANCASTER	CA	93534-3556
GERALD HYNEMAN	PO BOX 1509			WELDON	CA	93283-1509
GERALD ROGERS	PO BOX 720283			PINON HILLS	CA	92372-0283
GERALD SCHOENFELD	3020 DIXON ST			ROSAMOND	CA	93560-6180
GERALD SMITH	191 HAYES ST			BENTON	KY	42025-6677
GERALD STEMPFLEY	45731 48TH ST W			LANCASTER	CA	93536-8339
GERALD WESLEY	PO BOX 2843			SANTA CLARITA	CA	91386-2843
GERALD WRIGHT	13004 PAWNEE RD			APPLE VALLEY	CA	92308-5776
GERALDINE NAKATANI	4918 SUMMIT VIEW LN			FAIR OAKS	CA	95628-6578
GERALDING HEMMERLING	369 HOMEWOOD RD			LOS ANGELES	CA	90049-2711
GERARD CONROY	29669 LANCASTER RD			LANCASTER	CA	93536-9016
GERARDO ROMERO	7360 W AVENUE G			LANCASTER	CA	93536-8618
GERDA STYRMAN	PO BOX 1745			SAN JUAN CAPO	CA	92693-1745
GERMAN LOAISIGA	PO BOX 900031			PALMDALE	CA	93590-0031
GERNER GEORGE E ; JO G / GERNER TRUST	27939 PINE ROCK RD			PEARBLOSSOM	CA	93553-3433
GERRI ZIEL	28714 CRUTHERS CREEK RD			PEARBLOSSOM	CA	93553-3426
GERTRUD CLARK	24209 CHAPARRAL AVE			BORON	CA	93516-1305
GERTRUDE DIONNE	805 E AVENUE K STE 109 PMB 126			LANCASTER	CA	93535-4733
GERTRUDE VANDAM	9711 E AVENUE F8			LANCASTER	CA	93535-7913
GERZAHIN GASPAR	7245 SHOUP AVE			WEST HILLS	CA	91307-1735
GEZALYAN ARMEN	48419 190TH ST W			LANCASTER	CA	93536-9736
GHASSAN QURA	511 CYPRESS AVE			MILLBRAE	CA	94030-1208
GIANG HONG	4817 FIR AVE			SEAL BEACH	CA	90740-3012
GIBBS JOHNNY R / GIBBS LISA R	18106 E AVENUE O			LAKE LOS ANGELES	CA	93591-3804
GIBRALTER INVESTMENT PROPERTIES	PO BOX 517			AGOURA HILLS	CA	91376-0517
GILBERT JOE D / GILBERT NANCY R	6851 W AVENUE I			LANCASTER	CA	93536-8319
GILBERT VANHORN	PO BOX 207			LLANO	CA	93544-0207
GILDARDO GUEVARA	PO BOX 399			ROSAMOND	CA	93560-0399
GILLI ROY	PO BOX 5124			LANCASTER	CA	93539-5124
GILLIAM JACK / GILLIAM DELMA	40802 SLATE CT			PALMDALE	CA	93551-1805
GILMOUR PIKE ENTERPRISES INC	PO BOX 232			CASTAIC	CA	91310-0232
GIRON WILLIAM G	1703 W AVENUE E			LANCASTER	CA	93534-7401
GISEL CHAVEZ	4425 JASPER ST			LOS ANGELES	CA	90032-2608
GIUSEPPE FIORELLA	1738 N AVON ST			BURBANK	CA	91505-1503
GIVENS CONSTANCE	GIVENS ROBERT C; JANET F	12142 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4200
GLADYS BORJA	29204 LAS BRISAS RD			SANTA CLARITA	CA	91354-1541
GLADYS HARSHBARGER	3524 E AVENUE R SPC 209			PALMDALE	CA	93550-5089
GLEN RICHARDSON	5420 62ND ST W			ROSAMOND	CA	93560-6254
GLENDA TERRILL	PO BOX 320			BORON	CA	93596-0320
GLENDA WILLIS	19436 GASKELL RD			ROSAMOND	CA	93560-7289
GLENN HOWARD	8412 POPPY BLVD			CALIF CITY	CA	93505-2021
GLENN HULSE	38701 BANYAN PL			MORENO VALLEY	CA	92551
GLENN TAYLOR	35967 53RD ST E			PALMDALE	CA	93552-6333
GLENN YAMASHIRO	4828 LOOP CENTRAL DR			HOUSTON	TX	77081-2212
GLENNY MINAMI	0 2F 1 11 AN HO RD SEC 1	TAIPEI	TAIWAN R O C			
GLORIA ALESSO	PO BOX 1839			LANCASTER	CA	93539

GLORIA CALDERA	110 LIME ST		INGLEWOOD	CA	90301-2618
GLORIA DELORIS	28105 ROBIN AVE		SAUGUS	CA	91350-2049
GLORIA HANES	42016 SILVER PUFFS DR		QUARTZ HILL	CA	93536-7301
GLORIA KISLIG	31951 AVENIDA EVITA		SAN JUAN CAPO	CA	92675-3901
GLORIA MOORE	12469 EL MIRAGE ST		BORON	CA	93516-1354
GLORIA PEREZ	7408 AMIGO AVE		RESEDA	CA	91335-2810
GLORIA RODRIGUEZ	9500 LAUREL CANYON BLVD		ARLETA	CA	91331-4213
GLORIA RODRIGUEZ	9500 LAUREL CANYON BLVD		ARLETA	CA	91331-4213
GMAC MORTGAGE LLC	500 ENTERPRISE RD # 150		HORSHAM	PA	19044-3503
GMAC MTG LLC	1100 VIRGINIA DR		FORT WASHINGTON	PA	19034-3204
GOEMZ GERVACIO	47053 4TH ST W		LANCASTER	CA	93534-7500
GOMEZ CARLOS E / GOMEZ DEBRA C	9020 W IVESBROOK ST		LANCASTER	CA	93536-7708
GOMEZ MANUELA	14659 E AVENUE N		LANCASTER	CA	93535-7060
GONZALES JAMES G	3131 HOLLYDALE DR		LOS ANGELES	CA	90039-2307
GONZALEZ ANGELA L / JACKSON SAMUEL	36556 165TH ST E		LLANO	CA	93544-1136
GONZALEZ DIANA	43037 FLAG ST		LANCASTER	CA	93536-4651
GONZALEZ ESMERALDA	9159 E AVENUE E		LANCASTER	CA	93535-7935
GONZALO ARELLANO	21413 E AVENUE S		PALMDALE	CA	93591-4519
GONZALO BARRERA	PO BOX 1599		ROSAMOND	CA	93560-1599
GOODYORK CORPORATION	48303 20TH ST W OFC		LANCASTER	CA	93534-7424
GOODYORK CORPORATION AND	48303 20TH ST W OFC		LANCASTER	CA	93534-7424
GORDON HILL	22853 W AVENUE D11		LANCASTER	CA	93536-9110
GORDON POWERS	2410 HIDDEN HILLS LN		LINCOLN	CA	95648-8212
GORDON SMITH	PO BOX 763		ROSAMOND	CA	93560-0763
GORMAN JERRY A / GORMAN BEVERLY J	48500 95TH ST E		LANCASTER	CA	93535-7932
GORSKI RONALD / GORSKI ELIZABETH	39358 VICKER CT		PALMDALE	CA	93551-1067
GOULET TIMOTHY W / GOULET MELANIE G	43055 FLAG ST		LANCASTER	CA	93536-4651
GRACE BORJA	1001 SEMMES AVE		RICHMOND	VA	23224-2245
GRACE FINK	PO BOX 1254		ROSAMOND	CA	93560-1254
GRACE WILKINSON	PO BOX 1095		LANCASTER	CA	93584-1095
GRACIELA MACHUCA	PO BOX 500067		PALMDALE	CA	93550-0067
GRADY COLUMBIA	1514 CARSON MESA RD		PALMDALE	CA	93550-9725
GRAEFE KARIN S / GRAEFE DANIELLE K	47755 180TH ST W		LANCASTER	CA	93536-9059
GRANGER STEVEN B / GRANGER DONNA A	30666 VALYERMO RD		VALYERMO	CA	93563
GRANT ROBERT C / GRANT FAMILY	37147 186TH ST E		LLANO	CA	93544-1414
GRAY JERRY W / GRAY MISTY A	29840 LANCASTER RD		LANCASTER	CA	93536-9029
GRAY KEANYN	2313 EVENING PRIMROSE AVE		PALMDALE	CA	93551-4184
GREEN	2331 DIAMOND HEAD WAY		OXNARD	CA	93036-7763
GREEN DANNY J	48001 140TH ST E		LANCASTER	CA	93535-8018
GREEN DAVID ; VICTORIA L / GREEN FAMILY	40508 154TH ST E		LANCASTER	CA	93535-7027
GREENFIELD ADAM / PEREZ JOSE Z	36563 165TH ST E		LLANO	CA	93544
GREG SZERDI	PO BOX 455		LLANO	CA	93544-0455
GREG TOY	35591 RAINLEAF CT		ELIZABETH	CO	80107-7855
GREGG PINO	1501 E AVENUE I SPC 112		LANCASTER	CA	93535-2246
GREGORIO SALVA	337 E 213TH ST		CARSON	CA	90745-2132
GREGORY BIRDSALL	1680 KATEE LN		PALMDALE	CA	93550-9238
GREGORY CALL	26147 E AVENUE U10		LLANO	CA	93544-1586
GREGORY COVERDILL	28650 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553
GREGORY HARRISON	PO BOX 2328		ROSAMOND	CA	93560-2328
GREGORY HOGAN	20350 WEST AVENUE F		LANCASTER	CA	93536
GREGORY HOVATEN	PO BOX 370065		LAS VEGAS	NV	89137-0065
GREGORY JENKINS	7916 GASKELL RD		ROSAMOND	CA	93560-7277
GREGORY JENKINS	7916 GASKELL RD		ROSAMOND	CA	93560-7277
GREGORY MAKSHANOFF	PO BOX 2233		ROSAMOND	CA	93560-2233
GREGORY RIDGWAY	5141 61ST ST W		ROSAMOND	CA	93560-6464
GREGORY SHAW	PO BOX 903386		PALMDALE	CA	93590-3386
GREGORY WILLIAM A	GREGORY JENSEN FAMILY	11215 JUNIPER MESA RD	LITTLEROCK	CA	93543-3603
GRIFFING STEVEN D / GRIFFING SHARON C	10205 E AVENUE J		LANCASTER	CA	93535-8505
GRIMES MICHAEL J	50235 82ND ST W		LANCASTER	CA	93536-9439
GRIVA AUDREY	7808 W LANCASTER BLVD		LANCASTER	CA	93536-8110
GROVEN DENNIS L / GROVEN FAMILY	43036 42ND ST W		LANCASTER	CA	93536-5007
GROVER JOHNSON	10117 LESLIE AVE		ROSAMOND	CA	93560-7008
GRP LOAN LLC	360 HAMILTON AVE FL 5		WHITE PLAINS	NY	10601-1811
GS EQUITY RESOURCES 11 INC	PO BOX 8159		CALABASAS	CA	91372-8159
GUADALUPE HERNANDEZ	3425 DAKOTA ST		ROSAMOND	CA	93560-7604
GUADALUPE VIRGEN	PO BOX 1804		ROSAMOND	CA	93560-1804
GUERRA HERNAN A / GUERRA MARITZA J	49155 3 POINTS RD		LANCASTER	CA	93536-9207
GUILDA TEEL	PO BOX 366		LITTLEROCK	CA	93543-0366
GUOJUN PENG	2246 CALLE OPALO		SAN CLEMENTE	CA	92673-5618
GURCHARAN DHINSA	3053 RANCHO VISTA BLVD # 101		PALMDALE	CA	93551-4823
GUSMAN DAVID A / GUSMAN APRIL L	37122 THE GRVS		PALMDALE	CA	93551-6232
GUSTAVO MENDOZA	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
GUSTAVO PRECIADO	400 COUNTRYWIDE WAY		SIMI VALLEY	CA	93065-6298
GUTIERREZ EUSEBIO S	4155 E AVENUE H		LANCASTER	CA	93535-7716
GUTIERREZ LUZ A / GUTIERREZ CARLOS G	48813 100TH ST E		LANCASTER	CA	93535-7919
GUTIERREZ RAFAEL	11137 LAMBERT AVE		EL MONTE	CA	91731-1644
GUY ADAMS	1405 90TH ST W		ROSAMOND	CA	93560-7175
GUY CAPUTO	PO BOX 1324		ROSAMOND	CA	93560-1324
GUY SCHMITZ	PO BOX 1877		ROSAMOND	CA	93560-1877
GUZMAN MAYRA / LOPEZ PEDRO	167 E AVENUE F		LANCASTER	CA	93535-6411
GUZMAN MAYRA / LOPEZ PEDRO	167 E AVENUE F		LANCASTER	CA	93535-6411
GWANG KIM	4499 VIA MARISOL # 22B		LOS ANGELES	CA	90042-5147
GWEN FROMBERG	PO BOX 2575		LANCASTER	CA	93539-2575
GWENDOLYN BROWN	PO BOX 305		ROSAMOND	CA	93560-0305
GWENDOLYN CRAIGCARPENTER	4828 LOOP CENTRAL DR		HOUSTON	TX	77081-2212
GYU LI ZHEN	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
H & N DEVELOPMENT CO INC	PO BOX 602		DENAIR	CA	95316-0602

H U D	2135 FRESNO ST STE 100		FRESNO	CA	93721-1718
HAE OH	19151 LA QUINTA PL		APPLE VALLEY	CA	92308-2700
HAENG LEE	12650 INGENUITY DR		ORLANDO	FL	32826-2703
HAGENBAUGH RANCH LLC ET AL	305 PASADENA AVE		SOUTH PASADENA	CA	91030-2904
HAKES	845 E 1000 S		SPANISH FORK	UT	84660-2906
HAKES	25824 CHERRYHILL DR		BORON	CA	93516-1203
HAL MCDERMOTT	PO BOX 1033		ROSAMOND	CA	93560-1033
HALLIE MCDERMOTT	49505 60TH ST W		LANCASTER	CA	93536-9555
HAMID FARAJI	26511 MINAKOS DR		MISSION VIEJO	CA	92692
HAMILL MICHAEL R / HAMILL VIRGINIA	45615 140TH ST E		LANCASTER	CA	93535-8752
HANCEL VILLATORO	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
HANNAH CHONG	336 S OCCIDENTAL BLVD APT 607		LOS ANGELES	CA	90057-1547
HANSEN BUTTERWORTH DESSIE E	BUTTERWORTH EVERETT J	756 E AVENUE G	LANCASTER	CA	93535-5902
HANSEN GORDON L / HANSEN SHIRLEY R	742 E AVENUE G		LANCASTER	CA	93535-5902
HANSEN SKIP M / HANSEN LISA M	4536 CINNABAR AVE		PALMDALE	CA	93551-1854
HANSOO KYOUNG	3600 WILSHIRE BLVD STE 2230		LOS ANGELES	CA	90010-2632
HAO PHAN	959 JUNESONG WAY		SAN JOSE	CA	95133-1121
HAPPY DIAMOND LAND LLC	1054 S DE ANZA BLVD # 202		CUPERTINO	CA	95014
HARLEY HUTSON	1900 KATHRYN CT		BAKERSFIELD	CA	93312-2820
HAROLD BRAGG	4890 90TH ST W		ROSAMOND	CA	93560-6958
HAROLD DURIAN	1705 BRIDGEPORT AVE		CLAREMONT	CA	91711-2519
HAROLD LOUIE	PO BOX 3414		LANCASTER	CA	93586-3414
HAROLD NYHOLM	2010 W K AVE # 807		LANCASTER	CA	93536
HAROLD TRUITT	4584 50TH ST W		ROSAMOND	CA	93560-6259
HAROLD WEBER	2236 MERTON AVE		LOS ANGELES	CA	90041-1915
HARPER SHARON D	11246 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4219
HARRIET SMITH	8224 CALIFORNIA AVE		WHITTIER	CA	90602-2823
HARRY FONG	PO BOX 17933		SHREVEPORT	LA	71138-0933
HARRY FRANCE	PO BOX 761		ROSAMOND	CA	93560-0761
HARRY OSBORNE	PO BOX 233		BORON	CA	93596-0233
HARRY STIRES	1633 WABASSO WAY		GLENDALE	CA	91208-2440
HARRY WORKMAN	PO BOX 760		ROSAMOND	CA	93560-0760
HARTSHORN WILEY W / PRIVATE WIL MAR 1994	10455 W AVENUE B		LANCASTER	CA	93536-9419
HARVELL FAMILY TR	PO BOX 64		ROSAMOND	CA	93560-0064
HARVEY CASTILLO	19638 KILFINAN ST		PORTER RANCH	CA	91326-4050
HARVEY HUTCHINS	5401 W AVENUE A		ROSAMOND	CA	93560-6985
HATCH EVELYN / BLANKENSHIP EUGENE C	14636 BIG SKY DR		PEARBLOSSOM	CA	93553-3437
HATCHER TINA L	7005 E AVENUE G4		LANCASTER	CA	93535-7847
HAVEN GARY T / HAVEN MARY	40823 RIVEROCK LN		PALMDALE	CA	93551-1203
HAWKINS RONALD A / HAWKINS SHELLEY L	7878 W AVENUE G		LANCASTER	CA	93536-8621
HECTOR DURAN	3110 E GUASTI RD		ONTARIO	CA	91761-1219
HEE SHIN	4432 WOODLEIGH LN		LA CANADA	CA	91011-3541
HEIDE CASTRO	28029 PACIFIC ST		HIGHLAND	CA	92346-2762
HEIDI EDWARDS	PO BOX 3302		LANCASTER	CA	93586-0302
HEIDI EDWARDS	PO BOX 3302		LANCASTER	CA	93586-0302
HELEN DUFFY	PO BOX 900554		PALMDALE	CA	93590-0554
HELEN GONZALEZ	13745 HANWELL AVE		BELLFLOWER	CA	90706-2055
HELEN HEFLIN	5109 60TH ST W		ROSAMOND	CA	93560-6551
HELEN LYONS	36453 165TH ST E		LLANO	CA	93544-1133
HELEN NELSON WITT	24342 TAMARISK AVE		BORON	CA	93516-1350
HELEN NICHOLS	24147 TWENTY MULE TEAM RD	APT 801	BORON	CA	93516-1374
HELENE FENTON	3410 BROOKSHIRE RUN		CORINTH	TX	76210-4153
HELLEN MUGISA	PO BOX 40866		DOWNEY	CA	90239-1866
HELTON NATHAN J / HELTON STACEY M	11115 JUNIPER MESA RD		LITTLEROCK	CA	93543-3601
HENRY ALLYN	42130 22ND ST W		QUARTZ HILL	CA	93536-3311
HENRY CASH	23125 ERIEL AVE		TORRANCE	CA	90505-3155
HENRY ESPINO	3808 PARK VISTA CT		ROSAMOND	CA	93560-5912
HENRY KVEEN	1262 BRITTANY CROSS RD		SANTA ANA	CA	92705-3017
HENRY MORRIS	PO BOX 606		ROSAMOND	CA	93560-0606
HENRY ZIMMERMAN	3353 W AVENUE C		LANCASTER	CA	93536-9500
HERBERT BEELER	5204 W AVENUE L6		LANCASTER	CA	93536-4442
HERBERT LOPEZ	16130 SHARONHILL DR		WHITTIER	CA	90604-3557
HERBERT LYELL	PO BOX 161		HARTVILLE	MO	65667-0161
HERBERT WONG	555 W MIDDLEFIELD RD	APT H102	MOUNTAIN VIEW	CA	94043-3508
HERMAN CLARK	24209 CHAPARRAL AVE		BORON	CA	93516-1305
HERMELINDA GARCIA	728 W AVENUE H8		LANCASTER	CA	93534-1535
HERMINIANO MACHACON	3334 CASITAS AVE		LOS ANGELES	CA	90039-2208
HERNANDEZ RAFAEL / HERNANDEZ MARTINA	24013 E AVENUE P		PALMDALE	CA	93591-4207
HERRADOR FELIPE	702 STONEWOOD DR		LOS BANOS	CA	93635-9213
HERRERA FILIMON / HERRERA ANGELINA	15503 E AVENUE R		LITTLEROCK	CA	93543
HERRERA JOHNNY P	38240 6TH ST E		PALMDALE	CA	93550-4635
HERSEY	2359 100TH ST W		ROSAMOND	CA	93560-7011
HERZOG DANIEL R / HERZOG SHERRI K	44733 90TH ST E		LANCASTER	CA	93535-8410
HIEU TRAN	2520 GLEN IAN CT		SAN JOSE	CA	95148-4130
HIGGINS JERRY / HIGGINS FENELLA T	37129 THE GRVS		PALMDALE	CA	93551-6233
HIGH DESERT BROADCASTING CO	2284 S VICTORIA AVE		VENTURA	CA	93003-6641
HIGH DESERT INVESTMENTS LLC	1270 W 1130 S STE 145		OREM	UT	84058-3833
HIGH DESERT MARINE INC	905 MISSION CREEK DR		PALM DESERT	CA	92211-5910
HIGH VAULON	3545 PASEO DE FRANCISCO UNIT 230		OCEANSIDE	CA	92056-4174
HIIESALU ALAN J	28002 BUCHANNON RANCH RD		LLANO	CA	93544
HILDA DIFIORE	22714 KESWICK ST		CANOGA PARK	CA	91304-5431
HILDA TOBAR	150 ALLEGHENY CENTER MALL		PITTSBURGH	PA	15212-5335
HILDELIZA MENENDEZ	8403 STUDEBAKER DR		PASCO	WA	99301-6649
HILL JAMES M	8327 W AVENUE I		LANCASTER	CA	93536-8106
HILMA BRASFIELD	7327 GARDEN HWY		YUBA CITY	CA	95991-9419
HILMA ERAZO	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
HIN HEESEONG	4663 ROSEWOOD AVE APT 16		LOS ANGELES	CA	90004-6330

HIROSHI JONES	513 S LA BREA AVE		INGLEWOOD	CA	90301-2723
HISHAM GHAZOULI	3028 WHISPERWAVE CIR		REDWOOD CITY	CA	94065-8459
HOA TRAN	19351 HICKORY LN		HUNTINGTN BCH	CA	92646-2746
HOANG TAM	5421 PINE AVE		CHINO HILLS	CA	91709-6505
HOEPPNER KARL A / HOEPPNER DORIS E	47670 65TH ST E		LANCASTER	CA	93535-7858
HOFF R E ; S J LIVING TRUST	11111 MANZANITA MESA RD		LITTLEROCK	CA	93543-4230
HOLGERSON BILL	49195 265TH ST W		LANCASTER	CA	93536-9254
HOLLOWAY ROBERT D / HOLLOWAY DARLENE J	47661 50TH ST E		LANCASTER	CA	93535-7704
HOLLY DIXON	5595 CHARAN RD		ROSAMOND	CA	93560-6952
HOLY TRINITY AFRICAN METHODIST	EPUSCOPAL CHURCH	18512 E AVENUE Q	PALMDALE	CA	93591-4309
HOOYERINK HENRY J JR / HOOYERINK SUSAN A	45120 95TH ST W		LANCASTER	CA	93536-7710
HORNER	24222 SAGE AVE		BORON	CA	93516-1334
HORTENCIA CAPILLA	6542 GASKELL RD		ROSAMOND	CA	93560-7131
HOSSIE VAN HORM	24122 SAGE AVE		BORON	CA	93516-1332
HOUSEHOLD FIN CORP OF CA	931 CORPORATE CENTER DR		POMONA	CA	91768-2642
HOWARD HALLINAN	12764 AMBER CREEK CIR		VICTORVILLE	CA	92395-9070
HOWARD PATRICI L	14311 E AVENUE J		LANCASTER	CA	93535-7093
HOWARD UEDA	2060 ALIHILANI PL		HONOLULU	HI	96822-2002
HOWEY KERRY N	43049 FLAG ST		LANCASTER	CA	93536-4651
HOYOS FRANK A	47037 4TH ST W		LANCASTER	CA	93534-7500
HSBC BANK USA	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
HSBC MTG SVCS INC	931 CORPORATE CENTER DR		POMONA	CA	91768-2642
HSU YANG	2530 GREENFIELD AVE		ARCADIA	CA	91006-5229
HUDOCK MICHAEL	18711 W AVENUE E4		LANCASTER	CA	93536-9050
HUETTEN PAUL	49501 90TH ST W		LANCASTER	CA	93536-9408
HUGHES ARDEN P	44007 40TH ST E		LANCASTER	CA	93535-8107
HUGHES CHARLES; WINNIE M	HUGHES FAMILY	49001 100TH ST E	LANCASTER	CA	93535-7918
HUGHES LAWRENCE L	39408 185TH ST E		PALMDALE	CA	93591-4315
HUGHES MICHAEL C / HUGHES WANDA J	45340 95TH ST W		LANCASTER	CA	93536-8003
HUI KIM	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
HULL ALAN D / HULL WANDA	18839 W AVENUE B8		LANCASTER	CA	93536-9284
HUNT FAMILY TR	7915 DOGWOOD AVE		ROSAMOND	CA	93560-7240
HUNTER LIVING TRUST	9812 LA CANADA WAY		SUNLAND	CA	91040-1615
HURDLE CELIA / HURDLE LESLIE	27811 JUBILEE RUN RD		PEARBLOSSOM	CA	93553-3438
HUSTON DOUGLAS C / HUSTON PAMELA L	23004 LANCASTER RD		LANCASTER	CA	93536-9023
HUTH-TANNER MILLER	3500 75TH ST W		ROSAMOND	CA	93560-7179
HUYNH VINH	0 PLANTAIN LN		PALMDALE	CA	93551
HWAL CHUNG	26075 BATES PL		STEVENSON RANCH	CA	91381-1119
HYO OH	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
HYON WU	24600 GARDENSTONE LN		WEST HILLS	CA	91307-3808
HYPERION FUND	PO BOX 8412		CALABASAS	CA	91372-8412
HYUN ROE	408 S 289TH ST		FEDERAL WAY	WA	98003-3609
HYUNG KANG	912 CRENSHAW BLVD		LOS ANGELES	CA	90019-1937
I B PROPERTY HOLDINGS LLC	4425 PONCE DE LEON BLVD FL 5		CORAL GABLES	FL	33146-1837
IDA SHERMAN	1170 LA JOLLA DR		THOUSAND OAKS	CA	91362-2221
IDAN CASTIEL	4828 LOOP CENTRAL DR		HOUSTON	TX	77081-2212
IDMM	22132 CRESTLINE TRL		SANTA CLARITA	CA	91390-5297
IGMIDIO ESTEBAN	9407 BURNET AVE		NORTH HILLS	CA	91343-2306
IGNACIO CERVANTES	2106 MADISON FLS		SAN ANTONIO	TX	78245-2236
ILBOK KIM	26054 E AVENUE U12		LLANO	CA	93544-1583
ILIE TARAU	PO BOX 2964		CORONA	CA	92878-2964
ILONKA RUIZ	335 CAGEL ST		ROSAMOND	CA	93560-6955
IMELDA CASTILLO	8918 GAYNOR AVE		NORTH HILLS	CA	91343-3013
IMELDA TRINIDAD	40928 GRANITE ST		PALMDALE	CA	93551-1809
INA KALINA	27230 JEROME ST		BORON	CA	93516-1717
INDYMAC BANK	PO BOX 7069		PASADENA	CA	91109-7069
INDYMAC BK FSB	6900 BEATRICE DR		KALAMAZOO	MI	49009-9559
INES MARIA	5642 GOBI AVE		ROSAMOND	CA	93560-6971
INGEBORG BRIGGS	2538 LOWELL CT		SIMI VALLEY	CA	93065-5800
INGRID VANDERHOPE	14760 BIG SKY DR		PEARBLOSSOM	CA	93553-3436
INMYUNG LEE	435 S CURSON AVE	APT 10J	LOS ANGELES	CA	90036-5239
INTERNATIONAL CHURCH OF THE	1910 W SUNSET BLVD STE 200		LOS ANGELES	CA	90026-3295
INTERSTATE INDSTL HOLDINGS INC	27424 HOMYR PL		CANYON COUNTRY	CA	91351-3709
IONA KING	6219 WILLOW AVE		ROSAMOND	CA	93560-7234
IRA SERVICES CSTDN	18180 SAGE CT		SARATOGA	CA	95070-4500
IRENE DELGADO	445 W PALMDALE BLVD STE L		PALMDALE	CA	93551-4509
IRENE NELSON	1213 1ST ST # 182		CORONADO	CA	92118-1414
IRIS GOMEZ	19903 VANOWEN ST		WINNETKA	CA	91306-3931
IRIT SHAMAM	20819 EXHIBIT CT		WOODLAND HILLS	CA	91367-5206
IRMA CARLE	30701 LONGVIEW RD		PEARBLOSSOM	CA	93553-3476
IRMA HUERTA	554 W LANCASTER BLVD		LANCASTER	CA	93534-2534
IRMA QUINTERO	8401 GRAPE ST		LOS ANGELES	CA	90001-4131
IRMA SHAW	7202 DAWN RD		ROSAMOND	CA	93560-6458
IRUKE UDENZE	9100 S 5TH AVE		INGLEWOOD	CA	90305-2713
ISABEL SANCHEZ	3381 168TH ST W		ROSAMOND	CA	93560-6949
ISABEL SOSA	9016 CEDAR ST		BELLFLOWER	CA	90706-6402
ISABELLA UTVICH	PO BOX 367		ROSAMOND	CA	93560-0367
ISIDORA GONZALEZ	1324 W AVENUE L12		LANCASTER	CA	93534-6927
ISIDRO ACOSTA	7969 STANSBURY AVE		PANORAMA CITY	CA	91402-5216
ISNA SIDDIQUI	4313 MANORVIEW CT		MOORPARK	CA	93021-2791
ISRAEL GONZALEZ	24979 CONSTITUTION AVE	APT 635	VALENCIA	CA	91381-1740
ISRAEL HERNANDEZ	8201 ZELZAH AVE		RESEDA	CA	91335-1553
IVA RUSSELL	3427 W 83RD ST		INGLEWOOD	CA	90305-1606
IVAN HANSTAD	269 CAGEL ST		ROSAMOND	CA	93560-6905
IVAN KNEZEVIC	624 W 17TH ST		SAN PEDRO	CA	90731-4717
IZAGUIRRE CATHERINE W TRUST	25614 MELVILLE CT		STEVENSON RANCH	CA	91381-1463
J G REAL ESTATE INVESTMENTS LLC	17743 WREN DR		CANYON COUNTRY	CA	91387-3827

J GARCIA	14943 WEST AVENUE A		ROSAMOND	CA	93560
J HOPPER	42907 YEW ST		LANCASTER	CA	93536-4866
JACALYN WERNER	230 S ROSE ST		ANAHEIM	CA	92805-4137
JACINTO DE HARO	734 E IMPERIAL HWY		LOS ANGELES	CA	90059-2327
JACK ALLUIS	5265 61ST ST W		ROSAMOND	CA	93560-6479
JACK BAYZE	15200 E AVENUE R		PALMDALE	CA	93591-2935
JACK BRIAN	PO BOX 355		LLANO	CA	93544-0355
JACK ENGLISH	PO BOX 114		BORON	CA	93596-0114
JACK FORBES	228 55TH ST W		ROSAMOND	CA	93560-6525
JACK HILL	5656 ELIZABETH LAKE RD		LEONA VALLEY	CA	93551-7504
JACK JENEWEIN	5648 GOTHAM ST		BELL GARDENS	CA	90201-5413
JACK LEMKE	34385 ROAD 168		VISALIA	CA	93292-9187
JACK MILBURN	PO BOX 810		LITTLEROCK	CA	93543-0810
JACK SCHWEIZER	22711 W AVENUE D13		LANCASTER	CA	93536-9109
JACK TRAVIS	5284 64TH ST W		ROSAMOND	CA	93560-6261
JACK WHITMER	44611 70TH ST E		LANCASTER	CA	93535-8313
JACKIE HINKLE	2193 100TH ST W		ROSAMOND	CA	93560-7012
JACKSON LARRY W / JACKSON CAROLYN D	48737 120TH ST E		LANCASTER	CA	93535-8014
JACKSON STEWART	99 WYOMING ST		BOULDER CITY	NV	89005-2803
JACKSON WAY	24274 JUNIPER AVE		BORON	CA	93516-1329
JACOBO HERIBERTO / VALENCIA GRISELDA	3753 E AVENUE I	SPC 157	LANCASTER	CA	93535-2408
JAIME ALARCON	5857 WILLOW AVE		ROSAMOND	CA	93560-7262
JAIME DELROSARIO	8818 RESEDA BLVD		NORTHRIDGE	CA	91324-4039
JAIME MICHEL	1661 WORTHINGTON RD		WEST PALM BEACH	FL	33409-6488
JAIME QUIROZ	PO BOX 172		PEARBLOSSOM	CA	93553-0172
JAIME TYCANGCO	609 BALBOA ST		WEST COVINA	CA	91791-2653
JAKOBSEN JORGEN D / JAKOBSEN ELIA G	49019 120TH ST E		LANCASTER	CA	93535-8012
JAKOBSEN JORGEN D / JAKOBSEN ELLA G	11337 E AVENUE E		LANCASTER	CA	93535-8005
JALLO DAVID G	28536 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3423
JAMALASFARJANINEJAD LISSETTE	44040 42ND ST W		LANCASTER	CA	93536-5869
JAMES ARMBRUSTER	PO BOX 884		ROSAMOND	CA	93560-0884
JAMES ATCHISON	2020 60TH ST W		ROSAMOND	CA	93560-6561
JAMES BARNES	45460 070 ST W		LANCASTER	CA	93536
JAMES BENDER	6018 FIRMAMENT AVE		ROSAMOND	CA	93560-6548
JAMES BRADFORD	1111 BEECHDALE DR UNIT A		PALMDALE	CA	93551-3822
JAMES BURDETTE	13677 W AVENUE A		ROSAMOND	CA	93560-7270
JAMES CALKINS	9645 BUCKHORN AVE		ROSAMOND	CA	93560-7529
JAMES CARMELO A / JAMES MARY C	4550 CINNABAR AVE		PALMDALE	CA	93551-1854
JAMES CLEMENTS	24181 TAMARISK AVE		BORON	CA	93516-1345
JAMES COLOVIN	PO BOX 2486		LANCASTER	CA	93539
JAMES DAVIS	71 MONTWOOD WAY		OAKLAND	CA	94605-5419
JAMES DAWSON	22123 STATE HIGHWAY 58		HINKLEY	CA	92347-9511
JAMES DECKERT	PO BOX 1261		ROSAMOND	CA	93560-1261
JAMES DUNN	PO BOX 3491		QUARTZ HILL	CA	93586-3491
JAMES DYKE	5920 GEORGE AVE		ROSAMOND	CA	93560-6909
JAMES DYKE	5920 GEORGE AVE		ROSAMOND	CA	93560-6909
JAMES EDWARDS	PO BOX 3302		LANCASTER	CA	93586-0302
JAMES EDWARDS	PO BOX 3302		LANCASTER	CA	93586-0302
JAMES HAMPTON	PO BOX 5958		LANCASTER	CA	93539-5958
JAMES HANTSKE	7683 CIRCULO SEQUOIA		CARLSBAD	CA	92009-8472
JAMES HART	1682 60TH ST W		ROSAMOND	CA	93560-6957
JAMES HOLZER	5570 W ROSAMOND BLVD		ROSAMOND	CA	93560-6559
JAMES HSU	505 MARIGOLD AVE		CORONA DEL MAR	CA	92625-2408
JAMES JO ANN	6725 W AVENUE H12		LANCASTER	CA	93536-8325
JAMES KENDALL / BRADFORD ROSALYN	2330 CARMELIA ST		PALMDALE	CA	93550
JAMES KENYON	12346 SIERRA VIEW ST		BORON	CA	93516-1342
JAMES KYLE	12345 E AVENUE J		LANCASTER	CA	93535-8704
JAMES MARCIANO	2696 SASHA CT		SIMI VALLEY	CA	93063-2245
JAMES MAUPIN	PO BOX 900007		PALMDALE	CA	93590-0007
JAMES MORLET	601 5TH AVE		SCOTTSBLUFF	NE	69361-3581
JAMES PIERCE	PO BOX 399		SOMIS	CA	93066-0399
JAMES PLETCHER	18100 CASTLE BUTTE RD		EDWARDS	CA	93523-3200
JAMES REUTER	7362 W AVENUE G		LANCASTER	CA	93536-8618
JAMES RICHEY	24358 TAMARISK AVE		BORON	CA	93516-1350
JAMES SEALE	37746 SMOKE TREE ST		PALMDALE	CA	93552-3835
JAMES TENINTY	PO BOX 24		LANCASTER	CA	93584-0024
JAMES TRIBUZI	323 N REESE PL		BURBANK	CA	91506-2141
JAMES VERNETTI	5021 W AVENUE L14 APT 1		QUARTZ HILL	CA	93536-3688
JAMES VICKREY	83 127TH ST W		ROSAMOND	CA	93560-8201
JAMES WELLING	PO BOX 89		BORON	CA	93596-0089
JAMES WILKINS	15145 BEARTREE ST		FONTANA	CA	92336-4404
JAMI WIGGS	16915 FOOTHILL AVE		EDWARDS	CA	93523-3532
JAMIE BRECKENRIDGE	24157 CHAPARRAL AVE		BORON	CA	93516-1303
JAMIE DEWAR	12249 SIERRA VIEW ST		BORON	CA	93516-1339
JAMIE MILLER	3500 75TH ST W		ROSAMOND	CA	93560-7179
JANE ANGELILLO	1935 HILL DR		LOS ANGELES	CA	90041-1240
JANE DUVALL	100 DAVID RANCH RD		THEODOSIA	MO	65761-6351
JANE KEEVER	710 E OLDFIELD ST		LANCASTER	CA	93535-3244
JANE SHU	2780 LAKE VISTA DR		LEWISVILLE	TX	75067-3884
JANE WILLIAMS	3812 50TH ST W		ROSAMOND	CA	93560-6489
JANE WILLIAMS	PO BOX 1442		ROSAMOND	CA	93560-1442
JANE WONG	2506 SPRECKELS LN		REDONDO BEACH	CA	90278-5337
JANE ZEOK	2774 65TH ST W		ROSAMOND	CA	93560-6926
JANET ANDERSON	386 EL ENCANTO DR		PASADENA	CA	91107-5308
JANET ELIOPULOS	42225 N ST WEST # 101		LANCASTER	CA	93534
JANET GARDNER	4600 REGENT BLVD STE 200		IRVING	TX	75063-2478
JANET LOGAN	PO BOX 60		ROSAMOND	CA	93560-0060

JANET LYMAN	PO BOX 14526	LONG BEACH	CA	90853-4526
JANET MASON	7845 ELDER AVE	ROSAMOND	CA	93560
JANET MC DONALD	2316 67TH ST W	ROSAMOND	CA	93560-7230
JANET PERRY	9642 E AVENUE S14	LITTLEROCK	CA	93543-2309
JANET SEBELLITA	PO BOX 247	ROSAMOND	CA	93560-0247
JANET SHIPLEY	PO BOX 634	PEARBLOSSOM	CA	93553-0634
JANET SULEK	455 W AVENUE G	LANCASTER	CA	93534-7607
JANICE HARMON	194 MITEY MITE LN	RICHMOND	CA	94803-2536
JANICE LANE	207 127TH ST W	ROSAMOND	CA	93560-8202
JANICE PIERCE	PO BOX 399	SOMIS	CA	93066-0399
JANICE SEWELL	12401 SIERRA VIEW ST	BORON	CA	93516-1344
JANICE SYLVIES	4546 W AVENUE M14	QUARTZ HILL	CA	93536-2432
JANICE TAPIA	1101 71ST ST W	ROSAMOND	CA	93560-7032
JANICE TIERNEY	24315 SAGE AVE	BORON	CA	93516-1335
JANIS GREENLEE	PO BOX 2345	NEVADA CITY	CA	95959-1946
JANNA PETERSON	2222 SAN MARINO DR	BAKERSFIELD	CA	93309-4928
JAON PALUMBO	5526 CORDIVA CT	LANCASTER	CA	93536-4456
JASON BOYETT	24274 SAGE AVE	BORON	CA	93516-1334
JASON BROWNLEE	14677 VIA BETTONA # 110 844	SAN DIEGO	CA	92127-4809
JASON CHO	11450 WISTFUL VISTA WAY	NORTHRIDGE	CA	91326-4183
JASON FEALY	24451 JOSHUA AVE	BORON	CA	93516-1326
JASON MANNING	24451 TAMARISK AVE	BORON	CA	93516-1351
JASON POPE	25022 CORIANDER CT	STEVENSON RNH	CA	91381-2215
JASON WONG	4772 PROSPECT AVE	YORBA LINDA	CA	92886-2124
JASWINDER DHINSA	3053 RANCHO VISTA BLVD # 101	PALMDALE	CA	93551-4823
JAUNCIE WHITFIELD	29112 S HIGHMORE AVE	RCH PALOS VRD	CA	90275-2024
JAVIER MACHUCA	PO BOX 500067	PALMDALE	CA	93550-0067
JAVIER RIVAS	PO BOX 1740	TEMPLE CITY	CA	91780-7740
JAY ESHBACH	PO BOX 749	TEHACHAPI	CA	93581-0749
JAY FALVO	PO BOX 548	ROSAMOND	CA	93560-0548
JAY RIGGS	6109 EL DORADO AVE	ROSAMOND	CA	93560-6457
JAY SILMAN	PO BOX 324	ROSAMOND	CA	93560-0324
JAY SOLOMAN	PO BOX 901556	PALMDALE	CA	93590-1556
JAY SOLOMON	PO BOX 3327	QUARTZ HILL	CA	93586-0327
JAYAMOL PACHI	10118 HANNA AVE	CHATSWORTH	CA	91311-2815
JEAN HARRIS	PO BOX 2117	ROSAMOND	CA	93560-2117
JEAN HOOK	35020 SMALL RD	PALMDALE	CA	93550-9736
JEAN LESTER	446 SAN VICENTE BLVD UNIT 201	SANTA MONICA	CA	90402-1712
JEAN TAYLOR	5132 BRYNHURST AVE	LOS ANGELES	CA	90043-1804
JEANETTE HOLLIS	3333 80TH ST W	ROSAMOND	CA	93560-7388
JEANETTE ZACK	PO BOX 453	LAKE HUGHES	CA	93532-0453
JEANNE FORDICE	PO BOX 8	VALYERMO	CA	93563-0008
JEANNE GREGORY	3653 W AVENUE B	ROSAMOND	CA	93560
JEANNE SCHMITZ	PO BOX 1877	ROSAMOND	CA	93560-1877
JEFFERIES DAVID K	18159 W AVENUE E4	LANCASTER	CA	93536
JEFFERY GODDE	13104 BUCKHORN AVE	ROSAMOND	CA	93560-7014
JEFFERY MORRIS	47930 26TH ST E	LANCASTER	CA	93535-7605
JEFFERY SNYDER	33950 223RD ST E	LLANO	CA	93544-1516
JEFFREY ABATTIHARLOW	PO BOX 6163	LANCASTER	CA	93539-6163
JEFFREY COX	12246 SIERRA VIEW ST	BORON	CA	93516-1340
JEFFREY KIMBLOWSKI	7720 HOLIDAY AVE	ROSAMOND	CA	93560
JEFFREY KING	6209 GOBI AVE	ROSAMOND	CA	93560-7133
JEFFREY MARTINEAU	1460 100TH ST W	ROSAMOND	CA	93560-7089
JEFFREY SKINNER	PO BOX 665	LITTLEROCK	CA	93543-0665
JEFFREY THOMPSON	1100 VIRGINIA DR	FORT WASHINGTON	PA	19034-3204
JEFFREY WILLIAMS	PO BOX 760	ROSAMOND	CA	93560-0760
JEFFREY WILLIAMS	14101 IRONE AVE	ROSAMOND	CA	93560-7185
JENNIFER BECKWITH	1001 SEMMES AVE	RICHMOND	VA	23224-2245
JENNIFER DUKE	7010 W AVENUE E4	LANCASTER	CA	93536-8821
JENNIFER JAMES	40438 FIELDCREST LN	PALMDALE	CA	93551-2661
JENNIFER JOHNSON	12742 OSBORNE ST	BORON	CA	93516-1843
JENNIFER KINNGOTT	PO BOX 2538	ROSAMOND	CA	93560-2538
JENNIFER MAYS	3609 TIMOTHY PL	ANTIOCH	CA	94509-5478
JENNIFER PALUMBO	5526 CORDIVA CT	LANCASTER	CA	93536-4456
JENNIFER VALASQUEZ	762 70TH ST W	ROSAMOND	CA	93560-7034
JENNY KIM	431 S HARVARD BLVD APT 303	LOS ANGELES	CA	90020-6300
JENS IPSEN	22647 VENTURA BLVD	WOODLAND HILLS	CA	91364-1416
JEON DEK H / JEON SOON K	10645 E AVENUE W3	LITTLEROCK	CA	93543-3733
JEONG SWARTZWELDER	2662 WALLACE ST	SANTA CLARA	CA	95051-3826
JERALD HOLLIS	3333 80TH ST W	ROSAMOND	CA	93560-7388
JERALDINE HERBERT	24400 JOSHUA AVE	BORON	CA	93516-1327
JEREMEH JOB	24180 CHAPARRAL AVE	BORON	CA	93516-1304
JEREMIAH HILL	25824 CHERRYHILL DR	BORON	CA	93516-1203
JEREMY CABLE	20301 CLUBVIEW CT	TEHACHAPI	CA	93561-8222
JERMAINE DAVIS	44484 LOTUS LN	LANCASTER	CA	93536
JEROLD REEVES	6226 EAGLE CT	LANCASTER	CA	93536-4533
JEROME JACKSON	21836 WATER ST	CARSON	CA	90745-2501
JEROMY MANGUS	5465 62ND ST W	ROSAMOND	CA	93560-6254
JERROLD GIBSON	43061 FLAG ST	LANCASTER	CA	93536-4651
JERROLD RUBY	685 LAUREL ST	ROSAMOND	CA	93560-6981
JERRY BUCHER	PO BOX 2083	ROSAMOND	CA	93560-2083
JERRY BURNS	3631 W AVENUE B	ROSAMOND	CA	93560-7102
JERRY DUVALL	100 DAVID RANCH RD	THEODOSIA	MO	65761-6351
JERRY GALLEGOS	27096 JEROME ST	BORON	CA	93516-1632
JERRY STUKAS	5585 TOPAZ ST	LAS VEGAS	NV	89120-3316
JERRY UPDEGRAFT	2020 CARSON MESA RD	PALMDALE	CA	93550-9718
JESS KNUTSON	29853 LANCASTER RD	LANCASTER	CA	93536-9029

JESS REEDER	26855 ANDERSON ST	BORON	CA	93516-1507
JESSE CARLOS	38704 206TH ST E	PALMDALE	CA	93591-4522
JESSIE DEATON	4307 E LANE BLVD	LANCASTER	CA	93535
JESSIE DOREN	PO BOX 296	DORRIS	CA	96023-0296
JESSIE JIM	2194 E CYPRESS ST BLDG 2194	COVINA	CA	91724-2352
JESSIE LOUIE	PO BOX 3414	LANCASTER	CA	93586-3414
JESUS ALVAREZ	6164 FIRMAMENT AVE	ROSAMOND	CA	93560-6260
JESUS BATRES	2727 W ALAMEDA AVE	BURBANK	CA	91505-4404
JESUS CANYON RANCH LLC	1900 MAIN ST STE 125	IRVINE	CA	92614-7323
JESUS CARRASCO	5836 HIDDEN TRAIL RD	ROSAMOND	CA	93560-6917
JESUS ELIZALDE	26042 E AVENUE U8	LLANO	CA	93544-1584
JESUS GARCES	19426 LORNE ST	RESEDA	CA	91335-1021
JESUS GARCIA	20618 COHASSET ST	CANOGA PARK	CA	91306-2807
JESUS GARCIA	20618 COHASSET ST	CANOGA PARK	CA	91306-2807
JESUS GONZALEZ	1245 BROAD AVE	WILMINGTON	CA	90744-2619
JESUS HERRERA	5854 GASKELL RD	ROSAMOND	CA	93560-7094
JESUS MARCADO	137 S ALEXANDRIA AVE APT 2	LOS ANGELES	CA	90004-5458
JESUS NUNGARAY	3212 FERN AVE	PALMDALE	CA	93550-7912
JESUS VALDEZ	1305 E PALMDALE BLVD STE 1	PALMDALE	CA	93550-4853
JESUS VENEGAS	13330 CORCORAN ST	SAN FERNANDO	CA	91340-2206
JEWEL DAY	PO BOX 791	ROSAMOND	CA	93560-0791
JI PARK	27628 BEECHWOOD DR	SANTA CLARITA	CA	91351-3466
JILL ATCHISON	2020 60TH ST W	ROSAMOND	CA	93560-6561
JILL BONZELL	PO BOX 1654	ROSAMOND	CA	93560-1654
JILL FESSENDEN	PO BOX 285	PEARBLOSSOM	CA	93553-0285
JILL KIMBLE	43255 21ST ST W	LANCASTER	CA	93536-5240
JIM BASHOR	1330 INSPIRATION DR	LA JOLLA	CA	92037-6810
JIM WILLIFORD	PO BOX 19	ROSAMOND	CA	93560-0019
JIMMIE KNOX	1316 CORONADO DR	BOULDER CITY	NV	89005-2206
JIMMY JONES	PO BOX 62	ROSAMOND	CA	93560-0062
JIMMY LIBOON	2122 N FLOWER ST	SANTA ANA	CA	92706-2526
JIMMY RUSSELL	PO BOX 1759	ROSAMOND	CA	93560-1759
JIN YOO	21270 E AVENUE O	PALMDALE	CA	93591-4101
JINWON KIM	28648 DEER SPRINGS DR	SANTA CLARITA	CA	91390-5741
JJH 26 PALMDALE LLC ET AL	620 E 8TH ST	LOS ANGELES	CA	90014-2402
JO ELLEN ALEXANDER	PO BOX 2000	ROSAMOND	CA	93560-2000
JO TOUCHSTONE	3105 85TH ST W	ROSAMOND	CA	93560-6961
JOAN HIGLEY	818 SUMMERHILL CT	ENCINITAS	CA	92024-5450
JOAN SCHRAMM	5359 E AVENUE I	LANCASTER	CA	93535-8225
JOAN SMITH	2320 HUMBOLDT ST	LOS OSOS	CA	93402-3502
JOANNA BAILEY	10937 EL DORADO AVE	ROSAMOND	CA	93560-7293
JOAQUIN ALATORRE	10911 BERRY AVE	ANAHEIM	CA	92804-6311
JOAQUIN BORJA	29204 LAS BRISAS RD	SANTA CLARITA	CA	91354-1541
JOBY PACHI	10118 HANNA AVE	CHATSWORTH	CA	91311-2815
JODINE MULDER	11878 JUNIPER HILLS RD	LITTLEROCK	CA	93543-4207
JOE GARCIA	39012 VANANBEV WAY	PALMDALE	CA	93551-3926
JOE GILBERT	6851 W AVENUE I	LANCASTER	CA	93536-8319
JOE LARA	13547 VENTURA BLVD # 437	SHERMAN OAKS	CA	91423-3825
JOE PAULEY	5356 62ND ST W	ROSAMOND	CA	93560
JOE URENA	14105 WEIDNER ST	ARLETA	CA	91331-4459
JOEL MEDINA	PO BOX 337	LANCASTER	CA	93584-0337
JOHN A ALEXANDER TRUST	PO BOX 288	CAYUCOS	CA	93430-0288
JOHN ALESSO	PO BOX 1839	LANCASTER	CA	93539
JOHN ARREOLA	1580 MIRA VALLE ST	MONTEREY PARK	CA	91754-5324
JOHN ATKINSON	20339 RUSTON RD	WOODLAND HILLS	CA	91364-5644
JOHN BARILE	2260 N GOWER ST	HOLLYWOOD	CA	90068-2953
JOHN BARNEY	PO BOX 1706	SCOTTSBLUFF	NE	69363-1706
JOHN BELL	24187 JOSHUA AVE	BORON	CA	93516
JOHN BOYD	1401 60TH ST W	ROSAMOND	CA	93560-6523
JOHN BRUNO	453 N LAZARD ST	SAN FERNANDO	CA	91340-1922
JOHN BUDRECKI	264 STEDMAN PL	MONROVIA	CA	91016-2167
JOHN BUSS	2839 EL CAMINITO	LA CRESCENTA	CA	91214-2004
JOHN CALANDRI	6135 W AVENUE N STE M8	PALMDALE	CA	93551
JOHN CASTAGNETTO	1100 VIRGINIA DR	FORT WASHINGTON	PA	19034-3204
JOHN CLOSSON	645 TABOR LN	SANTA BARBARA	CA	93108-1536
JOHN CRIM	8756 SVL BOX	VICTORVILLE	CA	92395-5179
JOHN DEBS	PO BOX 2500	LANCASTER	CA	93539-2500
JOHN DRUMMOND	39201 COPRICE ST	PALMDALE	CA	93551-4479
JOHN ELIOPULOS	42225 104 ST W STE 101	LANCASTER	CA	93534
JOHN ELLENDER	PO BOX 7663	RIVERSIDE	CA	92513-7663
JOHN FARLEY	PO BOX 247	PEARBLOSSOM	CA	93553-0247
JOHN FAUGHT	9416 OLEMA ST	TEMPLE CITY	CA	91780-1341
JOHN FETTERS	10790 RANCHO BERNARDO RD	SAN DIEGO	CA	92127-5705
JOHN FRANCO	2181 OAK ST	ROSAMOND	CA	93560-6073
JOHN GARFIELD	PO BOX 310	LITTLEROCK	CA	93543-0310
JOHN GRAHAM	20001 BIG PINES HWY	VALYERMO	CA	93563-1002
JOHN HARRELL	6560 SHANNON RD	RIVERSIDE	CA	92504-1427
JOHN HEINATZ	6329 105TH ST W	ROSAMOND	CA	93560-6933
JOHN HOLZER	361 COUNTY ROAD 279	NIOTA	TN	37826-2303
JOHN HOUGHTON	5822 SUE AVE	ROSAMOND	CA	93560-6969
JOHN HOWARD	5722 DAISY LN	PHELAN	CA	92371-7061
JOHN HUGHES	41424 27TH ST W	PALMDALE	CA	93551-1354
JOHN JEFFERSON	29240 E 126TH ST	PEARBLOSSOM	CA	93553
JOHN KARLIS	797 BOXTHORN AVE	NEWBURY PARK	CA	91320-5331
JOHN KIMBROUGH	4635 SWEETSER RD	ROSAMOND	CA	93560-6454
JOHN KLING	18418 SANTA ISADORA ST	FOUNTAIN VLY	CA	92708-5525
JOHN KRIZAUSKAS	12443 SIERRA VIEW ST	BORON	CA	93516-1344

JOHN LING	5631 TUFTS ST		DAVIS	CA	95618-7216
JOHN LYONS	36453 165TH ST E		LLANO	CA	93544-1133
JOHN MCDONALD	20451 E AVENUE R		PALMDALE	CA	93591-4517
JOHN MCGOWAN	1139 N REEDER AVE		COVINA	CA	91724-1621
JOHN MILLER	PO BOX 701		ROSAMOND	CA	93560-0701
JOHN PERSONS	30931 96TH ST E		LITTLEROCK	CA	93543-3632
JOHN POSTHUMA	1995 E VILLA ST		PASADENA	CA	91107-2335
JOHN RANKIN	7226 DAWN RD		ROSAMOND	CA	93560-6458
JOHN RECA	9364 W AVENUE G		LANCASTER	CA	93536-8623
JOHN RICHARDSON	PO BOX 34		GORMAN	CA	93243-0034
JOHN ROBERTS	11216 JUNIPER MESA RD		LITTLEROCK	CA	93543-3603
JOHN ROBINSON	22339 E AVENUE O		PALMDALE	CA	93591-4203
JOHN SARLI	29543 121ST ST E		LITTLEROCK	CA	93543-4260
JOHN SMITH	PO BOX 2102		SEBASTOPOL	CA	95473-2102
JOHN STOLLAR	7527 W AVENUE L11		LANCASTER	CA	93536-7387
JOHN SULLIVAN	2130 25TH ST		COOS BAY	OR	97420-3570
JOHN TILLIS	PO BOX 882		LITTLEROCK	CA	93543-0882
JOHN TINTOCALIS	5620 MAGDA CT		PALMDALE	CA	93552-6304
JOHN TUCKER	4211 EAST AVENUE I		LANCASTER	CA	93535
JOHN VARTANIAN	2978 DIAMOND ST		ROSAMOND	CA	93560-6001
JOHN VARTANIAN	620 N 19TH ST		MONTEBELLO	CA	90640-3133
JOHN VERGONA	6716 HILLPARK DR APT 505		LOS ANGELES	CA	90068-2120
JOHN WAHLQUIST	1801 PATTERSON RD		ROSAMOND	CA	93560-7038
JOHN WARFIELD	39797 AVENIDA MIGUEL OESTE		MURRIETA	CA	92563-5294
JOHN WEST	48406 90TH ST E		LANCASTER	CA	93535-7909
JOHN WILLIAMS	2918 65TH ST W		ROSAMOND	CA	93560
JOHN WOODS	46047 20TH ST E		LANCASTER	CA	93535-6002
JOHN WYATT	7834 DINKEY AVE		ROSAMOND	CA	93560-7053
JOHN WYLY	12162 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3493
JOHNIE ARGO	10810 4 WINDS RD		JUNIPER HILLS	CA	93543-3644
JOHNNIE BOWER	21409 ADAM DR		TEHACHAPI	CA	93561-8817
JOHNNY GIBSON	PO BOX 81		PALO VERDE	CA	92266-0081
JOHNNY LAMBERRT	28105 ROBIN AVE		SAUGUS	CA	91350-2049
JOHNNY MENESES	PO BOX 1263		ROSAMOND	CA	93560-1263
JOHNNY ZAMRZLA	48910 80TH ST W		LANCASTER	CA	93536-8740
JOHNSON CALVIN I	14561 E AVE N		LANCASTER	CA	93535
JOHNSON DONALD A / JOHNSON SANDRA L	40819 GRANITE ST		PALMDALE	CA	93551-1806
JOHNSON DONALD R / JOHNSON AGUEDA	9148 W AVENUE G		LANCASTER	CA	93536-8622
JOHNSON GEORGE R / JOHNSON DONNA L	40824 RIVEROCK LN		PALMDALE	CA	93551-1203
JOHNSON MARK A / JOHNSON CATHIE A	46840 75TH ST W		LANCASTER	CA	93536-8625
JOHNSON PHILLIP E / JOHNSON MARTHA D	46400 50TH ST E		LANCASTER	CA	93535-7701
JON OLIVER	1131 FOOTHILL ST		S PASADENA	CA	91030-1719
JON RAYMOND	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
JON TRAN	624 S LASSEN CT		ANAHEIM	CA	92804-3123
JONATHAN HOFFMAN	1807 LATIGO CANYON RD		MALIBU	CA	90265-2751
JONATHAN MANDELL	13903 SYLVAN ST		VAN NUYS	CA	91401-2219
JONATHAN MORAN	40297 VICKER WAY		PALMDALE	CA	93551
JONES ALFRED L	38710 180TH ST E		PALMDALE	CA	93591-3705
JONES DOROTHY F / JONES ROBERT ; DOROTHY	6753 E AVENUE F		LANCASTER	CA	93535-7821
JONG LEECHUNG	1036 S SERRANO AVE # 201		LOS ANGELES	CA	90006-2410
JONI GREENE	4444 E AVENUE R SPC 14		PALMDALE	CA	93552-6705
JORDAN HEATH / JORDAN JENNIFER	18021 W AVENUE E4		LANCASTER	CA	93536-9008
JORDAN TRUST	C/O JORDAN PAVEL	11545 JEFF AVENUE	LAKE VIEW TERRANCE	CA	91342-6828
JORGE MONTANO	5872 HIDDEN TRAIL RD		ROSAMOND	CA	93560-6917
JORGE MUNOZ	9755 BUCKHORN AVE		ROSAMOND	CA	93560-7299
JOSAFAT PENALOZA	30603 248TH ST E		LLANO	CA	93544-1587
JOSE AREVALO	7294 BACKUS RD		MOJAVE	CA	93501-7161
JOSE AYALA	12650 INGENUITY DR		ORLANDO	FL	32826-2703
JOSE CHEVEZ	9871 SAHARA AVE		ROSAMOND	CA	93560-7066
JOSE DE ESTELA AYON	24335 CHAPARRAL AVE		BORON	CA	93516-1307
JOSE IBARRA	5954 MARGARITHA LN		ROSAMOND	CA	93560-6916
JOSE MARTINEZ	9748 COZYCROFT AVE STE J		CHATSWORTH	CA	91311-4400
JOSE MARTINEZ	622 CAPISTRANO DR		OCEANSIDE	CA	92058-1104
JOSE MORENO	48841 E 12TH ST		LANCASTER	CA	93535
JOSE PACHECO	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
JOSE PADRE	2503 BEVERLY BLVD STE 2		LOS ANGELES	CA	90057-1024
JOSE REYNOSO	4010 E AVENUE I		LANCASTER	CA	93535-8221
JOSE SILVA	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
JOSE SORIANO	1995 DEL CIERVO PL		CAMARILLO	CA	93012-4067
JOSE TORRES	3541 E AVENUE H		LANCASTER	CA	93535-1620
JOSEFA CUDAL	26910 SIERRA HWY		NEWHALL	CA	91321-2262
JOSEFINA ESCOBAR	PO BOX 41		LEBEC	CA	93243-0041
JOSELITO AGUIRRE	6551 RHODES AVE		N HOLLYWOOD	CA	91606-2315
JOSEPH AGUILAR	STAR RT 1 BOX 179		ROSAMOND	CA	93560
JOSEPH BLACK	PO BOX 1088		ROSAMOND	CA	93560-1088
JOSEPH COOPER	23821 COYOTE CT		TEHACHAPI	CA	93561-9213
JOSEPH FOX	263 SHOSHONE CT		SAN JOSE	CA	95127-1855
JOSEPH GOMES	1163 N ALEXANDRIA AVE		LOS ANGELES	CA	90029-1407
JOSEPH GRIFFITH	2957 HALLDALE AVE		LOS ANGELES	CA	90018-3140
JOSEPH HAVLOCK	738 ROYAL AVE		SIMI VALLEY	CA	93065-4349
JOSEPH JOSEPH	2126 HILLSTONE DR		SAN JOSE	CA	95138-2413
JOSEPH KALINA	27230 JEROME ST		BORON	CA	93516-1717
JOSEPH LAZARO	PO BOX 548		ROSAMOND	CA	93560-0548
JOSEPH MCCALL	225 WISTERIA CT		ROSEVILLE	CA	95678-1193
JOSEPH MEROLA	PO BOX 75		BIG BEND	WV	26136-0075
JOSEPH SLOAN	PO BOX 4892		LANCASTER	CA	93539-4892
JOSEPH STRUTH	44838 70TH ST E		LANCASTER	CA	93535-8312

JOSEPH TIPTON	PO BOX 754		ROSAMOND	CA	93560-0754
JOSEPHINE HALVORSEN	5775 E LOS ANGELES AVE # 225		SIMI VALLEY	CA	93063-5213
JOSIE JOHNSON	24373 TAMARISK AVE		BORON	CA	93516-1349
JOVAN REYNALDO	37909 DURANGO PL		PALMDALE	CA	93550-2477
JOVITA LATUPAN	5650 SHELLY ST		PENSACOLA	FL	32526-8095
JOY AESCHBOCKER	5807 HOLIDAY AVE		ROSAMOND	CA	93560-6572
JOYCE CHANCELLOR	43006 BLOOMINGPARK ST		LANCASTER	CA	93536-4645
JOYCE COLOVIN	PO BOX 2486		LANCASTER	CA	93539
JOYCE HARTMANN	PO BOX 577		ROSAMOND	CA	93560-0577
JOYCE IMANAKA	PO BOX 1908		ROSAMOND	CA	93560-1908
JOYCE JANKE	542 60TH ST W		ROSAMOND	CA	93560-6956
JOYCE LEWIS	887 VIA MANZANAS		SAN LORENZO	CA	94580-2835
JOYCE SHULTS	PO BOX 537		ROSAMOND	CA	93560-0537
JPMORGAN CHASE BANK NA	270 PARK AVE		NEW YORK	NY	10017-2014
JPMORGAN CHASE BANK TR	800 STATE HIGHWAY 121 BYP		LEWISVILLE	TX	75067-4180
JUAN BERNAL	46057 20TH ST E		LANCASTER	CA	93535-6002
JUAN COLMENARES	3513 SAN JACINTO AVE		ROSAMOND	CA	93560-6837
JUAN FRANCO	PO BOX 363		ROSAMOND	CA	93560-0363
JUAN JAQUIAS	2780 LAKE VISTA DR		LEWISVILLE	TX	75067-3884
JUAN LELCESONA	PO BOX 902561		PALMDALE	CA	93590-2561
JUAN MEZA	5901 MARGARITHA LN		ROSAMOND	CA	93560-6916
JUAN PALOMO	15031 GERMAIN ST		MISSION HILLS	CA	91345-2011
JUAN PEREZ	5104 62ND ST W		ROSAMOND	CA	93560-6552
JUAN RIVERA	9008 LEMONA AVE		NORTH HILLS	CA	91343-5515
JUAN TORRES	309 S HILL ST		ARVIN	CA	93203-1419
JUANA ACEVEDO	2578 ELLIOT CT		SANTA CLARA	CA	95051-1849
JUANA ARAIZA	6600 HOLIDAY AVE		ROSAMOND	CA	93560-6569
JUANA GUERRERO	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
JUANA ZUNO	25186 PATTERSON RD		LANCASTER	CA	93536-9606
JUANITA ALCALA	PO BOX 2872		LANCASTER	CA	93539-2872
JUANITA HADDOX	12721 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3452
JUANITA LEACH	24232 JUNIPER AVE		BORON	CA	93516-1329
JUANITA ORTA	4491 SEPULVEDA BLVD		CULVER CITY	CA	90230-4848
JUDAH DEVELOPMENT ENTERPRISES INC	45405 FOXTON AVE		LANCASTER	CA	93535-1811
JUDITH RUIZ	2233 OAKRUN LN		NEWHALL	CA	91321
JUDITH SIDES	49540 55TH ST W		LANCASTER	CA	93536-9511
JUDY PEEK	PO BOX 1552		ROSAMOND	CA	93560-1552
JULES MARCOGLIESE	330 WARREN WAY		ARCADIA	CA	91007-8443
JULIA HOSKINS	PO BOX 5142		LANCASTER	CA	93539-5142
JULIA KYLE	12345 E AVENUE J		LANCASTER	CA	93535-8704
JULIA VEN	577 POHAKU ST		KAHULUI	HI	96732-1713
JULIA WEBLEY	1857 S CLOVERDALE AVE		LOS ANGELES	CA	90019-5217
JULIE & VICTOR OLMOS	3080 SEDONA ST	UNIT 148	ROSAMOND	CA	93560-7850
JULIE ENGLISH	24261 SAGE AVE		BORON	CA	93516-1333
JULIE FRANCO	2181 OAK ST		ROSAMOND	CA	93560-6073
JULIE SOUDERS	3505 E AVENUE H		LANCASTER	CA	93535-1620
JULIE SUTTON	PO BOX 391		LANCASTER	CA	93584-0391
JULIE TSE	654 GRANT AVE APT 18		SAN FRANCISCO	CA	94108-2412
JULIENNE MCCALMAN	6633 W AVENUE H10		LANCASTER	CA	93536-8414
JULIETA HERNANDEZ	8068 ANZA DR		SAN DIEGO	CA	92114-4703
JULIO MARTINEZ	PO BOX 66		SAN FERNANDO	CA	91341-0066
JUN MONTARIL	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
JUNE HAYASHI	2625 E 1ST ST		LOS ANGELES	CA	90033-3505
JUNE RICHIE	PO BOX 953		NORTH FORK	CA	93643-0953
JUNE SOLOMON	1400 COLUMBIA AVE		ALAMOGORDO	NM	88310-8016
JUNG DUK Y	51210 280TH ST W		LANCASTER	CA	93536-9236
JUNG GEORGE T / JUNG KATHIE J	47052 85TH ST W		LANCASTER	CA	93536-8626
JUNG HEE W / JUNG CHUNG H	32000 263RD ST E		LLANO	CA	93544-1582
JUNG ROE	408 S 289TH ST		FEDERAL WAY	WA	98003-3609
JUNG SHIN	4432 WOODLEIGH LN		LA CANADA	CA	91011-3541
JUNIPER HILLS COMMUNITY ASSN	PO BOX 192		LITTLEROCK	CA	93543-0192
JUSTIN GORMAN	40518 154TH ST E		LANCASTER	CA	93535
JUSTTINI ALIAGA	820 N LOUISE ST		GLENDALE	CA	91206
K HOVNANIAN FORECAST HOMES INC	3536 CONCOURS STE 100		ONTARIO	CA	91764-5586
KAHLE STEVEN C / CURRY MARCY A	4362 E AVENUE F		LANCASTER	CA	93535-7711
KAI DRENGLER	12060 W AVENUE K		LANCASTER	CA	93536-9009
KAISCHA HILL	25824 CHERRYHILL DR		BORON	CA	93516-1203
KALTZ FRANCIS / KALTZ GERRYE	9833 E AVENUE D4		LANCASTER	CA	93535-7943
KARAN HALL	PO BOX 304		LAKE HUGHES	CA	93532-0304
KAREN BETSON	5093 61ST ST W		ROSAMOND	CA	93560-6463
KAREN BLIGHT	2076 65TH ST W		ROSAMOND	CA	93560-6535
KAREN HAMILTON	24223 CHAPARRAL AVE		BORON	CA	93516-1305
KAREN HART	29824 HOLIDAY AVE		LANCASTER	CA	93536-9603
KAREN MANDELL	13903 SYLVAN ST		VAN NUYS	CA	91401-2219
KAREN MC DONALD	PO BOX 34		MOJAVE	CA	93502-0034
KAREN RICHARDSON	5341 MECCA AVE		TARZANA	CA	91356-4121
KAREN WILLIAMS	19507 ERMINE ST		CANYON CNTRY	CA	91351-1130
KAREN WONNELL	21115 E AVENUE R6		PALMDALE	CA	93591-4603
KARI FOSTER	7865 NOEL ST		ROSAMOND	CA	93560-7026
KARI PULAKKA	PO BOX 1660		ROSAMOND	CA	93560-1660
KARIN WELLS	PO BOX 189		PEARBLOSSOM	CA	93553-0189
KASDIN MITCHELL	2117 COLBY AVE		LOS ANGELES	CA	90025-6207
KATHERINE DOUGLASS	PO BOX 1744		ROSAMOND	CA	93560-1744
KATHERINE WELLING	PO BOX 89		BORON	CA	93596-0089
KATHLEEN BEVAN	2146 W AVENUE K 14		LANCASTER	CA	93536
KATHLEEN CRISMORE	256 E AVENUE R4		PALMDALE	CA	93550-5273
KATHLEEN EHLERT	3 OLYMPIA		IRVINE	CA	92604-1929

KATHLEEN PETERSEN	PO BOX 1074		ROSAMOND	CA	93560-1074
KATHLEEN PRUITT	1701 JUDY AVE		BAKERSFIELD	CA	93312
KATHLEEN SPOOR	PO BOX 2240		ROSAMOND	CA	93560-2240
KATHLEEN URIBE	2306 W AVENUE K10		LANCASTER	CA	93536-1122
KATHLEEN WATSON	2640 60TH ST W		ROSAMOND	CA	93560-6988
KATHLEEN WILLIAMS	2918 65TH ST W		ROSAMOND	CA	93560
KATHLENE ZIPP	3144 QUAD LN APT A		CAMERON PARK	CA	95682-7829
KATHLYN TONTS	1052 S MOUNTAIN AVE		ONTARIO	CA	91762-4854
KATHREEN LACROIX	PO BOX 500130		LAKE LOS ANGELES	CA	93550-0130
KATHRYN BAUER	38713 TIERRA SUBIDA AVE STE 200		PALMDALE	CA	93551-4562
KATHRYN HAINLINE	28143 N 123RD LN		PEORIA	AZ	85383-2532
KATHRYN PEREZ	5361 62ND ST W		ROSAMOND	CA	93560-6503
KATHRYN PEREZ	5361 62ND ST W		ROSAMOND	CA	93560-6503
KATHRYN ROTTMAN	42508 28TH ST W		LANCASTER	CA	93536-4000
KATHRYN TYLER	1288 90TH ST W		ROSAMOND	CA	93560
KATHY HOUGHTON	5822 SUE AVE		ROSAMOND	CA	93560-6969
KATHY JOHNSTON	PO BOX 1345		LITTLEROCK	CA	93543-5345
KATHY LOWE	2075 65TH ST W		ROSAMOND	CA	93560-6535
KATHY MC AFEE	46047 100TH ST E		LANCASTER	CA	93535-8422
KATHY MCAFEE	46047 100TH ST E		LANCASTER	CA	93535-8422
KATHY NELSON	4050 MANLY RD		ROSAMOND	CA	93560-6930
KATOR KAMELA	2217 E AVENUE I		LANCASTER	CA	93535-2313
KAY SIKRA	PO BOX 6184		THOUSAND OAKS	CA	91359-6184
KB HOME GREATER LOS ANGELES INC	27240 TURNBERRY LN STE 100		VALENCIA	CA	91355-1043
KBONE INC	6802 PARAGON PL		RICHMOND	VA	23230-1644
KEITH LEONARD	PO BOX 2585		ROSAMOND	CA	93560-2585
KEITH MARKS	PO BOX 1085		PEARBLOSSOM	CA	93553-1085
KELECHI AJOKU	14523 SW MILLIKAN WAY		BEAVERTON	OR	97005-2344
KELLY BILL F / KELLY DARLYNE M	7321 W AVENUE G		LANCASTER	CA	93536-8618
KELLY MACKEN	PO BOX 875		NORTH EDWARDS	CA	93523-0875
KELLY SCOBIE	40056 CASTANA LN		PALMDALE	CA	93551
KELLY STERLING	5788 CHARAN RD		ROSAMOND	CA	93560-7116
KELLY TOUCHSTONE	3105 85TH ST W		ROSAMOND	CA	93560-6961
KEMP ROBERT M	2028 W AVENUE K10		LANCASTER	CA	93536-4607
KENNARD JOHN M / ANDERSON GLENDA	40801 RIVEROCK LN		PALMDALE	CA	93551-1203
KENNETH ANDRADE	47522 80TH ST W		LANCASTER	CA	93536-8637
KENNETH BRYANT	1103 E GLADWICK ST		CARSON	CA	90746-3824
KENNETH CUNNINGHAM	PO BOX 2774		LANCASTER	CA	93539-2774
KENNETH FRANCIS	28542 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553
KENNETH GABBANI	2163 HARRIS AVE		ROSAMOND	CA	93560-6520
KENNETH HAGOOD	24129 CHAPARRAL AVE		BORON	CA	93516-1303
KENNETH HATCHER	308 E AVENUE J12		LANCASTER	CA	93535-4054
KENNETH HUIE	701 N STORY PL		ALHAMBRA	CA	91801-1555
KENNETH KILBOURNE	28701 DEVILS PUNCH BOWL RD		PEARBLOSSOM	CA	93553-3431
KENNETH KRUG	824 LEWISTON DR		SAN JOSE	CA	95136-1516
KENNETH MARSHALL	6475 105TH ST W		ROSAMOND	CA	93560-6937
KENNETH MURPHY	PO BOX 334		ROSAMOND	CA	93560-0334
KENNETH WILLIS	19436 GASKELL RD		ROSAMOND	CA	93560-7289
KENT BUSS	2839 EL CAMINITO		LA CRESCENTA	CA	91214-2004
KENT HALCROMB	24124 CHAPARRAL AVE		BORON	CA	93516-1304
KERR DAVID W / KERR GINA M	18750 W AVENUE E8		LANCASTER	CA	93536-9064
KERRY HAMILTON	24223 CHAPARRAL AVE		BORON	CA	93516-1305
KEVIN CASH	2119 CAMINO LARGO DR		CHINO HILLS	CA	91709-1040
KEVIN DAUGHERTY	PO BOX 2138		ROSAMOND	CA	93560-2138
KEVIN KLUTCHKO	6705 VALMONT ST		TUJUNGA	CA	91042-2500
KEVIN NGUYEN	12314 MAILY MEADOWLANE		SUGAR LAND	TX	77478-6170
KEVIN SNOW	340 VILLAGE CREEK RD		APTOS	CA	95003-3939
KEVIN TYLER	1288 90TH ST W		ROSAMOND	CA	93560
KEVIN WILLIAMS	45863 100TH ST E		LANCASTER	CA	93535-8416
KIEULAN NGUYEN	10505 MIDWAY ST		BELLFLOWER	CA	90706-5070
KIM EVANS	12400 SIERRA VIEW ST		BORON	CA	93516-1343
KIM RIVAS	PO BOX 1740		TEMPLE CITY	CA	91780-7740
KIM SOWERSBY	50404 60TH ST W		LANCASTER	CA	93536-9553
KIM YOHAN	11208 JUNIPER HILLS RD		JUNIPER HILLS	CA	93543-4219
KIMBER KIEFER	5332 61ST ST W		ROSAMOND	CA	93560-6533
KIMBERLY HARTWIG	1720 W AVENUE L4		LANCASTER	CA	93534-6951
KIMBERLY LOMBARD	PO BOX 929		ROSAMOND	CA	93560-0929
KIMBERLY NEITHER	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
KIMBERLY POMEROY	29319 121ST ST E		JUNIPER HILLS	CA	93543-4204
KIMBERLY RILEY	6110 BRENTWOOD AVE		LANCASTER	CA	93536-1790
KIMBERLY SANDHU	PO BOX 6556		LANCASTER	CA	93539-6556
KIMBLE MICHAEL R / KIMBLE BONNIE G	18649 W AVENUE E8		LANCASTER	CA	93536-9065
KINDIG BEVERLY A / KINDIG EUGENE	50632 70TH ST W		LANCASTER	CA	93536-9517
KINDIG PAUL S / KINDIG SHARON R	49742 70TH ST W		LANCASTER	CA	93536-9513
KING JOAN	2547 W AVENUE F2		LANCASTER	CA	93536-9572
KINU STEINHOFF	2025 S 8TH ST	# A	ALHAMBRA	CA	91803-4031
KIRBY JAMES D ; ROBERTA J / KIRBY FAMILY	20441 BIG PINES HWY		VALYERMO	CA	93563-1006
KIRK JOHN V JR / KIRK KIMBERLY F	12345 NEARWOOD RD		PEARBLOSSOM	CA	93553-3429
KIRK WEBLEY	9293 REGENTS RD UNIT C207		LA JOLLA	CA	92037-9172
KIRSTEN KELLER	4127 W AVENUE N3		PALMDALE	CA	93551-1820
KIYIOUNG LEE	PO BOX 741156		LOS ANGELES	CA	90004-9156
KLOTZ VINCENT F	39165 240TH ST E		PALMDALE	CA	93591-4700
KNOTT ROBERT S / KNOTT KATHLEEN A	17050 LANCASTER RD		LANCASTER	CA	93536-9018
KNUDTSON KEVIN M	11301 MANZANITA MESA RD		LITTLEROCK	CA	93543-4229
KOBIE CONNER	3748 VIRGINIA RD		LOS ANGELES	CA	90016-5822
KOOTENAI PROPERTIES INC	107 S HAZELWOOD DR		COEUR D ALENE	ID	83814-5813
KOSALA APPUHAMILLAGE	3038 CROWNE DRIVE		PALMDALE	CA	93551-1561

KOSTECKY STEVEN J	8722 W AVENUE E		LANCASTER	CA	93536-8784
KRAJCZYNSKI MICHAEL J JR	48801 120TH ST E		LANCASTER	CA	93535-8010
KRECHNYAK	PO BOX 926		ROSAMOND	CA	93560-0926
KRIS KEHL	25129 THE OLD RD STE 300		STEVENSON RANCH	CA	91381-2291
KRISTI ANDERSON	9742 VALJEAN AVE		NORTH HILLS	CA	91343-1936
KRISTIE HOLADAY	38250 200TH ST E		PALMDALE	CA	93591-4400
KUCHA WOITTE	28441 HIGHRIDGE RD STE 303		ROLLING HILLS ESTATES	CA	90274-4872
KUHNERT PETER J / KUHNERT DEBRA S	39950 135TH ST E		PALMDALE	CA	93591-1600
KUM KANG	912 CRENSHAW BLVD		LOS ANGELES	CA	90019-1937
KUN STEVE / KUN ELINOR	3554 PEARBLOSSOM HWY		PALMDALE	CA	93550-9290
KUNGL KATHARINA / KUNGL TRUST	9635 E AVENUE H		LANCASTER	CA	93535-8414
KURT BALDWIN	20528 E AVENUE Q12		PALMDALE	CA	93591-4503
KWAN MINH	3852 RABBIT MOUNTAIN RD		BROOMFIELD	CO	80020-5555
KYLE GAILEN W ; JULIA / KYLE TRUST	12345 E AVENUE J		LANCASTER	CA	93535-8704
KYLE JAMES W; WANDA E	KYLE JAMES; WANDA /TR	12345 E AVENUE J	LANCASTER	CA	93535-8704
KYM HICKMAN	PO BOX 900518		PALMDALE	CA	93590-0518
KYO LEEM	1717 CRENSHAW BLVD		LOS ANGELES	CA	90019-6037
KYUNG HOON JUN	20150 STAGG ST		CANOGA PARK	CA	91306-2513
L ARMFIELD	PO BOX 1938		ROSAMOND	CA	93560-1938
LA ROCCA	PO BOX 1172		ROSAMOND	CA	93560-1172
LAHOMA DICKSON	PO BOX 167		LANCASTER	CA	93584-0167
LAINEZ MAURICIO / LAINEZ MARIA G	29902 TENTERDON ST		LITTLEROCK	CA	93543-3611
LAKISHA NELSON	603 N DARFIELD AVE		COVINA	CA	91724-2805
LAMAR WILBORN	372 GREENMEADOW AVE		THOUSAND OAKS	CA	91320-4149
LAMB	9250 NW MOUNTAIN VIEW ACRES RD		PRINEVILLE	OR	97754-9267
LAMB FMLY TR	9250 NW MOUNTAIN VIEW ACRES RD		PRINEVILLE	OR	97754-9267
LAMBERT RUSSELL R SR / LAMBERT MARTHA C	PO BOX 3218		GLENDALE	CA	91221-0218
LAMOUREAUX DARRELL L / LAMOULREAUX TRUST	4509 CINNABAR AVE		PALMDALE	CA	93551-1855
LANCASTER 160 INVESTMENTS LLC	1054 S DE ANZA BLVD STE 202		SAN JOSE	CA	95129-3553
LANCASTER DUMP CORP	PO BOX 1450		CHICAGO	IL	60690-1450
LANCASTER KOREAN BAPTIST CHURCH	4525 W LANCASTER BLVD		LANCASTER	CA	93536-7602
LANCASTER PALMS LLC	7116 VALJEAN AVE		VAN NUYS	CA	91406-3901
LANCASTER WATER CO	PO BOX 25		LANCASTER	CA	93584-0025
LANCE BALDWIN	8263 MOJAVE AVE		ROSAMOND	CA	93560-7367
LANCE NIELSEN	PO BOX 25		LLANO	CA	93544-0025
LANDBANK DEVELOPMENT COMPANY LLC	325 HARBOUR COVE DR STE 211		SPARKS	NV	89434-7859
LANE JUANITA A	29346 125TH ST E		PEARBLOSSOM	CA	93553
LARA JOSE / LARA MARICELA	37301 THE GRVS		PALMDALE	CA	93551-6236
LARRY BERTRAM	12993 SANTA PAULA OJAI RD		SANTA PAULA	CA	93060-9624
LARRY CONNELLY	7193 PEARBLOSSOM HWY		LITTLEROCK	CA	93543-3035
LARRY HALTOM	2640 HOLLISTER TER		GLENDALE	CA	91206-3119
LARRY LOEHR	5457 60TH ST W		ROSAMOND	CA	93560-6584
LARRY MATTOX	11728 N 153RD AVE		SURPRISE	AZ	85379-7271
LARRY MEGUIAR	24300 CHAPARRAL AVE		BORON	CA	93516-1308
LARRY RICHARDSON	2178 RALEIGH AVE		COSTA MESA	CA	92627-2941
LARRY ROTTMAN	42508 28TH ST W		LANCASTER	CA	93536-4000
LARRY SALTER	2240 W AVENUE N		PALMDALE	CA	93551-2338
LARRY SMITH	PO BOX 344		ROSAMOND	CA	93560-0344
LARRY WILBURN	4875 SWEETSER RD		ROSAMOND	CA	93560-6455
LASALLE	14523 SW MILLIKAN WAY STE 200		BEAVERTON	OR	97005-2352
LASALLE BANK TR	14523 SW MILLIKAN WAY STE 200		BEAVERTON	OR	97005-2352
LASSEN ASSOCIATES AND	13659 VICTORY BLVD # 1045		VAN NUYS	CA	91401-1735
LATHAN COLLINS	42305 DANIEL DR		LANCASTER	CA	93536-1231
LAU AND LIM ASSOC AND	144 AMHERST ST		SAN FRANCISCO	CA	94134-1304
LAURA ANDREWS	PO BOX 6224		LANCASTER	CA	93539-6224
LAURA GRIFFIN	48009 70TH ST E		LANCASTER	CA	93535-7840
LAURA GRIFFIN	48009 70TH ST E		LANCASTER	CA	93535-7840
LAURA GUEVARA	PO BOX 399		ROSAMOND	CA	93560-0399
LAURA SCHILLING	1235 MIRANDA CT		TEHACHAPI	CA	93561-2364
LAURA SMITH	42325 HIGHLAND CT		LANCASTER	CA	93536-7392
LAURA TRAVIS	5284 64TH ST W		ROSAMOND	CA	93560-6261
LAUREN ANDERSON	11819 KLING ST		VALLEY VILLAGE	CA	91607-4009
LAURENCE BRUNET	1384 NAPLES CT		SIMI VALLEY	CA	93065-4137
LAURENCE LEVIN	PO BOX 588		LITTLEROCK	CA	93543-0588
LAURI LYTLE	368 55TH ST W		ROSAMOND	CA	93560-6542
LAURIE CONROY	29669 LANCASTER RD		LANCASTER	CA	93536-9016
LAVERNE HICKS	3454 SATIN COURT		PALMDALE	CA	93551-3507
LAVONNE PRYOR	5120 SAINT LAURENT PL		PALMDALE	CA	93552-3200
LAWRENCE EVANS	PO BOX 560		PEARBLOSSOM	CA	93553-0560
LAWRENCE HUMPHREY	17650 DEVONSHIRE ST		NORTHRIDGE	CA	91325-1445
LAWRENCE MICHAEL / LAWRENCE LINDA	7155 W AVENUE J		LANCASTER	CA	93536-7612
LAWRENCE SHERMAN	2010 W AVENUE K STE 825		LANCASTER	CA	93536-5229
LAWRENCE WOLF	18746 W AVENUE E4		LANCASTER	CA	93536-9050
LAWRENCE ZIEHLER	11936 WICKS ST		SUN VALLEY	CA	91352-1907
LAYLA KHALAF	18566 DERBY CIR		HUNTINGTON BEACH	CA	92648-1565
LAYTHON TOMINAGA	6368 N WILLARD AVE		SAN GABRIEL	CA	91775-1833
LAZARES ELLEN J	12605 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3453
LAZARO ESCOBAR	3300 83RD ST W		ROSAMOND	CA	93560
LE FREEMAN	11716 LONE OAK DR		BAKERSFIELD	CA	93312-3408
LEAANN ADAMS	1405 90TH ST W		ROSAMOND	CA	93560-7175
LEANO PEDRO F; AURELIA Q	PABRO LEONARDO; MADELINE L	8018 E AVENUE J	LANCASTER	CA	93535-8437
LEE BOK S	1648 W 12TH PL		LOS ANGELES	CA	90015-1906
LEE CHAHYUN	1030 E AVENUE S SPC 97		PALMDALE	CA	93550-6835
LEE CHANEY	1832 FLOWER ST		BAKERSFIELD	CA	93305-4144
LEE HALL	5318 W AVENUE L6		QUARTZ HILL	CA	93536-4444
LEE HORMOZIAN	10623 ATLANTA AVE		NORTHRIDGE	CA	91326-2901
LEE JIMMY	PO BOX 943		ROSAMOND	CA	93560-0943

LEE JONGSUN	1640 W 12TH PL		LOS ANGELES	CA	90015-1906
LEEANNE YOST	3608 GOLD STONE LN		ROSAMOND	CA	93560-6808
LEGAN LESTER L JR / LEGAN NITA S	10842 SILVERWIND AVE		LANCASTER	CA	93536-7703
LEIGHANN PACHECO	5731 WILLOW AVE		ROSAMOND	CA	93560-6951
LEINART MARGIE C	7505 W AVENUE G		LANCASTER	CA	93536-8619
LELAND FRANCO	4337 W AVENUE L8		LANCASTER	CA	93536-3416
LENA MAKSHANOFF	PO BOX 2233		ROSAMOND	CA	93560-2233
LENSING VALERIE A	30601 104TH ST E		LITTLEROCK	CA	93543-3618
LEON DOURBAYAN	69520 CRESTVIEW DR		DSRT HOT SPGS	CA	92241-8724
LEON HONG	1112 FAIRVIEW DR		LA CANADA	CA	91011-2359
LEON HOOK	35020 SMALL RD		PALMDALE	CA	93550-9736
LEON MURACHANIAN	9035 CASPER RD		ROSAMOND	CA	93560-6941
LEON TAYLOR	5132 BRYNHURST AVE		LOS ANGELES	CA	90043-1804
LEON WANDA R	5501 E AVENUE D8		LANCASTER	CA	93535-7857
LEONA MASTAN	691 S WILD ROSE LN		ATOKA	OK	74525-4520
LEONARD DIMASI	PO BOX 772		BURBANK	CA	91503-0772
LEONARD GRIFFIN	48009 70TH ST E		LANCASTER	CA	93535-7840
LEONARD GRIFFIN	48009 70TH ST E		LANCASTER	CA	93535-7840
LEONARD RODRIGUEZ	PO BOX 62900		LOS ANGELES	CA	90062-0900
LEONARD WAGNER	5840 SUN RIVER CIR		LAS VEGAS	NV	89142-1271
LEONARD WILLIAM	323 W/J-10		LANCASTER	CA	93534
LEONARDO MANLOSA	10400 RUFFNER AVE		GRANADA HILLS	CA	91344-6546
LEONARDO VASQUEZ	47620 5TH ST E		LANCASTER	CA	93535-7600
LEONCIO ESCALANTE	212 E AVENUE K6 STE 330		LANCASTER	CA	93535-4565
LEONIDAS NOGUERA	4837 WATT AVE		NORTH HIGHLANDS	CA	95660-5108
LEONORA CARRASCO	5836 HIDDEN TRAIL RD		ROSAMOND	CA	93560-6917
LEOPARD EDWARD; LANORA L	LEOPARD TRUST	46963 DIVISION ST	LANCASTER	CA	93535-6410
LESLIE A AMENT TR	PO BOX 799		LEONA VALLEY	CA	93551-0799
LESLIE CHOU	1497 HONEY CREEK CT		THOUSAND OAKS	CA	91320-6577
LESLIE HARDY	1000 TECHNOLOGY DR MS 314		O FALLON	MO	63368-2239
LESLIE JONES	9801 CIMA MESA RD		LITTLEROCK	CA	93543-3634
LESLIE MEYER	47721 222ND ST W		LANCASTER	CA	93536-9116
LESLIE WEST	23008 LANCASTER RD		LANCASTER	CA	93536-9023
LESLIE WILLIFORD	PO BOX 19		ROSAMOND	CA	93560-0019
LESTER HARRY ; ELIZABETH / LESTER FAMILY	40816 RIVEROCK LN		PALMDALE	CA	93551-1203
LESTER MICHAEL E	7245 ANTELOPE HWY		LANCASTER	CA	93536
LESTER MILLER	160 W AVENUE L9		LANCASTER	CA	93534-7125
LETICIA DOMINGUEZ	1321 LOTTA DR		LOS ANGELES	CA	90063-3204
LETICIA MARTINEZ	6055 HOLIDAY AVE STE B		ROSAMOND	CA	93560-7129
LETICIA PRECIADO	400 COUNTRYWIDE WAY		SIMI VALLEY	CA	93065-6298
LETTY TYCANGCO	609 BALBOA ST		WEST COVINA	CA	91791-2653
LEWIS TROMLEY	45016 KINGTREE AVE		LANCASTER	CA	93534-2240
LEWIS YOUNG	2337 W AVENUE I		LANCASTER	CA	93536-7208
LIDIA FRANCO	PO BOX 363		ROSAMOND	CA	93560-0363
LIDIA VILLALOBOS	3110 E GUASTI RD		ONTARIO	CA	91761-1219
LIDO ESTATES MHC LLC	1105 HILLSDALE AVE # 100		SAN JOSE	CA	95118
LIDUVINA RAMIREZ	30900 106TH ST E		LITTLEROCK	CA	93543-3661
LIEH HSU	23823 VALLEY OAK CT		NEWHALL	CA	91321-3747
LIEHSHAU HSU	23823 VALLEY OAK CT		NEWHALL	CA	91321-3747
LIEN HO	13529 VALLE VISTA AVE		BALDWIN PARK	CA	91706-2849
LIESA JONES	PO BOX 62		ROSAMOND	CA	93560-0062
LILA BURNS	3631 W AVENUE B		ROSAMOND	CA	93560-7102
LILIA LORD	6423 W ROSAMOND BLVD		ROSAMOND	CA	93560
LILIA QUIMOSING	2132 W JUNO AVE APT C		ANAHEIM	CA	92804-4448
LILIA SELAK	1975 PLACID DR APT 6		VAIL	CO	81657-4373
LILLIAN MAIMONE	1390 E PALM ST		ALTADENA	CA	91001-2042
LILLIE BLUFF	12183 EL MIRAGE ST		BORON	CA	93516-1312
LILLIE SHEPARD	31791 VIA PATO		COTO DE CAZA	CA	92679-4128
LILLYANN WYER	PO BOX 1296		ROSAMOND	CA	93560-1296
LILYBELL CABRAL	2780 LAKE VISTA DR		LEWISVILLE	TX	75067-3884
LIMESAND RAYMOND & CHARLOTTE FAM TR	15347 SAN MIGUEL WAY		VICTORVILLE	CA	92394-0827
LINCOLN GRANT	121 WOODCREST RD		CHERRY HILL	NJ	08003-3620
LINDA ADAMS	PO BOX 397		PEARBLOSSOM	CA	93553-0397
LINDA BRANNAN	PO BOX 1852		ROSAMOND	CA	93560-1852
LINDA CHO	11450 WISTFUL VISTA WAY		NORTHRIDGE	CA	91326-4183
LINDA CUMMINGS	HCR 3 BOX 226		ROSAMOND	CA	93560
LINDA DENNIS	5962 MARGARITHA LN		ROSAMOND	CA	93560-6916
LINDA HARMON	5771 CHARAN RD		ROSAMOND	CA	93560-7126
LINDA HAWLEY	4360 E MAIN ST UNIT 154		VENTURA	CA	93003-8279
LINDA HODGE	44131 80TH ST W		LANCASTER	CA	93536-7509
LINDA HUTCHINS	5401 W AVENUE A		ROSAMOND	CA	93560-6985
LINDA JANSSEN	PO BOX 2478		ROSAMOND	CA	93560-2478
LINDA MASTIN	2660 PEARBLOSSOM HWY		PALMDALE	CA	93550-9519
LINDA MATHEWS	5394 61ST ST W		ROSAMOND	CA	93560-6533
LINDA RICHEY	24358 TAMARISK AVE		BORON	CA	93516-1350
LINDA ROSQUIN	6464 FAVORITO AVE		ROSAMOND	CA	93560-6253
LINDA RUBY	685 LAUREL ST		ROSAMOND	CA	93560-6981
LINDA SKIPWORTH	PO BOX 552		BORON	CA	93596-0552
LINDA SNOW	340 VILLAGE CREEK RD		APTOS	CA	95003-3939
LINDA STORSTEEN	PO BOX 500131		PALMDALE	CA	93550-0131
LINNE LANE	905 MISSION CREEK DR		PALM DESERT	CA	92211-5910
LINO QUINTERO	PO BOX 2200		ROSAMOND	CA	93560-2200
LISA BISHOP	6318 105TH ST W		ROSAMOND	CA	93560-6933
LISA GEAR	PO BOX 1615		ROSAMOND	CA	93560-1615
LISA LAMOUREAUX	24276 TAMARISK AVE		BORON	CA	93516-1348
LISA LEONARD	PO BOX 2585		ROSAMOND	CA	93560-2585
LISA MATTOX	11728 N 153RD AVE		SURPRISE	AZ	85379-7271

LISA PALLOW	PO BOX 395		LLANO	CA	93544-0395
LISA PETREY	12221 SIERRA VIEW ST		BORON	CA	93516-1339
LISA SARASPI	6 SHANNON CIR		ALAMEDA	CA	94502-7729
LISA WILLIAMS	41813 PICO WAY		PALMDALE	CA	93551-4721
LISA YORK	18611 BRYMER ST		NORTHRIDGE	CA	91326-1925
LISET CORONA	10239 MCNERNEY AVE		SOUTH GATE	CA	90280-6707
LITTON LN SVCNG	4828 LOOP CENTRAL DR		HOUSTON	TX	77081-2212
LIU YUTANG	1002 S ATLANTIC BLVD APT 4		ALHAMBRA	CA	91803-2256
LIV LOOMIS TR	PO BOX 429		ROSAMOND	CA	93560-0429
LIVING TR	ATTN: JERALD THOMAS	PO BOX 1031	ROSAMOND	CA	93560-1031
LIVRADO VALENCIA	41129 18TH ST W		PALMDALE	CA	93551-2232
LIZA HANTSKE	7683 CIRCULO SEQUOIA		CARLSBAD	CA	92009-8472
LLARENA JOSEPH T	9310 W AVENUE H		LANCASTER	CA	93536-8007
LLARENA RICHARD A	45944 97TH ST W		LANCASTER	CA	93536-8014
LLOYD BURGESS	12300 SIERRA VIEW ST		BORON	CA	93516-1342
LLOYD TEEL	PO BOX 366		LITTLEROCK	CA	93543-0366
LOANA BOYD	1401 60TH ST W		ROSAMOND	CA	93560-6523
LOBOS JEREMIAH	1015 N BUENA VISTA ST		BURBANK	CA	91505-2320
LOCKHEED CORP	PO BOX 748		FORT WORTH	TX	76101-7450
LODS CLIFFORD / LODS BARBARA J	43036 FLAG ST		LANCASTER	CA	93536-4651
LOIS BEECHLY	PO BOX 155		ROSAMOND	CA	93560-0155
LOIS EBERHARDT	2204 AGNES ST		EAU CLAIRE	WI	54701-4705
LOIS ENDSLEY	PO BOX 720006		PINON HILLS	CA	92372-0006
LOIS M STEVENS LIVING TRUST	PO BOX 781		ROSAMOND	CA	93560-0781
LOIS PLETCHER	18100 CASTLE BUTTE RD		EDWARDS	CA	93523-3200
LOKOS REVOCABLE LIVING TRUST	5775 WILLOW AVE		ROSAMOND	CA	93560-6951
LOMAAK JAY	364 COMSTOCK DR		VENTURA	CA	93001-1536
LONG VALLEY ROAD LP	23475 LONG VALLEY RD		WOODLAND HILLS	CA	91367-6006
LONGSHYONG LEE	420 N DAISY AVE		PASADENA	CA	91107-2809
LONNIE SEBELLITA	PO BOX 247		ROSAMOND	CA	93560-0247
LOPEZ MARTHA	48560 77TH ST W		LANCASTER	CA	93536-9300
LOPEZ SANTOS / LOPEZ CONSUELO	46716 120TH ST E		LANCASTER	CA	93535-8731
LOPEZ STEVEN / LOPEZ VICKI L	44300 MUNZ RANCH RD		LAKE HUGHES	CA	93532-1204
LORENA CARTER	PO BOX 2421		ROSAMOND	CA	93560-2421
LORENA CASTILLO	17107 MOSSDALE AVE		LANCASTER	CA	93535-7427
LORENZ MERGILI	PO BOX 2531		ROSAMOND	CA	93560-2531
LORI MC LAIN	PO BOX 1909		ROSAMOND	CA	93560-1909
LORRAINE SCHWARZ	5395 60TH ST W		ROSAMOND	CA	93560-6265
LORRAINE SHONE	PO BOX 265		LITTLEROCK	CA	93543-0265
LOS ANGELES INTL CHURCH OF	3731 WILSHIRE BLVD STE 800		LOS ANGELES	CA	90010-2850
LOTUS COMMUNICATIONS CORP	1645 VINE ST STE 200		LOS ANGELES	CA	90028-8839
LOUIS CHOSTNER	2136 NIPOMO AVE		LONG BEACH	CA	90815-3523
LOUIS ENGEL	7334 E BLACK ROCK RD		SCOTTSDALE	AZ	85255-6108
LOUISE LUJAN FAMILY TRUST	8748 W ROSAMOND BLVD		ROSAMOND	CA	93560-6972
LOUISE MOE	PO BOX 87		PEARBLOSSOM	CA	93553-0087
LOVE BRUCE / LOVE STEPHANIE	29709 104TH ST E		JUNIPER HILLS	CA	93543-3665
LOWDER DONALD J	7129 W AVENUE E		LANCASTER	CA	93536-8808
LOWE GLEN E / ADAMS SHIRLEY J	PO BOX 4146		LANCASTER	CA	93539-4146
LOWELL MCMAHAN	17146 MCKEEVER ST		GRANADA HILLS	CA	91344-4145
LP EQUITY RESOURCES II INC	PO BOX 8159		CALABASAS	CA	91372-8159
LSF6 MERCURY TRUST SERIES 2008-1	715 METROPOLITAN AVE		OKLAHOMA CITY	OK	73108-2088
LUBOS CRISPINO / LUBOS JULAIDA A	48565 70TH ST W		LANCASTER	CA	93536-8801
LUCERO MANUEL / THI NHAM LE	5267 BOGGS ST		ROSAMOND	CA	93560
LUCIENNE HASSLER	2225 LINNINGTON AVE		LOS ANGELES	CA	90064-2339
LUCILA DOLATRE	1300 LANCE LN		CAROL STREAM	IL	60188-3332
LUCILA RAMOS	12567 YUBA RD		PHELAN	CA	92371-7836
LUCIO FERNANDEZ	PO BOX 900126		PALMDALE	CA	93590-0126
LUCITA TIMPLE	7635 W AVENUE G		LANCASTER	CA	93536-8620
LUCRETIA JOHNSON	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
LUCY L TUNNEL TRUST	26005 BEAR VALLEY RD		TEHACHAPI	CA	93561-9218
LUIS CALDERON	6456 HOLIDAY AVE		ROSAMOND	CA	93560-6522
LUIS CARLOS	3002 ALSACE AVE		LOS ANGELES	CA	90016-3802
LUIS FUENTES	355 S HIDDEN GROVE LN		ANAHEIM	CA	92807
LUIS MUNOZ	7241 LURLINE AVE		WINNETKA	CA	91306-2728
LUIS REJON	20964 DELPHINE DR		WALNUT	CA	91789-2554
LUIS RODRIGUEZ	9500 LAUREL CANYON BLVD		ARLETA	CA	91331-4213
LUIS ROSALES	217 ELM ST		ALHAMBRA	CA	91801-3008
LUIS VARGAS	9500 LAUREL CANYON BLVD		ARLETA	CA	91331-4213
LUIZ GARCIA JR	PO BOX 924		ROSAMOND	CA	93560-0924
LUNDGREN JANET CORRINE	LUNDGREN JANET C	51350 280TH ST W	LANCASTER	CA	93536-9238
LUS JIMENEZ	2222 16TH ST		SANTA MONICA	CA	90405-1608
LUZVIMINDA PADILLA	3633 KIM CT		LANCASTER	CA	93536-6208
LYDIA BAKER	35130 WYSE RD		AGUA DULCE	CA	91390-4654
LYDIA COZBY	PO BOX 1		VALYERMO	CA	93563-0001
LYDIA PEREZ	4165 E AVENUE S12		PALMDALE	CA	93552-5801
LYDIA SANCHEZ	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
LYDIA THORNTON	PO BOX 155		BORON	CA	93596-0155
LYDIA VENTUROLI	PO BOX 633		PEARBLOSSOM	CA	93553-0633
LYMAN MOMENY	638 GROTON DR		BURBANK	CA	91504-2419
LYNCH NEOMI H	13120 BRADLEY AVE	SPC 3	SYLMAR	CA	91342-0686
LYNN MICHELLE	24180 CHAPARRAL AVE		BORON	CA	93516-1304
LYNNE URIBE	4420 BRIGHTON CT		HEMET	CA	92544-1875
LYONS JOHN S /LT / LYONS HELEN L	36453 165TH ST E		LLANO	CA	93544-1133
M MAGNUSSON	25062 ATWOOD BLVD		NEWHALL	CA	91321-3402
M MALLOCH	5891 CASSON DR		YORBA LINDA	CA	92886-9020
MACIOCE DANIEL L / MACIOCE YIFEI W	28810 W AVENUE B		LANCASTER	CA	93536-9719
MACKEY JOHN E / MACKEY KRISTINA	45529 55TH ST W		LANCASTER	CA	93536-8314

MACLOVIO QUINTERO	5642 GOBI AVE		ROSAMOND	CA	93560-6971
MACNERNEY MARK E	23330 FORT TEJON RD		LLANO	CA	93544-1562
MADAULE STEVEN / MADAULE VICKI	46324 70TH ST W		LANCASTER	CA	93536-8510
MADDOCK DAVID T / MADDOCK GRACE A	30420 LARGO VISTA RD		LLANO	CA	93544-1413
MADDOX CHALLIS L	HANLON MICHAEL G; SANDRA L	7811 W AVENUE H	LANCASTER	CA	93536-8108
MAGALY MOLINA	62 PARC PLACE DR		MILPITAS	CA	95035-3848
MAGGI HAVAS	PO BOX 801474		SANTA CLARITA	CA	91380-1474
MAHBOD JAVADI	PO BOX 10965		NEWPORT BEACH	CA	92658-5014
MAHMOUD RABANI	1727 W 1ST ST		SAN PEDRO	CA	90732-3106
MAIDA CUNNINGHAM	PO BOX 2774		LANCASTER	CA	93539-2774
MALCOLM EDE	PO BOX 364		LANCASTER	CA	93584-0364
MALCOLM KENNEDY	41654 FIRENZE ST		LANCASTER	CA	93536-2953
MALCOLM MC CAMPBELL	PO BOX 24		GORMAN	CA	93243-0024
MANDELL DANIEL J / MANDELL SANDRA L	14706 E AVENUE Q		PALMDALE	CA	93591-2801
MANN GREGG A / MANN SHEILA A	7345 W JACKMAN ST		LANCASTER	CA	93536-7801
MANOUCHEHR HORMOZI	6323 MESSINA CT		PALMDALE	CA	93552-4737
MANUEL GARCIA	7601 W AVENUE A		LANCASTER	CA	93536-9623
MANUEL GONZALEZ	13745 HANWELL AVE		BELLFLOWER	CA	90706-2055
MANUEL GONZALEZ	19005 NEARBROOK ST		CANYON CNTRY	CA	91351-3306
MANUEL GUILLEN	29826 LANCASTER RD		LANCASTER	CA	93536-9029
MANUEL HERNANDEZ	554 W LANCASTER BLVD		LANCASTER	CA	93534-2534
MANUEL PEREZ	7408 AMIGO AVE		RESEDA	CA	91335-2810
MANUEL RUIZ	335 CAGEL ST		ROSAMOND	CA	93560-6955
MANUEL SEGURA	5800 HIDDEN TRAIL RD		ROSAMOND	CA	93560
MANUELA DIAZ	PO BOX 2294		ROSAMOND	CA	93560-2294
MANUELA MARQUEZ	6765 CHERRY AVE		LONG BEACH	CA	90805-1716
MARC CALDERON	PO BOX 2156		ROSAMOND	CA	93560-2156
MARCIA KOLVENBACH	PO BOX 2366		ROSAMOND	CA	93560-2366
MARCO JOHNSON	42444 28TH ST W		LANCASTER	CA	93536-4019
MARCO MAIMONE	1390 E PALM ST		ALTADENA	CA	91001-2042
MAREE J DE LANO TR	PO BOX 476		ROSAMOND	CA	93560-0476
MAREK PRZYSTUPA	3053 RANCHO VISTA BLVD # H205		PALMDALE	CA	93551-4823
MARGARET BEELER	5204 W AVENUE L6		LANCASTER	CA	93536-4442
MARGARET DE LA ROSA	9580 W ROSAMOND BLVD		ROSAMOND	CA	93560-7505
MARGARET GREENBERG	PO BOX 1571		ROSAMOND	CA	93560-1571
MARGARET JEFFERSON	29240 E 126TH ST		PEARBLOSSOM	CA	93553
MARGARET LANTING	18349 SUMMER AVE		ARTESIA	CA	90701-5526
MARGARET LARSEN	PO BOX 2413		ROSAMOND	CA	93560-2413
MARGARET MEDINA	18122 E AVENUE O		PALMDALE	CA	93591-3804
MARGARET MOLLMAN	682 N NORTH 300 EAST		VALPARAISO	IN	46383
MARGARET MUSE	2330 EL PESCADOR CT		GOLD RIVER	CA	95670-6223
MARGARET WHYTE	3612 BRAEWOOD DR		LAS VEGAS	NV	89121-3713
MARGARITA CABRERA	3476 STATEVIEW BLVD		FORT MILL	SC	29715-7203
MARGARITA CASTANON	2830 60TH ST W		ROSAMOND	CA	93560-6991
MARGARITA ENRIQUEZ	3543 BRABHAM AVE		ROSAMOND	CA	93560-6891
MARGARITA GARCIA	1209 W AVENUE H15		LANCASTER	CA	93534-1750
MARGARITA SOLORZANO	42848 ALEP ST		LANCASTER	CA	93536-4857
MARGE GROVEN	43036 42ND ST W		LANCASTER	CA	93536-5007
MARGERETT ROQUEMORE	PO BOX 796		BORON	CA	93596-0796
MARIA AGUIRRE	6551 RHODES AVE		N HOLLYWOOD	CA	91606-2315
MARIA ALATORRE	42227 ROUND HILL DR		LANCASTER	CA	93536-7314
MARIA ALBERTO	4409 PARK AVE		BALDWIN PARK	CA	91706-2716
MARIA AMBRIZ	1477 BROWN LN		FARMINGTON	UT	84025-3002
MARIA BLACK	PO BOX 6135		SANTA BARBARA	CA	93160-6135
MARIA CASTRO	4824 W 120TH ST		HAWTHORNE	CA	90250-2725
MARIA CONSTANTINO	20636 VERCELLI WAY		NORTHRIDGE	CA	91326-4156
MARIA CRUZ	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
MARIA GASPAR	7245 SHOUP AVE		WEST HILLS	CA	91307-1735
MARIA GOMEZ	6925 DOGWOOD AVE		ROSAMOND	CA	93560-7215
MARIA GONZALEZ	19005 NEARBROOK ST		CANYON CNTRY	CA	91351-3306
MARIA GRAHN	900 UNIVERSITY AVE		BURBANK	CA	91504-3034
MARIA HENRIQUEZ	3815 S WEST TEMPLE		SALT LAKE CITY	UT	84115-4412
MARIA HUANG	6135 TYRNBURY DR		LISLE	IL	60532-3200
MARIA LAUREYS	8349 MOJAVE AVE		ROSAMOND	CA	93560-7188
MARIA LOPEZ	14702 LAKESIDE ST		SYLMAR	CA	91342-3961
MARIA MELGOZA	8963 CAYUGA AVE		SUN VALLEY	CA	91352-2412
MARIA MIRANDA	513 S BURRIS AVE		COMPTON	CA	90221-3942
MARIA MORRIS	24196 TAMARISK AVE		BORON	CA	93516-1346
MARIA NICHOLS	PO BOX 257		ROSAMOND	CA	93560-0257
MARIA OLIVER	1808 DEVEREAUX DR		BURLINGAME	CA	94010-4642
MARIA PEREZ	801 JOHN BARROW RD STE 1		LITTLE ROCK	AR	72205-6599
MARIA PUNAY	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
MARIA QUINTERO	PO BOX 2200		ROSAMOND	CA	93560-2200
MARIA REED	1717 E AVENUE I	SPC 28	LANCASTER	CA	93535-2241
MARIA SALCEDO	1191 BROWNING BLVD		LOS ANGELES	CA	90037-1627
MARIA SANCHEZ	38952 2ND ST E		PALMDALE	CA	93550-3204
MARIA SILVA	1430 LONGHILL		HACIENDA HEIGHTS	CA	91745
MARIA STA ANA	1295 LA TREMOLINA LN		CORONA	CA	92879-8536
MARIA SUAREZ	16557 WHEELER RD		HELENDALE	CA	92342-9718
MARIA TAMAYO	2259 DWIGHT CT		ROSAMOND	CA	93560-5937
MARIA TELLO	828 ROSE AVE		VENICE	CA	90291-2832
MARIA TINITIGAN	3054 DELTA RD		SAN JOSE	CA	95135-1074
MARIA TRUJILLO	1530 SAN ANDRES ST		SANTA BARBARA	CA	93101-4104
MARIA URENA	14105 WEIDNER ST		ARLETA	CA	91331-4459
MARIA VASQUEZ	2603 VIA GENOVA		LANCASTER	CA	93535-2857
MARIA VILLAMOR	3836 REVERE AVE		LOS ANGELES	CA	90039-1635
MARIA ZEPEDA	2141 58TH ST W		ROSAMOND	CA	93560-6976

MARIAN DUNCAN	13011 CIMARRON AVE	GARDENA	CA	90249-1739
MARIANNE MILBURN	PO BOX 810	LITTLEROCK	CA	93543-0810
MARIBEL TRUJILLO	419 E MAITLAND ST	ONTARIO	CA	91761-3316
MARICELA RAMOS	PO BOX 2687	LANCASTER	CA	93539-2687
MARIE LOMBARDI	3601 SAUSALITO DR	CORONA DEL MAR	CA	92625-1642
MARIE WILLIAMSON	2764 60TH ST W	ROSAMOND	CA	93560-7135
MARIJA KNEZEVIC	624 W 17TH ST	SAN PEDRO	CA	90731-4717
MARILYN ARGO	10810 4 WINDS RD	JUNIPER HILLS	CA	93543-3644
MARILYN BIRDSALL	1680 KATEE LN	PALMDALE	CA	93550-9238
MARILYN BURGESS	14637 CASTLE BUTTE RD	NORTH EDWARDS	CA	93523-3203
MARILYN DRUMMOND	39201 COPRICE ST	PALMDALE	CA	93551-4479
MARILYN MOMENY	638 GROTON DR	BURBANK	CA	91504-2419
MARILYN SHERMAN	2010 W AVENUE K STE 825	LANCASTER	CA	93536-5229
MARINA ESCOBAR	3157 E AVENUE I # E	LANCASTER	CA	93535-2458
MARINA HOLLENDER	5334 LINDLEY AVE UNIT 317	ENCINO	CA	91316-2906
MARINA SUAREZ	5520 W DONGES BAY RD	MEQUON	WI	53092-4423
MARINO DI MATTIO	PO BOX 20	LANCASTER	CA	93584-0020
MARIO BALLES	42429 BUTTERSCOTCH LN	LANCASTER	CA	93536-4446
MARIO CRISTOBAL	4142 DAHLIA ST	LANCASTER	CA	93535
MARIO DEL ROSARIO	242 LILLEAN CT	VALLEJO	CA	94589-1880
MARIO GUTERREZ	2113 60TH ST W	ROSAMOND	CA	93560-6560
MARIO MARTINEZ	8742 LUCENT BLVD STE 300	HIGHLANDS RANCH	CO	80129-2386
MARIO PEREZ	6828 WUNDERLIN AVE	SAN DIEGO	CA	92114-2944
MARIO RAMIREZ	44051 90TH ST E	LANCASTER	CA	93535-8405
MARION MOESSNER	24262 SAGE AVE	BORON	CA	93516-1334
MARION MOSS	1049 CINNAMON RANCH RD	BISHOP	CA	93514-9481
MARION PARKER	3309 WALNUT AVE	MANHATTAN BCH	CA	90266-3551
MARISSA TONG	3 NORMANDIE	ALISO VIEJO	CA	92656-7064
MARITORENA LIVING TRUST	300 PANAMA RD	BAKERSFIELD	CA	93307-6261
MARIVIC LIM	19140 MERION DR	NORTHRIDGE	CA	91326-1835
MARJORIE WEAVER	478 HOWE AVE	SACRAMENTO	CA	95825-5507
MARK AUSTIN	1612 SUSSEX CT	PALMDALE	CA	93550-6998
MARK DAVIS	24374 SAGE AVE	BORON	CA	93516-1336
MARK DENSING	PO BOX 1512	ROSAMOND	CA	93560-1512
MARK DUELL	5350 HOLLISTER AVE STE F	SANTA BARBARA	CA	93111-2326
MARK EIFER	14050 E AVENUE Q	PALMDALE	CA	93591-2100
MARK EPPS	PO BOX 2036	ROSAMOND	CA	93560-2036
MARK GLANCEY	10423 NE 145TH ST	KIRKLAND	WA	98034-4333
MARK GROH	6204 EL DORADO AVE	ROSAMOND	CA	93560-6599
MARK GROH	6204 EL DORADO AVE	ROSAMOND	CA	93560-6599
MARK JOHNSTON	PO BOX 1345	LITTLEROCK	CA	93543-5345
MARK KING	67515 OAKRIDGE LN	MONTROSE	CO	81401-7472
MARK LOPEZ	24211 JOSHUA AVE	BORON	CA	93516-1322
MARK MONTGOMERY	PO BOX 27	VALYERMO	CA	93563-0027
MARK SIROTA	6650 BIRCHTON AVE	WEST HILLS	CA	91307-3203
MARK SMITH	PO BOX 5560	GLENDALE	CA	91221
MARK STAHOVICH	2638 57TH ST W	ROSAMOND	CA	93560-7254
MARK SUMPTER	24225 JOSHUA AVE	BORON	CA	93516-1322
MARK THOMPSON	46118 N 80TH WEST ST	LANCASTER	CA	93536
MARLIN MASON	7845 ELDER AVE	ROSAMOND	CA	93560
MARLIN ZIEL	28714 CRUTHERS CREEK RD	PEARBLOSSOM	CA	93553-3426
MARLINE PINA	PO BOX 272	LLANO	CA	93544-0272
MARSHALL PARKER	3309 WALNUT AVE	MANHATTAN BCH	CA	90266-3551
MARTA NOVOA	5594 SUE AVE	ROSAMOND	CA	93560-6986
MARTA VAN DAM	12715 BOBTAIL LN	ROSAMOND	CA	93560-7059
MARTHA CRAWFORD	17232 HOLLY DR	FONTANA	CA	92335-5831
MARTHA DELGADO	6432 ROADRUNNER AVE	ROSAMOND	CA	93560-6585
MARTHA KENYON	12346 SIERRA VIEW ST	BORON	CA	93516-1342
MARTHA NERIA	1501 SUMMIT CIR	FULLERTON	CA	92833-1716
MARTHA RODRIGUEZ	35820 106TH ST E	LITTLEROCK	CA	93543-2800
MARTHA STEPHANI	PO BOX 5802	LANCASTER	CA	93539-5802
MARTHA TSAKANIAS	683 GILWOOD AVE	LA PUENTE	CA	91744
MARTHA VELASQUEZ	14523 SW MILLIKAN WAY STE 200	BEAVERTON	OR	97005-2352
MARTHA VELAZQUEZ	24252 HIGH KNOB RD	DIAMOND BAR	CA	91765-4203
MARTI HAMPTON	3242 HONEYSUCKLE AVE	PALMDALE	CA	93550-1306
MARTIN DAYTON	45503 12TH ST W	LANCASTER	CA	93534-1413
MARTIN FORTE	527 FRANKLIN PL	MONROVIA	CA	91016-1519
MARTIN GJELSVIK	10557 HAMILTON RD	ROSAMOND	CA	93560-6936
MARTIN GOMEZ	1332 99TH ST W	ROSAMOND	CA	93560-7538
MARTIN INGRAM	15209 FONTHILL AVE	LAWNDALE	CA	90260-2436
MARTIN LANG	16520 KALISHER ST	GRANADA HILLS	CA	91344-3751
MARTIN LOPEZ	4939 N SAINT MALO AVE	COVINA	CA	91722-1030
MARTIN MC GOUGH	1865 60TH ST W	ROSAMOND	CA	93560-7370
MARTIN MUELLER	12020 JUNIPER HILLS RD	LITTLEROCK	CA	93543-4202
MARTIN NELSON	12011 SUSAN DR	GRANADA HILLS	CA	91344-2642
MARTIN ORVILLE R / MARTIN PAMELA B	17680 PANORAMA RD	LLANO	CA	93544
MARTIN POWARZYNSKI	47505 172ND ST W	LANCASTER	CA	93536-9000
MARTIN ROBLEDO	PO BOX 1881	ROSAMOND	CA	93560-1881
MARTIN TACK	1197 HUDSPETH ST	SIMI VALLEY	CA	93065-4559
MARTIN TURLEY	24228 TAMARISK AVE	BORON	CA	93516
MARTIN WHISLER	29828 104TH ST E	LITTLEROCK	CA	93543-3616
MARTINA BARAJAS	6501 IRVINE CENTER DR	IRVINE	CA	92618-2118
MARTINA MILLER	PO BOX 2671	LANCASTER	CA	93539-2671
MARTINEAU FRANK B / MARTINEAU FRANK B JR	10605 W AVENUE F	LANCASTER	CA	93536-9359
MARTINEZ ENEDINA	2548 W AVENUE F	LANCASTER	CA	93536-9566
MARTINEZ MARIA	40127 CASTANA LN	PALMDALE	CA	93551
MARTINEZ MARIANO / MARTINEZ FRANCES	40830 COBBLESTONE CT	PALMDALE	CA	93551-1849

MARTINEZ MARK	23030 W AVENUE C		LANCASTER	CA	93536-9278
MARTINEZ RANDOLPH J	43031 FLAG ST		LANCASTER	CA	93536-4651
MARVA HAWKINS	7635 ALMERIA AVE		FONTANA	CA	92336-1704
MARVIN ARRIOLA	15523 S DENVER AVE		GARDENA	CA	90248-2112
MARVIN CARTER	2237 CLYDE AVE		LOS ANGELES	CA	90016-1016
MARVIN CLARK	PO BOX 443		PEARBLOSSOM	CA	93553-0443
MARWAN CHAHAYED	18321 VENTURA BLVD STE 880		TARZANA	CA	91356-6433
MARY ALLANSON	PO BOX 206		LAKE HUGHES	CA	93532-0206
MARY CALLAHAN	1338 60TH ST W		ROSAMOND	CA	93560-6975
MARY CAMPBELL	PO BOX 88		VALYERMO	CA	93563-0088
MARY CARREON	6210 E AVENUE E		LANCASTER	CA	93535-7854
MARY COBBETT	PO BOX 1470		ROSAMOND	CA	93560-1470
MARY CRAIN	PO BOX 415		BORON	CA	93596-0415
MARY DEARBORN	2601 100TH ST W		ROSAMOND	CA	93560-7077
MARY DENNIS	43770 15TH ST W STE 125		LANCASTER	CA	93534-5200
MARY FAUGHT	9416 OLEMA ST		TEMPLE CITY	CA	91780-1341
MARY FELLOWS	12200 SIERRA VIEW ST		BORON	CA	93516-1340
MARY FONG	PO BOX 17933		SHREVEPORT	LA	71138-0933
MARY HALL	5318 W AVENUE L6		QUARTZ HILL	CA	93536-4444
MARY HARTLEY	4515 W AVENUE A		ROSAMOND	CA	93560
MARY ITOGA	445 KULIOUOU RD		HONOLULU	HI	96821-2232
MARY JARO	21972 YELLOWSTONE LN		LAKE FOREST	CA	92630-2325
MARY KELLY	PO BOX 82169		SAN DIEGO	CA	92138-2169
MARY LIZOTTE	21549 BANCROFT DR		CALIF CITY	CA	93505-1443
MARY LOPEZ	8812 LIME AVE		CALIF CITY	CA	93505-3425
MARY MARTINEZ	PO BOX 268		LITTLEROCK	CA	93543-0268
MARY MILLER	8016 SWEETSER RD		ROSAMOND	CA	93560-7156
MARY MOFFETT	10434 PIUTE RD		JUNIPER HILLS	CA	93543-4241
MARY MOSES	9442 SOMERSET BLVD		BELLFLOWER	CA	90706-3009
MARY MURPHEY	6355 E AVENUE H		LANCASTER	CA	93535-7802
MARY PARE	2935 DAVENPORT ST		ROSAMOND	CA	93560-7513
MARY PARRISH	5517 E AVENUE L		LANCASTER	CA	93535-8204
MARY SORIANO	1995 DEL CIERVO PL		CAMARILLO	CA	93012-4067
MARY THURSTON	36300 SIERRA HWY		PALMDALE	CA	93550-9340
MARY VANDERHOPE	14760 BIG SKY DR		PEARBLOSSOM	CA	93553-3436
MARY WILLHITE	22847 W AVENUE D STE 6		LANCASTER	CA	93536-9262
MARY WOODHULL	2057 100TH ST W		ROSAMOND	CA	93560-7054
MASAYUKI WATANABE	16416 GREGORIO DR		HACIENDA HEIGHTS	CA	91745-4937
MASTIN STEPHEN	7730 W AVENUE J		LANCASTER	CA	93536-7608
MATHER HOYT / MATHER YADIRA	30810 106TH ST E		JUNIPER HILLS	CA	93543-3660
MATHIESON PAMELA	11316 LINDA MESA RD		LITTLEROCK	CA	93543-4246
MATHIS STEVEN R / MATHIS MARYANN	4608 CINNABAR AVE		PALMDALE	CA	93551-1852
MATLOCK	25830 CHERRYHILL DR		BORON	CA	93516-1203
MATSON BRADLEY F / MATSON NINA M	28749 121ST ST E		LITTLEROCK	CA	93543-4205
MATTHEW LEONE	4712 67TH ST W		ROSAMOND	CA	93560-9003
MATTHEW RAHIMZADEH	PO BOX 2944		CANYON CNTRY	CA	91386-2944
MATTIE BURGESS	12300 SIERRA VIEW ST		BORON	CA	93516-1342
MATTIE DAISY	24224 JOSHUA AVE		BORON	CA	93516-1323
MAURA RAMIREZ	6501 IRVINE CENTER DR		IRVINE	CA	92618-2118
MAUREEN ZUBIK	36553 VISTA DEL LAGO ST		PALMDALE	CA	93551-7969
MAX VAN RUNKLE	19110 PANORAMA RD.		VALYERMO	CA	93563
MAX VANRUNKLE	PO BOX 98		VALYERMO	CA	93563-0098
MAXEY KENNETH M JR / MAXEY TRUST	43939 MUNZ RANCH RD		LAKE HUGHES	CA	93532-1206
MAY STIRES	1633 WABASSO WAY		GLENDALE	CA	91208-2440
MAY TONG	47603 224TH ST W		LANCASTER	CA	93536-9107
MAYORGA ZENON / MAYORGA MARTHA S	10820 4 WINDS RD		LITTLEROCK	CA	93543-3644
MC CRACKEN	2977 DORHAM CT		SIMI VALLEY	CA	93065-5203
MCCALMAN MARK S / MCCALMAN CONSTANCE	6817 W AVENUE H12		LANCASTER	CA	93536-8398
MCCARLEY ALICE M / WALKER ROEE C	45320 95TH ST W		LANCASTER	CA	93536-8003
MCCLUNG DONAN L JR / MCCLUNG YVETTE R	18343 W AVENUE F		LANCASTER	CA	93536-9060
MCCLURE DEBRA / BURTON CAROL C	39601 220TH ST E		PALMDALE	CA	93591-4103
MCCORMICK BRIAN R / MCCORMICK BETTY E	45528 60TH ST W		LANCASTER	CA	93536-8321
MCDONALD GEORGE L / MCDONALD KATHRYN	6849 W AVENUE H12		LANCASTER	CA	93536-8326
MCELHANEY ANDREW / NAIDITCH GAY E	31306 235TH ST E		LLANO	CA	93544-1536
MCGARRY JOHN A JR / MCGARRY GAYLEEN M	5163 E AVENUE F		LANCASTER	CA	93535-7817
MCGEE MICHAEL	20807 KINGSCREST DR		SAUGUS	CA	91350-1928
MCGUINNESS EVELYNN R	23501 W AVENUE D		LANCASTER	CA	93536-9259
MCMILLAN CHRISTOPHER A	MCMILLAN REBECCA	4150 W AVENUE D8	LANCASTER	CA	93536-9503
MCNEIL ALBERT / MCNEIL GILDA	44008 42ND ST W		LANCASTER	CA	93536-5869
MCNUTT FREDERICK J / MCNUTT SUSAN L	46057 70TH ST W		LANCASTER	CA	93536-8508
MEDINA ELIZABETH M	18630 E AVENUE Q		PALMDALE	CA	93591-4310
MEDLIN CHRISTINE R	33616 185TH ST E		LLANO	CA	93544-1422
MELANIE CHRISTIANSEN	PO BOX 166		ROSAMOND	CA	93560-0166
MELANIE CHRISTIANSEN	PO BOX 416		ROSAMOND	CA	93560-0416
MELANIE MONTARIL	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
MELCHERS LIVING TR	PO BOX 1468		ROSAMOND	CA	93560-1468
MELEK CHRISTINA R	40803 GRANITE ST		PALMDALE	CA	93551-1806
MELVILLE ROBERT S / MELVILLE LISA J	37109 THE GRVS		PALMDALE	CA	93551-6233
MELVIN ENGLISH	24169 JOSHUA AVE		BORON	CA	93516-1320
MELVIN HANNAH	21276 WHITE PINE DR SPC 92		TEHACHAPI	CA	93561-9533
MELVIN MORRIS	11618 HAAS AVE		HAWTHORNE	CA	90250-1928
MEMBRENO JOSE	37135 THE GRVS		PALMDALE	CA	93551-6233
MENTER MARY C / DANIELS DANNIE L	7324 W AVENUE J		LANCASTER	CA	93536-7611
MERCEDES ESCOBAR	3300 83RD ST W		ROSAMOND	CA	93560
MERCER TERISA R	30543 LARGO VISTA RD		LLANO	CA	93544-1443
MEREDITH POPE	25022 CORIANDER CT		STEVENSON RNH	CA	91381-2215
MERELENE GINTZ	3446 S TWILIGHT ECHO RD		TUCSON	AZ	85735-5125

MERLIN PINNELL	24650 BOBTAIL LN	LANCASTER	CA	93536-9604
MERRILLYN WILSON	6012 SULTANA AVE	TEMPLE CITY	CA	91780-1549
MERRY COMM PROP TR	23750 KILLION ST	WOODLAND HILLS	CA	91367-5822
MERRY WILLIAM	4523 PARK VERONA	CALABASAS	CA	91302-1779
METTER RODNEY A / METTER WANDA S	3151 E AVENUE H	LANCASTER	CA	93535-1607
MEYER HANS PETER & IPBI KIM	14116 SE 44TH ST	BELLEVUE	WA	98006-2334
MEYER LESLIE / FRAZIER MELINDA	47721 222ND ST W	LANCASTER	CA	93536-9116
MIAN KASHIF S	2427 PLUMERIA LN	PALMDALE	CA	93551
MICHAEL AIREY	23818 W AVENUE D12	LANCASTER	CA	93536-9118
MICHAEL BEAN	PO BOX 1165	SANTAQUIN	UT	84655-1165
MICHAEL BOHUSZ	3934 KENTUCKY DR	LOS ANGELES	CA	90068-1251
MICHAEL BOOTT	7547 NEWCASTLE AVE	RESEDA	CA	91335-3250
MICHAEL BRAUN	19421 ORIENTE DR	YORBA LINDA	CA	92886-2725
MICHAEL BROWN	1658 FALL CT	ROSAMOND	CA	93560-6547
MICHAEL BURTON	PO BOX 7	HASTINGS	OK	73548-0007
MICHAEL CANADA	24192 SAGE AVE	BORON	CA	93516-1332
MICHAEL COUNTER	24438 SAGE AVE	BORON	CA	93516-1338
MICHAEL DUMIN	PO BOX 1348	ROSAMOND	CA	93560-1348
MICHAEL EHLERT	3 OLYMPIA	IRVINE	CA	92604-1929
MICHAEL FEJES	11508 LINDA MESA RD	LITTLEROCK	CA	93543-4223
MICHAEL FORD	7485 NEW HORIZON WAY BLDG 3	FREDERICK	MD	21703-8388
MICHAEL FORDICE	PO BOX 8	VALYERMO	CA	93563-0008
MICHAEL GARCIA	12469 DEL ORO ST	BORON	CA	93516-1355
MICHAEL GARRETT	1757 TAPO CANYON RD # 88	SIMI VALLEY	CA	93063-3391
MICHAEL GELARDO	24164 SAGE AVE	BORON	CA	93516-1332
MICHAEL GONZALES	6843 ELDER AVE	ROSAMOND	CA	93560-7282
MICHAEL HAVAS	PO BOX 801474	SANTA CLARITA	CA	91380-1474
MICHAEL HESSELTON	4576 SWEETSER RD	ROSAMOND	CA	93560-6450
MICHAEL J. RAYFIELD	37300 VERBENA COURT	PALMDALE	CA	93551-6198
MICHAEL JACKSON	PO BOX 2022	ROSAMOND	CA	93560-2022
MICHAEL KIRSCH	11740 WILSHIRE BLVD APT A1609	LOS ANGELES	CA	90025-6522
MICHAEL LACROIX	PO BOX 500130	LAKE LOS ANGELES	CA	93550-0130
MICHAEL LAWRENCE	7155 W AVENUE J	LANCASTER	CA	93536-7612
MICHAEL LEWIS	28400 CRUTHERS CREEK RD	PEARBLOSSOM	CA	93553-3420
MICHAEL LOUGHRY	80 FOREST VIEW DR	SAN FRANCISCO	CA	94132-1443
MICHAEL LYTLE	368 55TH ST W	ROSAMOND	CA	93560-6542
MICHAEL MACALUSO	3726 VIA LAS VILLAS	OCEANSIDE	CA	92056-7249
MICHAEL MACKAY	53 127TH ST W	ROSAMOND	CA	93560-8201
MICHAEL MANNING	99 WYOMING ST	BOULDER CITY	NV	89005-2803
MICHAEL MCCARY	1757 TAPO CANYON RD	SIMI VALLEY	CA	93063-3391
MICHAEL MCLAUGHLIN	0 HCI BOX 690	ELGIN	AZ	85611
MICHAEL PHILLIPS	5304 GARDENDALE LN	PALMDALE	CA	93551-2757
MICHAEL PLANTE	PO BOX 2106	ROSAMOND	CA	93560-2106
MICHAEL RAMSEY	6828 WUNDERLIN AVE	SAN DIEGO	CA	92114-2944
MICHAEL ROBBINS	5048 61ST ST W	ROSAMOND	CA	93560-6463
MICHAEL SEGAL	1426 STATE HIGHWAY 58	MOJAVE	CA	93501-1961
MICHAEL SELDITCH	270 JAY ST APT 16E	BROOKLYN	NY	11201-1951
MICHAEL SMITH	47052 5TH ST W	LANCASTER	CA	93534-7501
MICHAEL SUPPE	18030 GASKELL RD	ROSAMOND	CA	93560-7194
MICHAEL THERIAULT	PO BOX 800253	SANTA CLARITA	CA	91380-0253
MICHAEL TINITIGAN	3054 DELTA RD	SAN JOSE	CA	95135-1074
MICHAEL TODD	9764 SAMOA AVE	TUJUNGA	CA	91042-3122
MICHAEL TOWNLEY	15956 LIVE OAK SPRINGS CANYON RD	CANYON COUNTRY	CA	91387-3621
MICHAEL WELSH	35720 47TH ST E	PALMDALE	CA	93552-6331
MICHAEL YOST	3608 GOLD STONE LN	ROSAMOND	CA	93560-6808
MICHELE DE LANO	2860 100TH ST W	ROSAMOND	CA	93560-7076
MICHELE HILL	5656 ELIZABETH LAKE RD	LEONA VALLEY	CA	93551-7504
MICHELE MORGAN	PO BOX 1090	ROSAMOND	CA	93560-1090
MICHELE RHODEN	PO BOX 810	PEARBLOSSOM	CA	93553-0810
MICHELE ROTONDO	20 SUMMERFIELD ST	THOUSAND OAKS	CA	91360-2916
MICHELE SILMON	14814 CASTLE BUTTE RD	NORTH EDWARDS	CA	93523-3247
MICHELLE BUTCHER	PO BOX 720193	PINON HILLS	CA	92372-0193
MICHELLE CALDERA	PO BOX 606	ROSAMOND	CA	93560-0606
MICHELLE DIAZ	3141 W AVENUE M2	LANCASTER	CA	93536-2840
MICHELLE EPPS	PO BOX 2423	ROSAMOND	CA	93560-2423
MICHELLE FLANAGAN	9241 W AVENUE A	ROSAMOND	CA	93560-7083
MICHELLE OLGUIN	14839 NEEDLES ST	NORTH HILLS	CA	91343-2431
MICHELLE PALMQUIST	12490 EL MIRAGE ST	BORON	CA	93516-1353
MICHELLE PERRY	41337 ALMOND AVE	PALMDALE	CA	93551-2841
MICHELLE PIOUS	4254 N IRVING ST	KINGMAN	AZ	86409-2620
MICHELLE THOMPSON	46118 N 80TH WEST ST	LANCASTER	CA	93536
MICK LARRY G	10909 E JUNIPER HILLS RD	LITTLEROCK	CA	93543
MICKEY ODEN	PO BOX 845	SILETZ	OR	97380-0845
MID OHIO SEC. CORP. CSTDN	5656 STOCKTON LOOP	LIVERMORE	CA	94550-7382
MIDDLE BUTTES PARTNERS LTD	PO BOX 20	LANCASTER	CA	93584-0020
MIDDLETON CHARLES A	8418 W AVENUE A	ROSAMOND	CA	93560-7291
MIGUEL ACEVEDO	2578 ELLIOT CT	SANTA CLARA	CA	95051-1849
MIGUEL RAMOS	PO BOX 2687	LANCASTER	CA	93539-2687
MIGUEL RODRIGUEZ	35820 106TH ST E	LITTLEROCK	CA	93543-2800
MILAGROS GONZALEZ	1245 BROAD AVE	WILMINGTON	CA	90744-2619
MILANA VIII LLC AND	2445 STANLEY	TUSTIN	CA	92782-1275
MILBOURNE EARL F	3336 W AVENUE H	LANCASTER	CA	93536-8335
MILBOURNE JOHN H / MILBOURNE FAMILY	2738 W AVENUE H	LANCASTER	CA	93536-8336
MILDRED ASHPAUGH	2797 MAGNOLIA ST	CAMARILLO	CA	93012-8044
MILDRED BALL	430 OAKGLEN CT	SAN DIMAS	CA	91773-3260
MILDRED BEARDEN	24263 JOSHUA AVE	BORON	CA	93516-1322
MILDRED KLING	18418 SANTA ISADORA ST	FOUNTAIN VLY	CA	92708-5525

MILLARD LEWIS	3604 PRINCETON AVE		DALLAS	TX	75205-3249
MILLER BRET	45557 MUNZ RANCH RD		LANCASTER	CA	93536-9036
MILLER ERWIN L / MILLER ROSA L	45520 60TH ST W		LANCASTER	CA	93536-8321
MILLER LEONARD	24227 HERITAGE LN		NEWHALL	CA	91321-3562
MILLS RICHARD J / MILLS PAMELA	47044 5TH ST W		LANCASTER	CA	93534-7501
MILTON BURBANO	1665 SW 116TH AVE		PEMBROKE PINES	FL	33025-3758
MIN DO CHONG / YON SUK CHAE	27500 LARGO VISTA RD		VALYERMO	CA	93563-1004
MIN DO CHONG / YON SUK CHAE	20033 BIG PINES HWY		VALYERMO	CA	93563-1002
MINDLIN YUNA	6056 SUNNYCREST DR		OAK PARK	CA	91377-3846
MINDY LUCAS	20336 BASSETT ST		WINNETKA	CA	91306-3506
MINDY NGUYEN	914 ROSITA ST		SANTA ANA	CA	92703-1531
MINE MNRL PRCS WRKRS BLDG ASSN	24001 CHAPARRAL AVE		BORON	CA	93516-1301
MINNIE COOK	PO BOX 2175		ROSAMOND	CA	93560-2175
MINNIE WHEAT	263 PICTORIAL ST		PALMDALE	CA	93550-3025
MIRIAM SANCHEZ	4103 LAYMAN AVE		PICO RIVERA	CA	90660-1714
MIRNA TERAN	40817 RIVEROCK LN		PALMDALE	CA	93551-1203
MISTY JACOBY	13015 W RANCHO SANTA FE BLVD	APT 2153	AVONDALE	AZ	85392-1743
MITCHEL DANE	PO BOX 6386		LANCASTER	CA	93539-6386
MITCHEL NAKAAHIKI	24286 JUNIPER AVE		BORON	CA	93516-1329
MITCHELL KENNY L / MITCHELL JOANNA M	3350 TWINCREEK CT		PALMDALE	CA	93551-1080
MITCHELL OLIVER	1808 DEVEREAUX DR		BURLINGAME	CA	94010-4642
MITRA GASSEMI	1602 CHURCH ST		SIMI VALLEY	CA	93065-3979
MITZI BARNES	45460 070 ST W		LANCASTER	CA	93536
MOHAMMAD DAOOD	18154 MEDLEY DR		ENCINO	CA	91316-4446
MOHAMMAD SARAIPOUR	PO BOX 943		LAWNDALE	CA	90260-0943
MOHAMMED IRAN	42302 ENCANTO WAY		QUARTZ HILL	CA	93536-3765
MOJAVE DESERT BK	15773 K ST		MOJAVE	CA	93501-1708
MOJAVE DESERT BK	15773 K ST		MOJAVE	CA	93501-1708
MOLLIE MC PHERSON	5921 WILLOW AVE		ROSAMOND	CA	93560-7235
MONICA CHEVEZ	9871 SAHARA AVE		ROSAMOND	CA	93560-7066
MONICA GARCIA	171 CAGEL ST		ROSAMOND	CA	93560-6906
MONTGOMERY MELANIE N	37309 THE GRVS		PALMDALE	CA	93551-6236
MONTGOMERY STARKS	620 NE 2ND ST		OKLAHOMA CITY	OK	73104-6610
MOON CHANG	3671 W 6TH ST		LOS ANGELES	CA	90020-3026
MOONEY JOHN T / MOONEY TARA	18405 W AVENUE F4		LANCASTER	CA	93536-9045
MOORE ARTHUR S / MOORE DELILAH K	31000 233RD ST E		LLANO	CA	93544-1503
MOORE FAMILY 1991 TRUST	14215 JONES RD		FALCON	CO	80831-8131
MOORE SANDRA J	10665 W AVENUE J		LANCASTER	CA	93536-7718
MOREL MARTIN G / MOREL SINA	16617 PEARBLOSSOM HWY		LLANO	CA	93544-1143
MORGA VENANCIO / MORGA SOCORRO	6175 HOLIDAY AVE		ROSAMOND	CA	93560-6519
MORGAN BARNES	605 S AVENUE 60		LOS ANGELES	CA	90042-4304
MORGAN RUSSELL B / MORGAN TRUDY A	30553 LARGO VISTA RD		LLANO	CA	93544-1443
MORRIS WAYNE R SR / MORRIS WAYNE SR	6507 W AVENUE G		LANCASTER	CA	93536
MOUNTAIN BROOK RANCH LLC	PO BOX 900697		PALMDALE	CA	93590-0697
MOUTH OF HIDDEN VALLEY LLC	PO BOX 2567		ROSAMOND	CA	93560-2567
MULLENS DOUGLAS E / MULLENS TERESA L	46920 67TH ST W		LANCASTER	CA	93536-8516
MULLIN MARCIA L	815 PARK DR		SHERIDAN	WY	82801-2326
MUNZ BARRY S / MUNZ TERRY ; KATHLEEN M	12701 LANCASTER RD		LANCASTER	CA	93536-9014
MUNZ REVA R / FAMILY REVA	45715 MUNZ RANCH RD		LANCASTER	CA	93536-9035
MURIEL POLAR	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
MURPHY WILLIAM A / MURPHY TRUST	27701 LARGO VISTA RD		VALYERMO	CA	93563-1005
MUSTAFA SHAGROON	8282 CALVINE RD APT 1105		SACRAMENTO	CA	95828-9320
MYERS CLAYTON N / MYERS MICAELA A	9720 E AVENUE G10		LANCASTER	CA	93535-8425
MYNEAR GERTRUD V	48999 212TH ST W		LANCASTER	CA	93536-9101
MYONG BOYADJIAN	1600 KAPIOLANI BLVD # 930		HONOLULU	HI	96814-3801
MYOUNG LEE	3612 EASTFIELD RD		CARMEL	CA	93923-9452
MYRIAM CALVERT	8844 ARDENDALE AVE		SAN GABRIEL	CA	91775-1904
MYRON MAKI	PO BOX 1044		STERLING	AK	99672-1044
MYRTLE JACKSON	PO BOX 2328		ROSAMOND	CA	93560-2328
MYUNG SOOK LEE	8908 WILSON RANCH RD		PHELAN	CA	92371-7230
NADIM MAIDA	350 DELAWARE DR		VENTURA	CA	93001-1219
NADINE STERBA	27720 MANSFIELD CT		VALENCIA	CA	91354-1623
NAHAPET BOYADJIAN	1600 KAPIOLANI BLVD # 930		HONOLULU	HI	96814-3801
NAN CARDER	6120 E AVENUE G		LANCASTER	CA	93535-7809
NANCY AMAYA	24072 CHAPARRAL AVE		BORON	CA	93516-1302
NANCY BEAZEL	9740 E AVENUE G10		LANCASTER	CA	93535-8425
NANCY COVERDILL	28650 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553
NANCY DOWDY	12321 SIERRA VIEW ST		BORON	CA	93516-1341
NANCY GILBERT	6851 W AVENUE I		LANCASTER	CA	93536-8319
NANCY GRABE	PO BOX 57		PEARBLOSSOM	CA	93553-0057
NANCY HITT	PO BOX 1779		ROSAMOND	CA	93560-1779
NANCY KIMBROUGH	4635 SWEETSER RD		ROSAMOND	CA	93560-6454
NANCY LARSON	22217 233RD AVE SE		MAPLE VALLEY	WA	98038-8411
NANCY LEE	435 S CURSON AVE	APT 10J	LOS ANGELES	CA	90036-5239
NANCY MCLAUGHLIN	0 HCI BOX 690		ELGIN	AZ	85611
NANCY RANKIN	7226 DAWN RD		ROSAMOND	CA	93560-6458
NANCY RICHARDSON	16761 FOOTHILL AVE		NORTH EDWARDS	CA	93523-3535
NANCY SWINDLEHURST	24405 TAMARISK AVE		BORON	CA	93516-1351
NAPIER ROBERT M / NAPIER HSIAO H	39447 DUON LN		PALMDALE	CA	93551
NARCILE PINA	12201 SIERRA VIEW ST		BORON	CA	93516-1339
NAREERATN JOTIKASTHIRA	28304 MOUNT STEPHEN AVE		CANYON CNTRY	CA	91387-3141
NASIR M R	1403 N FAIR OAKS AVE	STE 2	PASADENA	CA	91103-1893
NATALIE HULSE	38701 BANYAN PL		MORENO VALLEY	CA	92551
NATHANIEL BROWN	13445 FRAN ST		NORTH EDWARDS	CA	93523-3424
NATIONAL CITY BANK	150 ALLEGHENY CENTER MALL		PITTSBURGH	PA	15212-5335
NATIONSTAR MORTGAGE LLC	350 HIGHLAND DR		LEWISVILLE	TX	75067-4177
NATIONWIDE ASSET MANAGEMENT LP	8721 SANTA MONICA BLVD STE 1019		LOS ANGELES	CA	90069-4507

NEAL	PO BOX 1411		ROSAMOND	CA	93560-1411
NEIL REMINGTON	PO BOX 6336		SAN PEDRO	CA	90734-6336
NELLIE ANDERSON	25062 ATWOOD BLVD		NEWHALL	CA	91321-3402
NELLIE LANK	PO BOX 136		BORON	CA	93596-0136
NELSON CHACON	5623 CASITA CT		PALMDALE	CA	93552-4659
NELSON ESTHER	36524 W JONES AVE		TONOPAH	AZ	85354-7570
NELSON NONI J	2033 W AVENUE K10		LANCASTER	CA	93536-4608
NENA CO	910 EUCLID AVE APT 82		NATIONAL CITY	CA	91950-3839
NEOMI LYNCH	13120 BRADLEY AVE	SPC 3	SYLMAR	CA	91342-0686
NEVILLE SOLOMON	1400 COLUMBIA AVE		ALAMOGORDO	NM	88310-8016
NEW LIFE CHR OF GOD IN CHRIST	PO BOX 1585		ROSAMOND	CA	93560-1585
NEWCOMER JACOB C III / NEWCOMER BEVERLY	47141 167TH ST W		LANCASTER	CA	93536-9044
NEWHALL WIRE INC	12240 JOLETTE AVE		GRANADA HILLS	CA	91344-1630
NGOC TRAN	19351 HICKORY LN		HUNTINGTN BCH	CA	92646-2746
NGUYEN LAP QUOC	14850 PURCHE AVE		GARDENA	CA	90249-3743
NHAN NGO	1798 QUIMBY RD		SAN JOSE	CA	95122-1236
NICHOLAS LAGATUTTA	31 S ELLIS PL		NEWBURY PARK	CA	91320-4506
NICHOLAS SMITH	24159 SAGE AVE		BORON	CA	93516-1331
NICHOLAS TOTH	34270 CHESEBORO RD		PALMDALE	CA	93552-6505
NICHOLAS VALASQUEZ	762 70TH ST W		ROSAMOND	CA	93560-7034
NICK MELNIKOFF	1305 N BASCOM AVE STE 1		SAN JOSE	CA	95128-1248
NICOLAS CORDOBA	25186 PATTERSON RD		LANCASTER	CA	93536-9606
NICOLE CARNEY	1401 99TH ST W		ROSAMOND	CA	93560-7090
NICOLE DYER	8301 MOJAVE AVE		ROSAMOND	CA	93560-7188
NIGEL HOLLY	PO BOX 902586		PALMDALE	CA	93590-2586
NINA GASS	37304 DEL MAR ST		PALMDALE	CA	93552-4666
NINA WILSON	18100 W AVENUE F		LANCASTER	CA	93536-9058
NIPA KAEWIMONRAT	1600 N BRONSON AVE	APT 34	LOS ANGELES	CA	90028-9202
NOELIA ECHESABAL	11611 AYRES AVE		LOS ANGELES	CA	90064-2905
NOELIA MONROY	PO BOX 2980		LANCASTER	CA	93539-2980
NOLET EARL	41016 150TH ST E		LANCASTER	CA	93535-7013
NOMURA CREDIT AND CAPITAL INC	3374 WALDEN AVE	# 120	DEPEW	NY	14043-2437
NORA DENNIS	PO BOX 1150		PACIFIC PALISADES	CA	90272-1150
NORBERTO ALEJOS	10342 WOODROSE AVE		SANTEE	CA	92071-1702
NORDBLOM ROY H / NORDBLOM NORMA	48903 120TH ST E		LANCASTER	CA	93535-8013
NORMA BLACK	PO BOX 1088		ROSAMOND	CA	93560-1088
NORMA CARTER	2110 4TH ST	APT 17	SANTA MONICA	CA	90405-2343
NORMA DEVEAUX	1113 S SYCAMORE AVE		LOS ANGELES	CA	90019-1532
NORMA THOMPSON	PO BOX 3365		QUARTZ HILL	CA	93586-0365
NORMAN EASTWOOD	27 PACKET RD		RCH PALOS VRD	CA	90275-5827
NORMAN LIZOTTE	21549 BANCROFT DR		CALIF CITY	CA	93505-1443
NORMAN REED	14411 BRIGHTSTAR AVE		ROSAMOND	CA	93560-7099
NORMAN THOMPSON	8950 DALTON AVE		LOS ANGELES	CA	90047-3630
NORMANS NURSERY INC	8665 DUARTE RD		SAN GABRIEL	CA	91775-1139
NORMANS NURSERY INC	8665 DUARTE RD		SAN GABRIEL	CA	91775-1139
NORTH GATE DEVELOPMENT LLC	11524 ZAGAROLO LN		LAS VEGAS	NV	89141-3226
NORTON JAMES	6200 SUNSET RIDGE RD		GOLETA	CA	93117-1786
NOWAK CHESTER / NOWAK MARY J	42049 67TH ST W	APT B	LANCASTER	CA	93536-3837
NUNN SHIRLEY A	39362 185TH ST E		PALMDALE	CA	93591-4319
NUSRAT KHAN	3950 W 226TH ST APT 71		TORRANCE	CA	90505-2357
NUTAN PAWA	15623 LUCILLE CT		CANYON COUNTRY	CA	91387-4438
NYE JAMES D / NYE DIANE L	8690 E AVENUE F		LANCASTER	CA	93535-7926
OAK VIEW PROPERTIES INC	750 SPRING ST		OAK VIEW	CA	93022-9715
OBERG JOHN S / OBERG LAURA G	47106 70TH ST E		LANCASTER	CA	93535-7838
OCEAN LN I	1785 HANCOCK ST STE 100		SAN DIEGO	CA	92110-2051
ODIS SNEED	29757 CROMWELL AVE		CASTAIC	CA	91384-4611
OFELIA CARLOS	3002 ALSACE AVE		LOS ANGELES	CA	90016-3802
OGDEN RICKY	9222 E AVENUE E		LANCASTER	CA	93535-7934
OK HONG YOUNG	31888 DEL OBISPO ST STE C10		SAN JUAN CAPO	CA	92675-3700
OLAF LANDSGAARD	PO BOX 2567		ROSAMOND	CA	93560-2567
OLGA ENGEL	7334 E BLACK ROCK RD		SCOTTSDALE	AZ	85255-6108
OLGA FIORELLA	1738 N AVON ST		BURBANK	CA	91505-1503
OLGA FRAGOSO	14181 GRAMMAR PL		PANORAMA CITY	CA	91402-3234
OLGA HUERTA	40104 166TH ST E		PALMDALE	CA	93591-3039
OLIN DERRICK	8847 E AVENUE G12		LANCASTER	CA	93535-7905
OLIVAREZ TONY / OLIVAREZ ROBIN	2305 EVENING PRIMROSE AVE		PALMDALE	CA	93551-4184
OLIVEIRA JEFFREY	43030 FAIRLEE DR		LANCASTER	CA	93536-4605
OLIVER JAMES E JR / CLEMENS WENDY L	45249 80TH ST W		LANCASTER	CA	93536-8119
OLIVIA REYNOLDS	29867 WISTERIA VALLEY RD		SANTA CLARITA	CA	91387-1942
OLMEDO FRANCISCO / AVELAR MARIA R	8060 E AVENUE H		LANCASTER	CA	93535-7900
OLSEN ANDREW S ; MIRIAM D / OLSEN TRUST	4544 CINNABAR AVE		PALMDALE	CA	93551-1854
OLSEN NATHANIEL II / OLSEN DIANE	12050 JUNIPER HILLS RD		JUNIPER HILLS	CA	93543-4202
OMY TRINIDAD	40928 GRANITE ST		PALMDALE	CA	93551-1809
ONG MINH	PO BOX 6314		ROSEMEAD	CA	91770-6314
OOKIE LEE	25269 THE OLD RD STE B		STEVENSON RANCH	CA	91381-2202
OPAL BOWER	21409 ADAM DR		TEHACHAPI	CA	93561-8817
ORBY ENDSLEY	PO BOX 720006		PINON HILLS	CA	92372-0006
ORDWAY STEVE P	12401 LE PAGE RANCH RD		PEARBLOSSOM	CA	93553-3478
OREATHA JOSEPH	13131 EUSTACE ST		ARLETA	CA	91331-1044
ORLANDO LOPEZ	1121 L ST FL 7		SACRAMENTO	CA	95814-3970
ORTIZ FAMILY LLC	417 ANDRUSS PL		MONTEBELLO	CA	90640-3729
ORTIZ FRANK D	12747 E AVENUE E		LANCASTER	CA	93535-8004
ORTIZ WENDY	9159 W AVENUE A		ROSAMOND	CA	93560-7088
OSCAR MAGDALENO	2075 BAYWOOD CT	APT 157	LANCASTER	CA	93536-7291
OSLING EURIMICA M / OSLING MORRELL A	44629 JEFFERSON ST		LANCASTER	CA	93535-2839
OSTORGA LEONIDAS / AVELENDA CARLA	44647 JEFFERSON ST		LANCASTER	CA	93535-2839
OSVALDO ORTIZ	4871 COLUMBIA WAY		LANCASTER	CA	93536-2908

OTHON ESPINOZA	2944 65TH ST W		ROSAMOND	CA	93560-6925
OTILIA FENNELL	8408 SWEETSER RD		ROSAMOND	CA	93560-7096
OTIS DAVID E / OTIS SALLY A	12635 MURPHYS LN		PEARBLOSSOM	CA	93553-3443
OTTO BERTHELSEN	PO BOX 215		YARNELL	AZ	85362-0215
OWEN RICK A	207 E AVENUE F10		LANCASTER	CA	93535-6408
P S C RANCHES INC	50235 N 00082 ST WEST		LANCASTER	CA	93536
PABLO DUARTE	6901 E WILLIAMS CIR		ANAHEIM	CA	92807-5121
PABLO UNABIA	1841 S WOOSTER ST		LOS ANGELES	CA	90035-4334
PADGETT GERALD L / PADGETT ANTOINETTE M	7554 W AVENUE J		LANCASTER	CA	93536-7610
PADILLA IMELDA G / PADILLA SERGIO G	44667 31ST ST W		LANCASTER	CA	93536-8367
PADILLA RAMIRO / PADILLA IRMA	9051 E AVENUE E		LANCASTER	CA	93535-7936
PALMS LANCASTER	7116 VALJEAN AVE		VAN NUYS	CA	91406-3901
PAMELA ANYADIKE	537 S FLOWER ST	APT 2	INGLEWOOD	CA	90301-5596
PAMELA DENTON	430 55TH ST W		ROSAMOND	CA	93560-6968
PAMELA LOGAN	31969 EMERALD LN		CASTAIC	CA	91384-3102
PAMELA OLSEN	PO BOX 1526		ROSAMOND	CA	93560-1526
PAMELA RHODESROGERS	PO BOX 6198		LANCASTER	CA	93539-6198
PAMELA RICHARDSON	5420 62ND ST W		ROSAMOND	CA	93560-6254
PAMELA TURK	PO BOX 865		PEARBLOSSOM	CA	93553-0865
PAMELA TURLEY	24228 TAMARISK AVE		BORON	CA	93516
PAMELLA ZAMRZLA	48910 80TH ST W		LANCASTER	CA	93536-8740
PANFILO CASTILLO	1358 100TH ST W		ROSAMOND	CA	93560-7267
PANKAJ PATEL	PO BOX 1207		ROSAMOND	CA	93560-1207
PANNA ARORA	5936 LEMP AVE		N HOLLYWOOD	CA	91601-1025
PANNA PATEL	2076 W ROSAMOND BLVD		ROSAMOND	CA	93560-7693
PARAMO GABRIEL G	18753 E AVENUE R8		PALMDALE	CA	93591-4302
PARKER ARTHUR	20635 E AVENUE Q12		PALMDALE	CA	93591-4504
PARRISH MARY	5517 E AVENUE L		LANCASTER	CA	93535-8204
PARVANEH KADIVAR	1083 N HILLCREST RD		BEVERLY HILLS	CA	90210-2612
PASCO REV TR	1733 LORENZEN DR		SAN JOSE	CA	95124-1741
PASSMORE RICHARD A JR	9956 CIMA MESA RD		JUNIPER HILLS	CA	93543-3656
PAT MURPHY	18655 WEST AVENUE E		LANCASTER	CA	93536
PATRICIA BANUK	15259 W ROSAMOND BLVD		ROSAMOND	CA	93560-7288
PATRICIA BHATTI	3310 E AVENUE K		LANCASTER	CA	93535
PATRICIA FOLCK	355 E GLADSTONE ST		SAN DIMAS	CA	91773-1902
PATRICIA GARCIA	12469 DEL ORO ST		BORON	CA	93516-1355
PATRICIA GREENE	PO BOX 760		ROSAMOND	CA	93560-0760
PATRICIA HOUSTON	5301 60TH ST W		ROSAMOND	CA	93560-6265
PATRICIA HOWARD	12490 SIERRA VIEW ST		BORON	CA	93516-1352
PATRICIA JACKSON	PO BOX 1624		ROSAMOND	CA	93560-1624
PATRICIA KNITTEL	34447 SQUAW LEAP LN		AUBERRY	CA	93602-9675
PATRICIA LACHENEY	11054 MANZANITA MESA RD		LITTLEROCK	CA	93543-4227
PATRICIA LOAISIGA	PO BOX 900031		PALMDALE	CA	93590-0031
PATRICIA MONGIANO	41902 LOMA VIS		LANCASTER	CA	93536-2831
PATRICIA PHILLIPS	5304 GARDENDALE LN		PALMDALE	CA	93551-2757
PATRICIA PROCTOR WARDLOW	PO BOX 627		DANDRIDGE	TN	37725-0627
PATRICIA SAYLES	27776 TIRANTE		MISSION VIEJO	CA	92692-2733
PATRICIA SCRUGGS	6063 W AVENUE J3		LANCASTER	CA	93536-7528
PATRICIA SMITH	6848 W AVENUE D8		LANCASTER	CA	93536-8819
PATRICIA VAUGHN	6035 SCARLET LEAF DR		MEMPHIS	TN	38141-7624
PATRICIA WOODRUFF	183 W 6TH ST		CORNING	NY	14830-3027
PATRICK DUFFY	PO BOX 900554		PALMDALE	CA	93590-0554
PATRICK GRANICY	PO BOX 911		LANCASTER	CA	93584-0911
PATRICK HOLT	16197 H ST	APT 189	MOJAVE	CA	93501-1530
PATRICK KEARNS	14035 DICKY ST APT B		WHITTIER	CA	90605-3129
PATRICK LENNON	PO BOX 1063		PEARBLOSSOM	CA	93553-1063
PATRICK MC DANIEL	9490 CARMEL RD		ATASCADERO	CA	93422-6202
PATSY FELIX	7884 ROLAND AVE		ROSAMOND	CA	93560-7023
PATSY VERNON	835 TALISMAN DR		PALO ALTO	CA	94303-4449
PATTEN JANET J LIVING TRUST	47803 60TH ST E		LANCASTER	CA	93535-7826
PATTERSON ELINORE E	8051 W AVENUE B10		LANCASTER	CA	93536-9515
PATTERSON WAYNE L	41657 150TH ST E		LANCASTER	CA	93535-7015
PATTY MLINAR	24360 JUNIPER AVE		BORON	CA	93516-1364
PAUL ALLISON	11985 GASKELL RD		ROSAMOND	CA	93560-7055
PAUL HARTWIG	1720 W AVENUE L4		LANCASTER	CA	93534-6951
PAUL HERBERT	21216 E AVENUE R		PALMDALE	CA	93591-4602
PAUL HOANG	5532 WHITTIER BLVD		COMMERCE	CA	90022-4104
PAUL JOHNSON	658 TULAROSA DR	APT A	LOS ANGELES	CA	90026-3679
PAUL KNERR	19300 W AVENUE C		LANCASTER	CA	93536-9283
PAUL KOSLO	17539 ELIZABETH LAKE RD		LAKE HUGHES	CA	93532
PAUL MATEIRO	12349 SIERRA VIEW ST		BORON	CA	93516-1341
PAUL MYLES	6195 105TH ST W		ROSAMOND	CA	93560-6935
PAUL RAMIREZ	14523 SW MILLIKAN WAY STE 200		BEAVERTON	OR	97005-2352
PAUL SHERMAN	15743 HESBY ST		ENCINO	CA	91436-1532
PAUL STEWART	5817 E AVENUE E		LANCASTER	CA	93535-7846
PAUL THOMPSON	6723 GASKELL RD		ROSAMOND	CA	93560-7132
PAUL ZAPPULLA	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
PAULA COUNTER	24438 SAGE AVE		BORON	CA	93516-1338
PAULA ELLIS	4360 W AVENUE B 8		LANCASTER	CA	93584
PAULA MARKLEY	PO BOX 1612		ROSAMOND	CA	93560-1612
PAULA PALACIOS	PO BOX 447		MOORPARK	CA	93020-0447
PAULA RITTER	47932 90TH ST W		LANCASTER	CA	93536-9303
PAULA ROSALES	217 ELM ST		ALHAMBRA	CA	91801-3008
PAULA SMILLIE	9668 W ROSAMOND BLVD		ROSAMOND	CA	93560-7506
PAULA WHEELOCK	9349 E AVENUE T12		LITTLEROCK	CA	93543-3526
PAULETTE LANG	16520 KALISHER ST		GRANADA HILLS	CA	91344-3751
PAULETTE WADLEIGH	43716 BRAVO LN		LANCASTER	CA	93535-5823

PAULINE ZESS	PO BOX 415		PEARBLOSSOM	CA	93553-0415
PAYTON ERNEST / PAYTON ELIZABETH	38650 LOUISE LN		PALMDALE	CA	93551-5421
PEARL LEE	135 W GREEN ST STE 100		PASADENA	CA	91105-4131
PEARL LEE	560 S SANTA ANITA AVE		SAN MARINO	CA	91108-1417
PEARLINE HAMPTON	PO BOX 5958		LANCASTER	CA	93539-5958
PEDRO DOMINQUEZ	5770 SUE AVE		ROSAMOND	CA	93560-7524
PEDRO LOPEZ	11808 FELLOWS AVE		SAN FERNANDO	CA	91340-1812
PEGGY CARTER	2333 E MEADOW LARK WAY		SAN TAN VLY	AZ	85140-5618
PEGGY DAVIS	18832 OAK RIDGE DR		SANTA ANA	CA	92705-2252
PEGGY DO	11833 EMERY ST		EL MONTE	CA	91732-1615
PEGGY HATFIELD	818 60TH ST W		ROSAMOND	CA	93560-6910
PEGGY LAGATUTTA	31 S ELLIS PL		NEWBURY PARK	CA	91320-4506
PEGGY SMITH	PO BOX 344		ROSAMOND	CA	93560-0344
PEGGY WYLY	12162 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3493
PEMELA HARO	24452 TAMARISK AVE		BORON	CA	93516-1358
PENALOZA GUILLERMO / PENALOZA SUSANA	19021 E AVENUE Q		PALMDALE	CA	93591-4404
PENLAND GLEN	29348 123RD ST E		PEARBLOSSOM	CA	93553-3491
PENNY DAYTON	38749 17TH ST E		PALMDALE	CA	93550-3949
PENNY SCHAEFER	4540 W AVENUE M8		QUARTZ HILL	CA	93536-2939
PEREZ EFRAIN / MARTINEZ SUSANA	11040 LORNE ST APT 230		SUN VALLEY	CA	91352-3976
PEREZ RENE / GUTIERREZ RUTH	3142 CAMINO HERMANOS		LANCASTER	CA	93536-2844
PERKINS ERNEST E / PERKINS ERNESTINA E	23400 W AVENUE D15		LANCASTER	CA	93536-9113
PERKINS ERNEST E / PERKINS ERNESTINA E	23500 W AVENUE D15		LANCASTER	CA	93536-9043
PETE HAMES	40892 COBBLESTONE CT		PALMDALE	CA	93551
PETER EVANGELISTA	1226 EL MONTE DR		SIMI VALLEY	CA	93065-4228
PETER GARCIA	PO BOX 4184		EL MONTE	CA	91734-4184
PETER LOPEZ	12201 EL MIRAGE ST		BORON	CA	93516-1314
PETER MASLANIK	7238 W AVENUE J		QUARTZ HILL	CA	93536-7625
PETER SCHANK	2769 JEFFERIES ST		ROSAMOND	CA	93560-6544
PETER SMITH	PO BOX 8395		LANCASTER	CA	93539-8395
PETERS MICHAEL R / PETERS BEKCY L	50107 40TH ST W		LANCASTER	CA	93536-9505
PETERSEN PROPERTIES	7155 VALJEAN AVE		VAN NUYS	CA	91406-3917
PETERSON	1534 CREEK MILL TRCE		LAWRENCEVILLE	GA	30044-6180
PETRIE STANLEY A / PETRIE KATHLEEN M	31220 106TH ST E		LITTLEROCK	CA	93543-3641
PETRINELLA PLUMMER	PO BOX 6194		LANCASTER	CA	93539-6194
PETTIT MICHAEL H / PETTIT KERRY A	7709 W AVENUE J		LANCASTER	CA	93536-7608
PHIL SHIPLEY	PO BOX 634		PEARBLOSSOM	CA	93553-0634
PHILIP ARKLIN	PO BOX 900697		PALMDALE	CA	93590-0697
PHILIP BUCKNOR	5374 RUSS PL		PALMDALE	CA	93552-3875
PHILIP BUCKNOR	5374 RUSS PL		PALMDALE	CA	93552-3875
PHILIP SCHULTZ	8051 W AVENUE B10		LANCASTER	CA	93536-9515
PHILLIP JOHN	4591 HEATH CIR		ROHNERT PARK	CA	94928-5615
PHILLIP KRUEGER	PO BOX 3005		QUARTZ HILL	CA	93586-0005
PHILLIP LEWIS	28400 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3420
PHOLSAN JOTIKASTHIRA	27411 ANNETTE JO CIR		SAUGUS	CA	91350-1704
PHYLLIS GARLIN	500 S OAK PARK ST		VISALIA	CA	93277-2353
PHYLLIS GOLDIN	824 E PALMDALE AVE		ORANGE	CA	92865-4523
PI SU	9927 OLIVE CT		TEMPLE CITY	CA	91780-3200
PIATT TODD R	45651 160TH ST W		LANCASTER	CA	93536-9039
PILAR VASQUEZ	45100 BEVINGTON AVE		LANCASTER	CA	93535
POISSON MATTHEW R / POISSON JENNY M	575 N KNIGHT DR		EDWARDS	CA	93523-2736
POLITO KEVIN C	25671 SMOKETREE LN		VALENCIA	CA	91381-0620
POLLY SHIU	586 VIENNA ST STE 3		SAN FRANCISCO	CA	94112-2818
POMEROY VANCE / POMEROY KIMBERLEY A	29319 121ST ST E		LITTLEROCK	CA	93543-4204
POMPEY RAYMOND J / POMPEY FAMILY	45807 20TH ST E		LANCASTER	CA	93535-1425
POMPOSO SARAH	18325 W AVENUE B		LANCASTER	CA	93536-8917
PONCE EMELIA	23537 W AVENUE C8		LANCASTER	CA	93536-9274
PONCEDELEON MICHAEL A	PONCEDELEON KATHY M	15533 RICHVALE DR	WHITTIER	CA	90604-3244
POOI KAN	3232 NEWMARK DR		MIAMISBURG	OH	45342-5421
PORTILLO BLANCA	18310 E AVENUE S		LLANO	CA	93544
POTTER DANIEL R / POTTER JANICE M	7828 W AVENUE H		LANCASTER	CA	93536-8108
PQ TECHNOLOGIES INC	47205 60TH ST E		LANCASTER	CA	93535-7827
PQ TECHNOLOGIES INC	47205 60TH ST E		LANCASTER	CA	93535-7827
PRATEEK GOEL	330 W 11TH ST APT 607		LOS ANGELES	CA	90015-2233
PRELEWICZ KRISY L	46330 72ND ST W		LANCASTER	CA	93536-8115
PRESTON SHULTS	PO BOX 422		ROSAMOND	CA	93560-0422
PRESTON SHULTS	PO BOX 422		ROSAMOND	CA	93560-0422
PRICE CYNTHIA D	3923 BEACON LN		PALMDALE	CA	93551
PRIDE PET	PO BOX 1055		PACIFIC PLSDS	CA	90272-1055
PRIME 40 WEST LP	7116 VALJEAN AVE		VAN NUYS	CA	91406-3901
PRIMO TAPIA	1101 71ST ST W		ROSAMOND	CA	93560-7032
PRINCE JERRY D / PRINCE JACQUELINE	11015 BUTTERFIELD STAGE RD		LITTLEROCK	CA	93543-3724
PULTE HOME CORP	27220 TURNBERRY LN		VALENCIA	CA	91355-1018
PUPPY SHOP INC	39487 DESERT LILLY CT		PALMDALE	CA	93551
PURSLEY D D ; K C FAMILY TRUST	PO BOX 4735		LANCASTER	CA	93539-4735
PYUNG WHANG	23231 MALTBY PL		HARBOR CITY	CA	90710-1132
QUALITY LENDING ET AL	3815 S WEST TEMPLE		SALT LAKE CITY	UT	84115-4412
QUANG BANH	7850 SLATER AVE SPC 115		HUNTINGTON BEACH	CA	92647-6763
QUARTZ HILL CENTER LLC	24832 PICO CANYON RD		STEVENSON RANCH	CA	91381-1700
QUESADA RODRIGO / QUESADA ISABLE	157 E AVENUE F		LANCASTER	CA	93535-6411
QUILICOT KENNETH D	3629 W AVENUE K10		LANCASTER	CA	93536-4928
QUILLEN J L ; K L LIVING TRUST	18450 W AVENUE D		LANCASTER	CA	93536-9266
QUINTERO ESMERALDA	46411 70TH ST E		LANCASTER	CA	93535-7833
QUIROGA JAMES	5606 E AVENUE K8		LANCASTER	CA	93535-8606
QUIROZ JAIME	5033 E AVENUE K8		LANCASTER	CA	93535-8602
QUYEN TRAN	237 S BEACH BLVD		ANAHEIM	CA	92804-1815
QWEST ENGINEERING INC	465 W 1ST ST		TUSTIN	CA	92780-3002

R AND V NULL FAMILY LTD PTNSHP	1160 5TH STREET LOOP W		TILLAMOOK	OR	97141-9488
R BROTHERS	PO BOX 1346		ROSAMOND	CA	93560-1346
R DE LA ROSA	9580 W ROSAMOND BLVD		ROSAMOND	CA	93560-7505
R JENKINS	6465 SWEETSER RD		WILLOW SPRINGS	CA	93560-6355
R RANCH	9440 E AVENUE I		LANCASTER	CA	93535-8400
R VARTANIAN	PO BOX 2600		ROSAMOND	CA	93560-2600
RABII INVESTMENTS LLC	4 VIA ERMITAS		RANCHO SANTA MARGARITA	CA	92688-2968
RACHEL BISSON	38 KELLY CIR		SIDNEY	ME	04330-2509
RACHEL FINES	43325 VINEYARD DR		LANCASTER	CA	93535
RACHEL MANNING	24451 TAMARISK AVE		BORON	CA	93516-1351
RACHEL QUIGLEY	43161 8TH ST E		LANCASTER	CA	93535-4739
RACHEL WILLIAMSON	440 W HILLSDALE ST		INGLEWOOD	CA	90302-1124
RAFAEL CANTE	41506 154TH ST E		LAKE LA	CA	93535-7031
RAFAEL MEDINA	18122 E AVENUE O		PALMDALE	CA	93591-3804
RAFAEL NOVOA	5594 SUE AVE		ROSAMOND	CA	93560-6986
RAFAEL ROSALES	38642 KYLE PL		PALMDALE	CA	93551
RAFAEL TORRES	PO BOX 6922		LANCASTER	CA	93539-6922
RAJ PRADEEP / RAJ MARY J	37146 THE GRVS		PALMDALE	CA	93551-6232
RAKEIA PRATT	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
RALPH DE LANO	2860 100TH ST W		ROSAMOND	CA	93560-7076
RALPH DRAEGER	9531 WARBURTON DR		HUNTINGTN BCH	CA	92646-3629
RALPH HEWITT	124 E EL CAMINO ST		SANTA MARIA	CA	93454-4106
RALPH LA PREZIOSA	PO BOX 22		LAKE HUGHES	CA	93532-0022
RALPH LA PREZIOSA	PO BOX 22		LAKE HUGHES	CA	93532-0022
RALPH MARTIN	PO BOX 384		PEARBLOSSOM	CA	93553-0384
RAMEY TODD	9503 NORTHSIDE DR		LEONA VALLEY	CA	93551-7108
RAMIREZ CLAUDIA M	16644 RINALDI ST		GRANADA HILLS	CA	91344-3631
RAMIREZ VICTOR H	44022 42ND ST W		LANCASTER	CA	93536-5869
RAMIRO DIAZ	3815 SW TEMPLE		SALT LAKE CITY	UT	84115
RAMIRO GONZALEZ	20618 COHASSET ST		CANOGA PARK	CA	91306-2807
RAMON	2081 60TH ST W		ROSAMOND	CA	93560-6561
RAMON HARO	24452 TAMARISK AVE		BORON	CA	93516-1358
RAMON RAMOS	12567 YUBA RD		PHELAN	CA	92371-7836
RAMOS FIDENCIO / RAMOS ROSA D	626 E AVENUE G		LANCASTER	CA	93535-5901
RAMOS SERGIO / RAMOS ESTHER M	4657 E AVENUE G		LANCASTER	CA	93535-7708
RANATUNGE BANDULA D / RANATUNGE CHANDHI	4508 CINNABAR AVE		PALMDALE	CA	93551-1854
RANDALL A STEVENS JR LIVING TRUST	PO BOX 781		ROSAMOND	CA	93560-0781
RANDALL BLAYNEY	17259 COMMUNITY ST		NORTHRIDGE	CA	91325-4055
RANDALL STERBA	27720 MANSFIELD CT		VALENCIA	CA	91354-1623
RANDOLF SALAZAR	37741 MENTOR CT		PALMDALE	CA	93550-2587
RANDY ANDREONI	48751 245TH ST W		LANCASTER	CA	93536-9121
RANDY KISTLER	5216 CAMPO RD		WOODLAND HILLS	CA	91364-1927
RANDY SPEARS	24284 SAGE AVE		BORON	CA	93516-1334
RANDY WIDMER	PO BOX 1670		ROSAMOND	CA	93560-1670
RANJAN GORADIA	32063 PACIFICA DR		RANCHO PALOS VERDES	CA	90275-5763
RAQUEL MUNOZ	9755 BUCKHORN AVE		ROSAMOND	CA	93560-7299
RAUL ALICER	1452 3RD ST		SIMI VALLEY	CA	93065-3206
RAUL BAUTISTA	24127 JOSHUA AVE		BORON	CA	93516-1320
RAUL MARTINEZ	6607 ALMOND VALLEY WAY		LANCASTER	CA	93536-1230
RAUL TORRES	8230 REDBUSH LN		PANORAMA CITY	CA	91402-5317
RAWLEY DAVIS	3255 50TH STREET WEST		ROSAMOND	CA	93560
RAY CROFT	2608 60TH ST W		ROSAMOND	CA	93560-6988
RAY CROFT	2608 60TH ST W		ROSAMOND	CA	93560-6988
RAY MC GOUGH	PO BOX 1628		ROSAMOND	CA	93560-1628
RAY MORALES	14348 W AVENUE D # 84		LANCASTER	CA	93536
RAYMOND CHAMPAGNE	7989 RENEE CIR		BENTON	AR	72019-9551
RAYMOND CHINN	2921 MCCALL AVE		BAKERSFIELD	CA	93304-6227
RAYMOND CUMMINS	4217 N DILKON RD		GOLDEN VALLEY	AZ	86413-8335
RAYMOND JOHNSON	623 MELBA LN		BAKERSFIELD	CA	93307-1653
RAYMOND NODA	PO BOX 1506		MONROVIA	CA	91017-5506
RAYMOND POMPEY	45807 20TH ST E		LANCASTER	CA	93535-1425
RAYMOND STEAD	6171 GOBI ST		ROSAMOND	CA	93560
RAYMOND STEWART	24969 MULHOLLAND HWY		CALABASAS	CA	91302-2366
RAYMUNDO CORTEZ	6654 W AVENUE L4		LANCASTER	CA	93536-4560
RAYMUNDO RODRIGUEZ	3165 SANDSTONE CT		PALMDALE	CA	93551-1020
RAY-SHE ESTATE TRUST	PO BOX 711		ROSAMOND	CA	93560-0711
RCN3 TRUST	1101 SALISBURY RD		LA CANADA	CA	91011-2345
RE MAP LLC	3487 SAN PABLO AVE		SAN JOSE	CA	95127-1147
REBA JORDAN	PO BOX 756		BORON	CA	93596-0756
REBECA FUENTES	355 S HIDDEN GROVE LN		ANAHEIM	CA	92807
REBECCA BROWN	1658 FALL CT		ROSAMOND	CA	93560-6547
REBECCA KOSICK	PO BOX 1162		ROSAMOND	CA	93560-1162
REBECCA MARKS	PO BOX 1085		PEARBLOSSOM	CA	93553-1085
REBECCA MC GOUGH	1865 60TH ST W		ROSAMOND	CA	93560-7370
REBECCA STEWART	5817 E AVENUE E		LANCASTER	CA	93535-7846
REEVES JEROLD K; SYLVIA D	REEVES FAMILY	6124 W AVENUE G	LANCASTER	CA	93536-8507
REHAUME LARRY M / REHAUME CINDY E	3357 TWINCREEK CT		PALMDALE	CA	93551-1080
REMIGLIA SCAVO	19550 AVENUE OF THE OAKS		NEWHALL	CA	91321-1307
RENAE DAVIS	24374 SAGE AVE		BORON	CA	93516-1336
RENE NAVARRO	5008 SUNBURST DR		PALMDALE	CA	93552-5300
RENNEL FARR	851 65TH ST W		ROSAMOND	CA	93560-7035
RESCAR INDUSTRIES INC	PO BOX 6333		MAGNA	UT	84044-6333
RESERVE SYSTEMS INC	4040 MANLY RD		ROSAMOND	CA	93560-6930
REUSCHEL JON M	12333 E AVENUE H		LANCASTER	CA	93535-8724
REUTER JAMES ; CORALEE H / REUTER FAMILY	7362 W AVENUE G		LANCASTER	CA	93536-8618
REVA AIKENS	3658 W 59TH PL		LOS ANGELES	CA	90043-2904
REVA MUNZ	12701 LANCASTER RD		LANCASTER	CA	93536-9014

REX CADUNGOG	673 FISHER CIR		FOLSOM	CA	95630-9541
REX THOMPSON	6294 SHORELAND CIR		BUFORD	GA	30518-1551
REYES ESTEBAN G / BONILLA JULIO C	45819 65TH ST E		LANCASTER	CA	93535-8300
REYES MARLON J	48205 60TH ST E		LANCASTER	CA	93535-7824
REYES MARTELL	12954 PROFITT ST		NORTH EDWARDS	CA	93523-3445
REYNALDO CHAVEZ	29857 104TH ST E		JUNIPER HILLS	CA	93543-3616
REYNOLDS JULIA B	43044 FLAG ST		LANCASTER	CA	93536-4651
REYNOSO JOSE F / RAMOS MARIA R	4520 CINNABAR AVE		PALMDALE	CA	93551-1854
RHAMIE CHONG	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
RHETTA DAVIS	24856 APPIAN WAY		MURRIETA	CA	92562-5734
RHODA BAILEY	2315 E PALMDALE BLVD # GC27		PALMDALE	CA	93550-4959
RHONALD BURGESS	PO BOX 2145		ROSAMOND	CA	93560-2145
RHONDA MUELLER	2136 E BROWER ST		SIMI VALLEY	CA	93065-2403
RIAHI MANDANA	10535 WILSHIRE BLVD APT 1606		LOS ANGELES	CA	90024-4565
RICARDO MARTINEZ	4001 E AVENUE E		LANCASTER	CA	93535-7720
RICARDO MARTINEZ	4001 E AVENUE E		LANCASTER	CA	93535-7720
RICH MAN PROPERTY GROUP TRUST	1752 E AVENUE J STE 105		LANCASTER	CA	93535-4474
RICHARD ATILANO	7051 WHITTIER AVE APT C		WHITTIER	CA	90602-1149
RICHARD BOLIN	9250 NW MOUNTAIN VIEW ACRES RD		PRINEVILLE	OR	97754-9267
RICHARD CASE	PO BOX 1101		ROSAMOND	CA	93560-1101
RICHARD COLEMAN	727 SUBURBAN DR		BRIGHAM CITY	UT	84302-2886
RICHARD DEARBORN	2601 100TH ST W		ROSAMOND	CA	93560-7077
RICHARD DEARBORN	2601 100TH ST W		ROSAMOND	CA	93560-7077
RICHARD DIXON	PO BOX 902111		PALMDALE	CA	93590-2111
RICHARD DOUGLASS	PO BOX 1744		ROSAMOND	CA	93560-1744
RICHARD DOWDY	12221 SIERRA VIEW ST		BORON	CA	93516-1339
RICHARD ELLIS	4360 W AVENUE B 8		LANCASTER	CA	93584
RICHARD ELLIS	35581 165TH STREET EAST		LLANO	CA	93544
RICHARD FELTER	PO BOX 1030		ROSAMOND	CA	93560-1030
RICHARD HARPER	945 E BRETT ST		INGLEWOOD	CA	90302-1413
RICHARD HEFLIN	5109 60TH ST W		ROSAMOND	CA	93560-6551
RICHARD HOPKINS	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
RICHARD HORVATIN	6520 GASKELL RD		ROSAMOND	CA	93560-7131
RICHARD HSU	26 SANTA CRUZ		ROLLING HILLS ESTATES	CA	90274-5402
RICHARD KESSENER	524 E PALM AVE		EL SEGUNDO	CA	90245-3014
RICHARD KOSICK	PO BOX 1162		ROSAMOND	CA	93560-1162
RICHARD LAUREYS	8349 MOJAVE AVE		ROSAMOND	CA	93560-7188
RICHARD LESLEY A / ALLEN LATRICE M	44613 31ST ST W		LANCASTER	CA	93536-8367
RICHARD MICCOLIS	19538 LOS ALIMOS ST		NORTHRIDGE	CA	91326-2221
RICHARD MILLIGAN	6265 105TH ST W		ROSAMOND	CA	93560-7515
RICHARD MILLS	47044 5TH ST W		LANCASTER	CA	93534-7501
RICHARD MINER	9678 DAWN RD		ROSAMOND	CA	93560-7503
RICHARD MITCHELL	45740 95TH ST W		LANCASTER	CA	93536-8004
RICHARD MORGAN	PO BOX 1090		ROSAMOND	CA	93560-1090
RICHARD MOSS	1049 CINNAMON RANCH RD		BISHOP	CA	93514-9481
RICHARD ODELL	PO BOX 74		VALYERMO	CA	93563-0074
RICHARD OLIVER	12428 EL MIRAGE ST		BORON	CA	93516-1319
RICHARD PARE	2935 DAVENPORT ST		ROSAMOND	CA	93560-7513
RICHARD SIKRA	PO BOX 6184		THOUSAND OAKS	CA	91359-6184
RICHARD SKAGGS	2156 ELANITA DR		SAN PEDRO	CA	90732-4434
RICHARD SMITH	10735 LEONA AVE		LEONA VALLEY	CA	93551-7304
RICHARD SULZ	4066 WEST AVENUE J6		LANCASTER	CA	93536-6833
RICHARD TURNBLAD	24856 APPIAN WAY		MURRIETA	CA	92562-5734
RICHARD WHEATON	809 W NEWGROVE ST		LANCASTER	CA	93534-3009
RICHARD WHITEHOUSE	30401 104TH ST E		LITTLEROCK	CA	93543-3613
RICHARD WILLIAMS	PO BOX 5302		LANCASTER	CA	93539-5302
RICHARDS WILLIAM J	50665 110TH ST W		LANCASTER	CA	93536-9412
RICHLAND ANTELOPE VALLEY	1925 CENTURY PARK E STE 1160		LOS ANGELES	CA	90067-2712
RICHMOND AMERCIAN HOMES OF	5171 CALIFORNIA AVE STE 120		IRVINE	CA	92617-3036
RICHMOND RICHARD M / RICHMOND WILMA M	12841 PALLET MESA RD		PEARBLOSSOM	CA	93553-3473
RICHMOND TRUST / RICHMOND MANUEL	42936 FAIRLEE DR		LANCASTER	CA	93536-4636
RICK CHOW	1121 W EDGEWARE RD		LOS ANGELES	CA	90026-5168
RICK HARRIS	PO BOX 1497		ROSAMOND	CA	93560-1497
RICKIE SCHWEBKE	PO BOX 4366		LANCASTER	CA	93539-4366
RICKY BECK	24172 JOSHUA AVE		BORON	CA	93516-1321
RICKY STUARD	5717 CHARAN RD		ROSAMOND	CA	93560-7126
RICKY TORRES	3334 78TH ST W		ROSAMOND	CA	93560-6995
RIERSON ROBERT R / RIERSON JUANITA	10317 E AVENUE J		LANCASTER	CA	93535-8504
RIFFENBURG LOGAN R	RIFFENBURG VANESSA G	22210 E PALMDALE BLVD	LAKE LOS ANGELES	CA	93591-4704
RIGBY LOLA / ESTEY LOLA R	6763 E AVENUE H		LANCASTER	CA	93535-7849
RILEY AUSTIN	4828 LOOP CENTRAL DR		HOUSTON	TX	77081-2212
RILEY THOMAS M / RILEY DENISE M	4661 E AVENUE F		LANCASTER	CA	93535-7710
RION HUFFORD	PO BOX 1815		ROSAMOND	CA	93560-1815
RITA ACOSTA	2233 60TH ST W		ROSAMOND	CA	93560-6507
RITA ALVAREZ	5246 ELK CRK		SAN ANTONIO	TX	78251-3545
RITA GIBSON	43061 FLAG ST		LANCASTER	CA	93536-4651
RITA TAVERNESE	5641 ABRAHAM AVE		WESTMINSTER	CA	92683-2803
RITTER MARK S / RITTER DANA	51201 90TH ST W		LANCASTER	CA	93536-9404
RIVIERA PROPERTIES LLC	13428 MAXELLA AVE # 606		MARINA DL REY	CA	90292-5620
RMS RESIDENTIAL PROPERTIES LLC	8742 LUCENT BLVD STE 300		HIGHLANDS RANCH	CO	80129-2386
ROBBIE LIENHART	4450 CALIFORNIA AVE STE 52		BAKERSFIELD	CA	93309-1152
ROBBIN HOUCHEN	19800 GASKELL RD		ROSAMOND	CA	93560-7245
ROBBIN HOUCHEN	19800 GASKELL RD		ROSAMOND	CA	93560-7245
ROBBINS RICHARD SR / ROBBINS DORTHY	47229 DIVISION ST		LANCASTER	CA	93535-6405
ROBBY ASHPAUGH	2797 MAGNOLIA ST		CAMARILLO	CA	93012-8044
ROBBY HARGRAVE	38465 3RD ST E STE P		PALMDALE	CA	93550-4501
ROBERSON	3003 8TH AVE		LOS ANGELES	CA	90018-3304

ROBERT A. DAVIS	2399 WINDWARD CIR		WESTLAKE VLG	CA	91361-3438
ROBERT ALBERT	21601 ADLER DR		CALIF CITY	CA	93505-1403
ROBERT AUSTIN	PO BOX 535		PEARBLOSSOM	CA	93553-0535
ROBERT BEECHLY	PO BOX 155		ROSAMOND	CA	93560-0155
ROBERT BELL	1541 STUART ST		CAMBRIA	CA	93428-5921
ROBERT BENTON	24264 CHAPARRAL AVE		BORON	CA	93516-1306
ROBERT BETSON	5093 61ST ST W		ROSAMOND	CA	93560-6463
ROBERT CHANEY	PO BOX 432		MOJAVE	CA	93502-0432
ROBERT CHERLAND	6217 SHADOW HILLS DR		LANCASTER	CA	93536-3715
ROBERT DENNIS	43770 15TH ST W STE 125		LANCASTER	CA	93534-5200
ROBERT DONOVAN	6169 SWEETSER RD		ROSAMOND	CA	93560-6573
ROBERT EKHOLM	PO BOX 4		VALYERMO	CA	93563-0004
ROBERT ELIA	PO BOX 1712		ANGEL FIRE	NM	87710-1712
ROBERT ESGUERRA	20405 JANZER CT		SANTA CLARITA	CA	91350-8512
ROBERT FENNELL	8408 SWEETSER RD		ROSAMOND	CA	93560-7096
ROBERT FORSHIER	12715 MURPHYS LN		PEARBLOSSOM	CA	93553-3445
ROBERT G. DAVIS	43838 90TH ST W		LANCASTER	CA	93536-7701
ROBERT GEIGER	7963 ROLAND AVE		ROSAMOND	CA	93560-7057
ROBERT GIBSON	PO BOX 115		VALYERMO	CA	93563-0115
ROBERT GRANT	37147 186TH ST E		LLANO	CA	93544-1414
ROBERT GRATER	PO BOX 822		POWELL	WY	82435-0822
ROBERT GREER	PO BOX 2752		LANCASTER	CA	93539-2752
ROBERT HARDY	1000 TECHNOLOGY DR MS 314		O FALLON	MO	63368-2239
ROBERT HARMON	5771 CHARAN RD		ROSAMOND	CA	93560-7126
ROBERT HERBERT	24400 JOSHUA AVE		BORON	CA	93516-1327
ROBERT HOUSE	PO BOX 1874		ROSAMOND	CA	93560-1874
ROBERT JOHNSTON	PO BOX 2125		LANCASTER	CA	93539-2125
ROBERT JONES	9440 E AVENUE I		LANCASTER	CA	93535-8400
ROBERT KAMMER	11802 E AVENUE D		LANCASTER	CA	93535-8019
ROBERT KEITH DYAS	1975 KEITH LANE		ROSAMOND	CA	93560
ROBERT KEITH DYAS	1875 KEITH LANE		ROSAMOND	CA	93560
ROBERT KING	PO BOX 2120		ROSAMOND	CA	93560-2120
ROBERT LARGE	PO BOX 949		LAKE HUGHES	CA	93532-0949
ROBERT LEACH	24232 JUNIPER AVE		BORON	CA	93516-1329
ROBERT LEE	2743 28TH ST W		ROSAMOND	CA	93560-6436
ROBERT LEWIS	PO BOX 1180		LITTLEROCK	CA	93543-1180
ROBERT LIPE	5264 MOHAVE DR		SIMI VALLEY	CA	93063-2008
ROBERT MACDONALD	43031 40TH ST E		LANCASTER	CA	93535-8103
ROBERT MARTINEZ	775 65TH ST W		ROSAMOND	CA	93560-7224
ROBERT MC KENNA	2364 LUPINE TRL		BULLHEAD CITY	AZ	86442-8760
ROBERT MELVIN	38901 230TH ST E		PALMDALE	CA	93591-4706
ROBERT MORRIS	2513 100TH ST W # 3		ROSAMOND	CA	93560-7010
ROBERT MUNOZ	38756 LILACVIEW AVE		PALMDALE	CA	93550-4254
ROBERT NELSON	4050 MANLY RD		ROSAMOND	CA	93560-6930
ROBERT PENA	15229 LAKESIDE ST		SYLMAR	CA	91342-3713
ROBERT PIKE	6000 140TH STREET WEST		ROSAMOND	CA	93560
ROBERT PRUITT	1701 JUDY AVE		BAKERSFIELD	CA	93312
ROBERT REED	PO BOX 901754		PALMDALE	CA	93590-1754
ROBERT ROOS	PO BOX 1938		ROSAMOND	CA	93560-1938
ROBERT SANKEY	9008 HIERBA RD		AGUA DULCE	CA	91390-4560
ROBERT SCHEIRE	5527 105TH ST W		WILLOW SPRINGS	CA	93560-7500
ROBERT SHEPHARD	PO BOX 2504		ROSAMOND	CA	93560-2504
ROBERT SLADE	6225 HOLIDAY AVE		ROSAMOND	CA	93560-6518
ROBERT SLOCUM	PO BOX 1535		LANCASTER	CA	93539-1535
ROBERT SMITH	PO BOX 945		ROSAMOND	CA	93560-0945
ROBERT SMITH	309 N BALDY VISTA AVE		GLENDORA	CA	91741-6606
ROBERT SMITH	PO BOX 945		ROSAMOND	CA	93560-0945
ROBERT SORENSEN	1852 MARY RD		ACTON	CA	93510-1493
ROBERT SUTER	751 HIGHWAY AT		VILLA RIDGE	MO	63089-2119
ROBERT SWICK	13612 BRADLEY AVE		SYLMAR	CA	91342-1104
ROBERT TALBOT	9 RUSTLER LN		ROLLING HILLS ESTATES	CA	90274-1543
ROBERT THORNTON	PO BOX 155		BORON	CA	93596-0155
ROBERT WIESE	15216 BURBANK BLVD STE 300		SHERMAN OAKS	CA	91411-3561
ROBERT WOODS	11565 S ARHARTON DR		IDAHO FALLS	ID	83404
ROBERT ZAVALA	6781 GASKELL RD		ROSAMOND	CA	93560-7132
ROBERTA ENGLISH	24169 JOSHUA AVE		BORON	CA	93516-1320
ROBERTA FRANCO	12204 ALBERTA DR		CULVER CITY	CA	90230-5906
ROBERTA HARGRAVE	PO BOX 1675		ROSAMOND	CA	93560-1675
ROBERTO ALVAREZ	5246 ELK CRK		SAN ANTONIO	TX	78251-3545
ROBERTO CASTRO	4824 W 120TH ST		HAWTHORNE	CA	90250-2725
ROBERTO CO	910 EUCLID AVE APT 82		NATIONAL CITY	CA	91950-3839
ROBERTO MORENO	6523 GAVIOTA AVE		VAN NUYS	CA	91406-6409
ROBIN BAKER	GENERAL DELIVERY		LANCASTER	CA	93539-9999
ROBIN FUTCH	PO BOX 558		LAKE HUGHES	CA	93532-0558
ROBIN GAGNON	PO BOX 2308		ROSAMOND	CA	93560-2308
ROBIN GREEN	42450 12TH ST W		LANCASTER	CA	93534-7082
ROBIN RUIZ	99 WYOMING ST		BOULDER CITY	NV	89005-2803
ROBIN RUIZ	99 WYOMING ST		BOULDER CITY	NV	89005-2803
ROBIN WALTON	24242 CHAPARRAL AVE		BORON	CA	93516-1306
ROBINSON LUCIAN; BARBARA	ROBINSON FAMILY	35800 106TH ST E	LITTLEROCK	CA	93543-2800
ROBLES RICHARD E	40812 GRANITE ST		PALMDALE	CA	93551-1806
ROBYN ANDRADE	47522 80TH ST W		LANCASTER	CA	93536-8637
ROCHELLE ROBERSON	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
ROD HERDERSON	405 W LANCASTER BLVD		LANCASTER	CA	93534-2539
RODAH YOUNG	PO BOX 1468		ROSAMOND	CA	93560-1468
RODNEY ELLIS	15444 SPUNKY CANYON RD # 847		AGUA DULCE	CA	91390-4902
RODNEY KIRSCH	6175 WILLOW AVE		ROSAMOND	CA	93560-6524

RODNEY METTER	3151 E AVENUE H	LANCASTER	CA	93535-1607
RODNEY SAKEMILLER	12826 MURPHYS LN	PEARBLOSSOM	CA	93553-3442
RODNEY STILLION	36663 OLIVER LN	PALMDALE	CA	93551-7945
RODOLFO ESCOBAR	4091 ELWOOD AVE	PALMDALE	CA	93552-3615
RODOLFO ESCOBAR	5726 OPAL AVE	PALMDALE	CA	93552-3943
RODOLFO RAMIREZ	630 N VERNON AVE	AZUSA	CA	91702-2835
RODRIGO MEZA	2719 57TH ST W	ROSAMOND	CA	93560-6923
RODRIGO SANCHEZ	6727 PISTACHIO PL	PALMDALE	CA	93551-1930
RODRIGUEZ ARNALDO	49050 130TH ST W	LANCASTER	CA	93536-9364
RODRIGUEZ ELENA	47190 110TH ST W	LANCASTER	CA	93536-8633
RODRIGUEZ JOSE J	47400 120TH ST E	LANCASTER	CA	93535-8008
RODRIGUEZ JUAN C / RODRIGUEZ GABRIELA	29143 127TH ST E	PEARBLOSSOM	CA	93553-3444
ROGELIO TORRES	24312 JUNIPER AVE	BORON	CA	93516-1364
ROGER BASS	445 HAMILTON AVE FL 8	WHITE PLAINS	NY	10601-1807
ROGER CHRISTIANSEN	PO BOX 416	ROSAMOND	CA	93560-0416
ROGER DAMRON	PO BOX 1951	LANCASTER	CA	93539-1951
ROGER DAMRON	PO BOX 1951	LANCASTER	CA	93539-1951
ROGER GORSKI	3832 MINERVA AVE	LOS ANGELES	CA	90066-4023
ROGER KING	6219 WILLOW AVE	ROSAMOND	CA	93560-7234
ROGER SCHAEFER	4540 W AVENUE M8	QUARTZ HILL	CA	93536-2939
ROGER SIDES	49540 55TH ST W	LANCASTER	CA	93536-9511
ROGERS EDWIN C / ROGERS BARBARA B	19620 W AVENUE A	LANCASTER	CA	93536-8908
ROGERS MARVIN A / ROGERS JERRY H	11819 JUNIPER HILLS RD	LITTLEROCK	CA	93543-4207
ROLAND VALENTINE	PO BOX 1851	ROSAMOND	CA	93560-1851
ROLANDO DOLATRE	1300 LANCE LN	CAROL STREAM	IL	60188-3332
ROLANDO LIM	19140 MERION DR	NORTHRIDGE	CA	91326-1835
ROLANDO TONG	3 NORMANDIE	ALISO VIEJO	CA	92656-7064
ROLF CARLE	PO BOX 13	ROSAMOND	CA	93560-0013
ROLYAS	16956 DESERITA AVE	NORTH EDWARDS	CA	93523-3413
ROLYAS TRUST	16956 DESERITA AVE	NORTH EDWARDS	CA	93523-3413
ROMAN CATHOLIC ARCHBISHOP	3424 WILSHIRE BLVD	LOS ANGELES	CA	90010-2202
ROMANA LOPEZ	14400 MELODY LN	ROSAMOND	CA	93560-7006
ROMARICO LATUPAN	13324 FOX ST	EDWARDS	CA	93523-3248
ROMEO DAVID	78 AMBERWOOD CIR	S SAN FRAN	CA	94080-3462
ROMEO PALACIOS	7318 DINWIDDIE ST	DOWNEY	CA	90241
ROMULO TAYOBA	25611 AVENIDA JOLITA	VALENCIA	CA	91355-2501
RON BANUK	15259 W ROSAMOND BLVD	ROSAMOND	CA	93560-7288
RON BIVINS	13693 BADGER AVE	SYLMAR	CA	91342-2510
RON CAMMARATA	PO BOX 8935	CALABASAS	CA	91372-8935
RON SATEL	PO BOX 2254	ROSAMOND	CA	93560-2254
RONALD ARRACHE	PO BOX 2468	LANCASTER	CA	93539-2468
RONALD BISSON	38 KELLY CIR	SIDNEY	ME	04330-2509
RONALD BRANDINI	3382 CORPUS CHRISTI ST	SIMI VALLEY	CA	93063-1406
RONALD CLARK	18160 SHADOWBROOK WAY	MORGAN HILL	CA	95037-3559
RONALD GEGOIRE	905 MISSION CREEK DR	PALM DESERT	CA	92211-5910
RONALD HARRIS	PO BOX 2117	ROSAMOND	CA	93560-2117
RONALD HUNT	3435 WHISPER SANDS AVE	ROSAMOND	CA	93560-7807
RONALD HUNT	536 SAFE LANDING WAY	ROSAMOND	CA	93560-7387
RONALD LAMB	1514 57TH ST W	ROSAMOND	CA	93560-6915
RONALD LARSEN	5776 JACKSON AVE	ROSAMOND	CA	93560-6970
RONALD POPPINO	321 MONTECITO AVE	MONTEREY	CA	93940-3822
RONALD ROQUEMORE	PO BOX 796	BORON	CA	93596-0796
RONALD SHELDON	PO BOX 1789	ROSAMOND	CA	93560-1789
RONALD SMILLIE	9668 W ROSAMOND BLVD	ROSAMOND	CA	93560-7506
RONALD SPEED	818 60TH ST W	ROSAMOND	CA	93560-6910
RONALD STRANGE	PO BOX 1256	ROSAMOND	CA	93560-1256
RONG FITZIGIBBONS	1158 E AVENUE J 5	LANCASTER	CA	93535
RONNIE FOX	24329 TAMARISK AVE	BORON	CA	93516-1349
RONNIE POUND	6118 HOLIDAY AVE	ROSAMOND	CA	93560-6519
ROQUE NOLACIO JR	44639 27TH STREET EAST	LANCASTER	CA	93535-1769
RORY BUTTERFIELD	PO BOX 1475	ROSAMOND	CA	93560-1475
RORY NAVIS	37054 BOXLEAF RD	PALMDALE	CA	93550-7333
ROSA BAEZ	212 E AVENUE K6 STE 300	LANCASTER	CA	93535-4565
ROSA BAEZ	212 E AVENUE K6	LANCASTER	CA	93535-4567
ROSA CASTANEDA	10107 CONDON AVE	INGLEWOOD	CA	90304-1438
ROSA CRUZ	14235 FRIAR ST	VAN NUYS	CA	91401-2109
ROSA HARO	PO BOX 2505	ROSAMOND	CA	93560-2505
ROSA PRODAN	4375 HUASNA RD	ARROYO GRANDE	CA	93420-6175
ROSA RAMOS	616 E AVENUE G	LANCASTER	CA	93535-5901
ROSA TINTOCALIS	5620 MAGDA CT	PALMDALE	CA	93552-6304
ROSALEE CALVERT	0 49-305 HWY 74 NO 4	PALM DESERT	CA	92260
ROSALINA ROBLES	5798 JACKSON AVE	ROSAMOND	CA	93560-6970
ROSALINA TAYOBA	25611 AVENIDA JOLITA	VALENCIA	CA	91355-2501
ROSALINDA ALATORRE	5377 ELDER AVE	ROSAMOND	CA	93560-6904
ROSALVA ARELLANO	21413 E AVENUE S	PALMDALE	CA	93591-4519
ROSAMOND	100 S SUNRISE WAY STE 444	PALM SPRINGS	CA	92262-6778
ROSAMOND	100 S SUNRISE WAY STE 444	PALM SPRINGS	CA	92262-6778
ROSARIO BANUELOS	11635 SATICOY ST	NORTH HOLLYWOOD	CA	91605-2945
ROSARIO SALAZAR	12360 GLAMIS ST	PACOIMA	CA	91331-1649
ROSAS LOPEZ	PO BOX 1201	ROSAMOND	CA	93560-1201
ROSE CHANEY	1832 FLOWER ST	BAKERSFIELD	CA	93305-4144
ROSE HAWKINS	24178 SAGE AVE	BORON	CA	93516-1332
ROSE HERRERA	13360 GILBERT ST	NORTH EDWARDS	CA	93523-3430
ROSELIA SANTIBANEZ	47431 4TH ST W	LANCASTER	CA	93534-7506
ROSEMARIE BEALE	6144 W AVENUE K1	LANCASTER	CA	93536-1903
ROSEMARIE KING	13658 E AVENUE K	LANCASTER	CA	93535-8712
ROSEMARIE MILLER	1270 NORTHLAND DR STE 200	MENDOTA HEIGHTS	MN	55120-1176

ROSENDO ROBLES	5798 JACKSON AVE		ROSAMOND	CA	93560-6970
ROSETTA CARTER	24204 JUNIPER AVE		BORON	CA	93516-1329
ROSIE COOPER	PO BOX 2		AZUSA	CA	91702-0002
ROSIE HUBBARD	38128 170TH ST E		PALMDALE	CA	93591-3605
ROSS	24304 CHAPARRAL AVE		BORON	CA	93516-1308
ROSS SWINDLEHURST	24405 TAMARISK AVE		BORON	CA	93516-1351
ROSSOLL MALCOLM W	8754 HOLLISTER RD		PHELAN	CA	92371-6488
ROTIMI LAWANI	1277 W WABASH ST		RIALTO	CA	92376-3986
ROTTMAN LARRY W / ROTTMAN L ; K /TR	6737 W AVENUE H12		LANCASTER	CA	93536-8325
ROWLBACK INVESTMENT GROUP LLC	5446 LOCKHURST DR		WOODLAND HILLS	CA	91367-5734
ROXANN WEBB	32403 228TH ST E		LLANO	CA	93544-1575
ROXANNA RAMEY	25464 VIA ACORDE		VALENCIA	CA	91355-3152
ROXANNA RAMSEY	25464 VIA ACORDE		VALENCIA	CA	91355-3152
ROYAL EWALT	1000 E AVENUE S # 102		PALMDALE	CA	93550
RUBEN BAEZ	212 E AVENUE K6 STE 300		LANCASTER	CA	93535-4565
RUBEN BAEZ	212 E AVENUE K6		LANCASTER	CA	93535-4567
RUBEN LICEA	9802 VENA AVE		ARLETA	CA	91331-4646
RUBEN LOPEZ	12860 FILMORE ST		PACOIMA	CA	91331-1236
RUBEN MAGDALENO	5838 CHARAN RD		ROSAMOND	CA	93560-7381
RUBEN SILVA	1430 LONGHILL		HACIENDA HEIGHTS	CA	91745
RUBEN SOLIZ	6382 GOBI AVE		ROSAMOND	CA	93560-7127
RUDOLPH RCO	5906 JASPER ST		RANCHO CUCAMONGA	CA	91701-1929
RUDOLPH SHEPARD	31791 VIA PATO		COTO DE CAZA	CA	92679-4128
RUDOLPH TURK	PO BOX 865		PEARBLOSSOM	CA	93553-0865
RUFINA VIERNES	1625 ANDALUSIA WAY		SAN JOSE	CA	95125-5004
RUIZ ANTONIO / BETANCOURT ALEJANDRO S	25757 E AVENUE V		LLANO	CA	93544-1535
RUPERTO DOMINGO	2059 LAS COLINAS AVE		LOS ANGELES	CA	90041-2713
RUSSELL	12100 WILSHIRE BLVD STE 800		LOS ANGELES	CA	90025-7140
RUSSELL BEVERLY	44655 JEFFERSON ST		LANCASTER	CA	93535-2839
RUSSELL CLARK	6638 CONSTELLATION AVE		ROSAMOND	CA	93560-6356
RUSSELL CLAWSON	5329 W AVENUE C14		LANCASTER	CA	93536-9512
RUSSELL FULLER	20004 W AVENUE E15		LANCASTER	CA	93536-9078
RUSSELL LANCASTER	PO BOX 1085		ROSAMOND	CA	93560-1085
RUSSELL TERRILL	PO BOX 320		BORON	CA	93596-0320
RUSSELL TINOYAN	7708 W AVENUE H		LANCASTER	CA	93536-8109
RUSSELLENE ANGEL	4826 COUNTRY WOODS LN		GREENSBORO	NC	27410-1814
RUTH BRECKENRIDGE	24171 CHAPARRAL AVE		BORON	CA	93516-1303
RUTH GODDE	13104 BUCKHORN AVE		ROSAMOND	CA	93560-7014
RUTH LAMB	13038 W SUMMER POPPY ST		TUCSON	AZ	85743-7273
RUTH MASSEY	14235 E AVENUE O		PALMDALE	CA	93591-2106
RUTH ODEN	PO BOX 855		PEARBLOSSOM	CA	93553-0855
RUTH WAMBAA	4325 W 182ND ST APT 17		TORRANCE	CA	90504-4538
RUTITA CHAISAKULCHAI	1120 PALM AVE		SAN GABRIEL	CA	91776-3015
RYAN DUKE	7010 W AVENUE E4		LANCASTER	CA	93536-8821
RYAN W J ; C D LIVING TRUST	41 PADDOCK WAY		LANCASTER	CA	93536
S HUTH-TANNER	3500 75TH ST W		ROSAMOND	CA	93560-7179
SABRINA BOWER	5531 CHARAN RD		ROSAMOND	CA	93560-6952
SAHAGUN VICENTE D	SAHAGUN ENCARNACION A	47649 70TH ST W	LANCASTER	CA	93536-8802
SAIRA BHAMANI	22119 CAJUN CT		CANOGA PARK	CA	91303-1896
SAKAGUCHI TOYOKO	4857 W AVENUE A12		LANCASTER	CA	93536-9557
SALEEM DAOOD	18154 MEDLEY DR		ENCINO	CA	91316-4446
SALINAS LANDESERT RANCH LLC	2001 PREUSS RD		LOS ANGELES	CA	90034-1205
SALINE DAVIES	PO BOX 10		VALYERMO	CA	93563-0010
SALLIE CHATTERTON	PO BOX 190		ACTON	CA	93510-0190
SALLVIN TACIA / SALLVIN TRUST	29232 106TH ST E		LITTLEROCK	CA	93543-4232
SALLY GOOPIO	6357 105TH ST W		ROSAMOND	CA	93560-6933
SALPI HAYTAYAN	6431 VARNA AVE		VAN NUYS	CA	91401-1806
SALVADOR CHAVEZ	4425 JASPER ST		LOS ANGELES	CA	90032-2608
SALVADOR DIAZ	PO BOX 2294		ROSAMOND	CA	93560-2294
SALVADOR GOMEZ	19903 VANOWEN ST		WINNETKA	CA	91306-3931
SALVATORE CARRUBBA	1834 CARSON MESA RD		PALMDALE	CA	93550-9728
SAMPAGUITA SALAZAR	37741 MENTOR CT		PALMDALE	CA	93550-2587
SAMUEL ABRAHAM	4190 E AVENUE I		LANCASTER	CA	93535
SAMUEL HELLER	28113 SECO CANYON RD UNIT 77		SANTA CLARITA	CA	91390-4242
SAMUEL MONY	869 BIRCH HILL ST		THOUSAND OAKS	CA	91320-4063
SAMULE HARE	3186 PAWNEE CT		SIMI VALLEY	CA	93063-2061
SANCHO MARIA G	4659 E AVENUE G		LANCASTER	CA	93535-7708
SANDEE CHAVEZ	29857 104TH ST E		JUNIPER HILLS	CA	93543-3616
SANDEEP GARG	475 CROSSPOINT PKWY		GETZVILLE	NY	14068-1609
SANDOVAL ARNULFO D / SANDOVAL ESMERALDA	1002 E AVENUE J		LANCASTER	CA	93535-3870
SANDOVAL PIERRE J / RAMIREZ ADRIANA	44909 110TH ST W		LANCASTER	CA	93536-9344
SANDRA ADKINS	PO BOX 351		BORON	CA	93596-0351
SANDRA DINNGER	800 70TH ST W		ROSAMOND	CA	93560-7060
SANDRA GABBANI	2163 HARRIS AVE		ROSAMOND	CA	93560-6520
SANDRA HAMMAN	24124 CHAPARRAL AVE		BORON	CA	93516-1304
SANDRA J. SCHUDER	254 W 234TH ST		CARSON	CA	90745-5213
SANDRA J. SCHUDER	50260 85TH STREET W		LANCASTER	CA	93536
SANDRA JADIDOLLAH	8605 AIRDROME ST		LOS ANGELES	CA	90035-4409
SANDRA JOHNSON	42444 28TH ST W		LANCASTER	CA	93536-4019
SANDRA KNUDSEN	PO BOX 6234		LANCASTER	CA	93539-6234
SANDRA MCCRAE	PO BOX 2423		LANCASTER	CA	93539-2423
SANDRA OSBORNE	PO BOX 233		BORON	CA	93596-0233
SANG CHANG	328 QUAY ST		LAKEWOOD	CO	80226-1700
SANGKYU LEE	19725 ALYSSA DR		SANTA CLARITA	CA	91321-2144
SANJUAN JUAN J JR; ALICIA	SANJUAN FAMILY	48812 90TH ST E	LANCASTER	CA	93535-7911
SANJUANITA SERMON	1340 97TH ST W		ROSAMOND	CA	93560
SANTIAGO GUZMAN	2407 E 109TH ST		LOS ANGELES	CA	90059-1409

SANTIBANEZ ROSELIA / JAGUARES TRUST	47431 4TH ST W		LANCASTER	CA	93534-7506
SANTOS CAPILLA	6542 GASKELL RD		ROSAMOND	CA	93560-7131
SANTOS CASTRO	321 E 97TH ST		INGLEWOOD	CA	90301-4201
SANTOS JUAN C / GARCIA ZOILA	37361 MANGROVE DR		PALMDALE	CA	93551
SARA BOWERMAN	1558 DAUNTING DR		EL DORADO HLS	CA	95762-7658
SARAH DANE	PO BOX 6386		LANCASTER	CA	93539-6386
SARAH NELSON	PO BOX 554		BORON	CA	93596-0554
SAUL PEREZ	2922 BROADWAY		HUNTINGTON PARK	CA	90255-6434
SAXON MORTGAGE SERVICES INC	155 N LAKE AVE		PASADENA	CA	91101-5615
SAXON MTG SVCS INC	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
SAYLES CHRISTOPHER M / SAYLES VICKY E	29424 123RD ST E		PEARBLOSSOM	CA	93553-3408
SCARBOROUGH MARTIN W JR	321 W AVENUE G		LANCASTER	CA	93534-7606
SCARUFFI JOSEPH	13257 E AVENUE H		LANCASTER	CA	93535-8721
SCHAEFFING JAMES; REBECCA	SCHAEFFING FAMILY	4517 CINNABAR AVE	PALMDALE	CA	93551-1855
SCHEIRE PUTNAM	5527 105TH ST W		WILLOW SPRINGS	CA	93560-7500
SCHILLING LAWRENCE; MARY	SCHILLING FAMILY	11317 E AVENUE E	LANCASTER	CA	93535-8005
SCHLENER PAT	PO BOX 412		HAYDEN	ID	83835-0412
SCHMELKA LOUISE L	5859 E AVENUE E		LANCASTER	CA	93535-7846
SCHNAIDT THEODORE B JR	17500 E PALMDALE BLVD		LLANO	CA	93544-1462
SCHNEIDER PAUL G / SCHNEIDER CINDY D	7704 W AVENUE H		LANCASTER	CA	93536-8109
SCHNELL ROBERT / SCHNELL PEGGY	36852 ZINNIA ST		PALMDALE	CA	93550-7380
SCHOTT DOUGLAS D / SCHOTT DEBORAH L	8658 E AVENUE H		LANCASTER	CA	93535-7903
SCHRAMM LEE T / SCHRAMM LYNN D	47650 50TH ST E		LANCASTER	CA	93535-7704
SCHROEDER CORINNE	3637 2ND AVE		LA CRESCENTA	CA	91214-2433
SCHWEIIIZER JACK A	SCHWEIZER; LEVI /TR	22711 W AVENUE D13	LANCASTER	CA	93536-9109
SCOTT BAILEY	10937 EL DORADO AVE		ROSAMOND	CA	93560-7293
SCOTT BECKETT	43357 43RD ST W		QUARTZ HILL	CA	93536-5522
SCOTT BUTCHER	PO BOX 720193		PINON HILLS	CA	92372-0193
SCOTT CASPER	44447 VALLEY CENTRAL WAY # 417		LANCASTER	CA	93536-6529
SCOTT EPPS	PO BOX 2423		ROSAMOND	CA	93560-2423
SCOTT HARTER	2057 100TH ST W		ROSAMOND	CA	93560-7054
SCOTT KLING	1717 HUNTINGTON DR APT 8		SOUTH PASADENA	CA	91030-4832
SCOTT MC DONALD	PO BOX 34		MOJAVE	CA	93502-0034
SCOTT NELSON	47520 180TH ST W		LANCASTER	CA	93536-9721
SCOTT NGUYEN	5002 W MCFADDEN AVE SPC 3		SANTA ANA	CA	92704-1169
SCOTT NGUYEN	5002 W MCFADDEN AVE SPC 3		SANTA ANA	CA	92704-1169
SCOTT ROKEY	1801 65TH ST W		ROSAMOND	CA	93560-6521
SCOTT STOGNER	12235 SIERRA VIEW ST		BORON	CA	93516-1339
SCOTT ZINN	PO BOX B1		ROSAMOND	CA	93560
SEBASTIAN MALONE	19574 CASTILLE LN		SANTA CLARITA	CA	91350-3875
SECURITY TITLE CALIFORNIA LLC TR	3053 RANCHO VISTA BLVD # H373		PALMDALE	CA	93551-4823
SEGEH GOSPEL MISSION INC	PO BOX 2868		RANCHO CUCAMONGA	CA	91729-2868
SELENE RMOF REO ACQUISTIONS LL	9990 RICHMOND AVE # 100		HOUSTON	TX	77042-4559
SERGIO TAMAYO	2259 DWIGHT CT		ROSAMOND	CA	93560-5937
SERRANO ENEDINA	4600 VIA DOLCE # 2118		MARINA DEL REY	CA	90292-6790
SERRANO PABLO / SERRANO TRINIDAD	48950 130TH ST W		LANCASTER	CA	93536-9722
SETTHA EMPREMSILAPA	17808 NORAN CIR		CERRITOS	CA	90703-8719
SEVERIANO MORALES / SEVERIANO EULALIA	43504 KIRKLAND AVE	APT 166	LANCASTER	CA	93535-4690
SHAFFER TODD W	3729 140TH ST W		ROSAMOND	CA	93560-7485
SHAIK RAFI	3480 GRANADA AVE APT 193		SANTA CLARA	CA	95051-3426
SHAJEE SIDDIQUI	4313 MANORVIEW CT		MOORPARK	CA	93021-2791
SHALAINE FINK	24261 CHAPARRAL AVE		BORON	CA	93516-1305
SHANDA COYLE	10714 YUCCA AVE		ROSAMOND	CA	93560-7516
SHANE ALLEN	10633 PINECREST MESA RD		JUNIPER HILLS	CA	93543-4231
SHANE DUNCAN	3681 NEVADA AVE		PAHRUMP	NV	89048-5975
SHANIE MATEIRO	12349 SIERRA VIEW ST		BORON	CA	93516-1341
SHANNON INGRAM	2455 VEGAS VIC ST		HENDERSON	NV	89002-9300
SHANNON LAREN	PO BOX 105		VALYERMO	CA	93563-0105
SHANNON YAMASHIRO	4828 LOOP CENTRAL DR		HOUSTON	TX	77081-2212
SHANTHA MONY	869 BIRCH HILL ST		THOUSAND OAKS	CA	91320-4063
SHAO WU	24600 GARDENSTONE LN		WEST HILLS	CA	91307-3808
SHAOSHIA LING	5631 TUFTS ST		DAVIS	CA	95618-7216
SHARLENE SZERDI	PO BOX 455		LLANO	CA	93544-0455
SHARON BREWER	2925 JEFFERIES ST		ROSAMOND	CA	93560-7900
SHARON CADUNGOG	673 FISHER CIR		FOLSOM	CA	95630-9541
SHARON DUVERNAY	20539 E AVENUE R		PALMDALE	CA	93591-4500
SHARON HOWARD	14650 BIG SKY DR		PEARBLOSSOM	CA	93553-3437
SHARON MACHLIK	8501 COLIMA RD		WHITTIER	CA	90605-1306
SHARON MC KENNA	2364 LUPINE TRL		BULLHEAD CITY	AZ	86442-8760
SHARON SHAW	PO BOX 903386		PALMDALE	CA	93590-3386
SHARON SMITH	PO BOX 763		ROSAMOND	CA	93560-0763
SHARON TREMBLAY	PO BOX 1910		ROSAMOND	CA	93560-1910
SHAVER CHRISTOPHER D	4039 E AVENUE L		LANCASTER	CA	93535-8200
SHAW CAROL A / SYLVAS LONNIE	14651 S FRAILEY AVE		COMPTON	CA	90221-2511
SHEA NANCY LIVING TRUST	27710 JUBILEE RUN RD		PEARBLOSSOM	CA	93553-3439
SHEELEY TRACY D / SHEELEY JAY T	4616 CINNABAR AVE		PALMDALE	CA	93551-1852
SHEILA AMENTO	BOX 1021		NORTH EDWARDS	CA	93523
SHEILA CARLE	PO BOX 13		ROSAMOND	CA	93560-0013
SHEILA WILSON	10816 MENDIBURU RD		CALIF CITY	CA	93505-2359
SHELBY JONES	9121 WALPOLE AVE		CALIF CITY	CA	93505-2203
SHELLEY DEDAUW	1520 DISC DR		SPARKS	NV	89436-4601
SHELLEY FRANCO	6316 GOBI AVE		ROSAMOND	CA	93560-7127
SHELLEY GAGE	24303 CHAPARRAL AVE		BORON	CA	93516-1307
SHELLY BASSO	PO BOX 2024		WARSAW	MO	65355-2024
SHELLYE ALLEN	45056 LOGUE CT		LANCASTER	CA	93535-2678
SHELMADINE CALL	26147 E AVENUE U10		LLANO	CA	93544-1586
SHENZHEN VALOR INVESTMENT LLC	18071 ARENTH AVE		CITY OF INDUSTRY	CA	91748-1223

SHEREE TOMPKINS	12764 HOLIDAY AVE		ROSAMOND	CA	93560-7163
SHERILYN HANSTAD	269 CAGEL ST		ROSAMOND	CA	93560-6905
SHERMAN DOLE	38610 140TH ST E		PALMDALE	CA	93591-2500
SHERRI DUMIN	PO BOX 1348		ROSAMOND	CA	93560-1348
SHERRI TORRES	3334 78TH ST W		ROSAMOND	CA	93560-6995
SHERRY ELLIS	15444 SPUNKY CANYON RD # 847		AGUA DULCE	CA	91390-4902
SHERRY EUZARRAGA	555 N EL CAMINO REAL		SAN CLEMENTE	CA	92672-6740
SHERRY HARRIS	PO BOX 1497		ROSAMOND	CA	93560-1497
SHERRY NAKAAHIKI	24286 JUNIPER AVE		BORON	CA	93516-1329
SHERVIN BAYAN	8627 PICKFORD ST APT 6		LOS ANGELES	CA	90035-4450
SHERYL CROFT	2608 60TH ST W		ROSAMOND	CA	93560-6988
SHERYL JENNINGS	PO BOX 2354		ROSAMOND	CA	93560-2354
SHIMEL MARIE P / DAVIDSON JAMES W	42612 70TH ST E		PALMDALE	CA	93552-1100
SHIRLEY ADAM	2224 50TH ST W		ROSAMOND	CA	93560-6488
SHIRLEY EASLER	5933 HOLIDAY AVE		ROSAMOND	CA	93560-6562
SHIRLEY EASLER	5933 HOLIDAY AVE		ROSAMOND	CA	93560-6562
SHIRLEY GERISCH	2608 60TH ST W		ROSAMOND	CA	93560-6988
SHIRLEY HARRINGTON	614 20TH ST W		ROSAMOND	CA	93560-6529
SHIRLEY HUANG	2089 PASEO NOCHE		CAMARILLO	CA	93012-9371
SHIRLEY MACFARLANE	1521 E AVENUE Q6		PALMDALE	CA	93550-4821
SHIRLEY POWERS	2410 HIDDEN HILLS LN		LINCOLN	CA	95648-8212
SHIRLEY SHOKRIAN	319 S ROBERTSON BLVD		BEVERLY HILLS	CA	90211-3602
SHIRLEY WILLIS L / SHIRLEY GLENDA M	9740 E AVENUE G10		LANCASTER	CA	93535-8425
SHOU LUNG HUANG	32857 REGENTS BLVD		UNION CITY	CA	94587-5410
SHUCHIN KOU	995 PASEO LA CRESTA		PALOS VERDES ESTATES	CA	90274-2058
SHULTIS REVOCABLE LIVING TR	6590 CONSTELLATION AVE		ROSAMOND	CA	93560-6504
SHULTS JOYCE REV LIV TRUST	PO BOX 537		ROSAMOND	CA	93560-0537
SID ESPINOZA	123 SUGARBUSH LN		NORTH LAS VEGAS	NV	89031-7960
SID FROMBERG	PO BOX 2575		LANCASTER	CA	93539-2575
SIEBERT JEFFREY L / SIEBERT NANCEE J	19235 W AVENUE C		LANCASTER	CA	93536-9282
SIEROTY DONNA A	39533 VICKER WAY		PALMDALE	CA	93551-1025
SIERRA HIGHWAY AND	23504 OAK VALLEY RD		CUPERTINO	CA	95014-6555
SILVER VELOZ	6427 FIRMAMENT AVE		ROSAMOND	CA	93560-6480
SIMENSEN JACK A / SIMENSEN BARBARA J	29550 118TH ST E		JUNIPER HILLS	CA	93543-4259
SIMON CHUNG	17231 HALSEY ST		GRANADA HILLS	CA	91344-2422
SIMON ROBERT J	17610 BIG PINES HWY		VALYERMO	CA	93563
SIMPLICIO MAPPALA	1251 W 82ND AVE		ANCHORAGE	AK	99518-2439
SIMPSON ROBERT A / SIMPSON LUCIANA	40826 GRANITE ST		PALMDALE	CA	93551-1806
SINA HAMIDI	7210 JORDAN AVE STE B15		CANOGA PARK	CA	91303-1357
SIU LI	1236 E MARIPOSA AVE		EL SEGUNDO	CA	90245-3222
SKINNERJOHN G / SKINNERJOHN GAYLE D	50240 90TH ST W		LANCASTER	CA	93536-9406
SMITH	PO BOX 598		ROSAMOND	CA	93560-0598
SMITH BILLIE M	9220 W AVENUE I		LANCASTER	CA	93536-8001
SMITH CHRISTOPHER J R / SMITH PAULA	7758 W AVENUE F		LANCASTER	CA	93536-8804
SMITH JODY L	43926 90TH ST W		LANCASTER	CA	93536-7702
SMITH LEANTHONY	13509 E AVENUE P		PALMDALE	CA	93591-1607
SMITH LISA	45124 93RD ST W		LANCASTER	CA	93536-7735
SMITH MICHAEL A	47052 5TH ST W		LANCASTER	CA	93534-7501
SMITH MICHAEL W	14016 FORT TEJON RD		PEARBLOSSOM	CA	93553-3407
SMITH ROBERT L ; LELA M / SMITH FAMILY	47038 4TH ST W		LANCASTER	CA	93534-7500
SMITH WOZNIAK	9909 CHARAN RD		ROSAMOND	CA	93560
SMITSKI THERESA	6248 E AVENUE H4		LANCASTER	CA	93535-8302
SOARING VISTA PROPERTIES INC	18500 VON KARMAN AVE STE 900		IRVINE	CA	92612-0526
SOCORRO GRIMALDO	44118 ELM AVE		LANCASTER	CA	93534-4431
SOCTT RINDFLEISCH	3708 MCNAB AVE		LONG BEACH	CA	90808-2216
SOFIA RIOS	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
SOFIA VIVAS	13505 SATICOY ST	APT 1	PANORAMA CITY	CA	91402-6437
SOLOMON TERRY	18348 W AVENUE D		LANCASTER	CA	93536-9270
SONIA ACOSTA	7969 STANSBURY AVE		PANORAMA CITY	CA	91402-5216
SOO LEE	808 W HEADWATERS DR		EAGLE	ID	83616-5750
SOO YEE	8538 LA MADRINA DR		ROSEMEAD	CA	91770-4302
SOON DICKY L	37218 THE GRVS		PALMDALE	CA	93551-6234
SORRENTO WEST PROPERTIES INC	3550 GENERAL ATOMICS CT		SAN DIEGO	CA	92121-1122
SOTOMAYOR RAFAEL / SOTOMAYOR MARTA	37701 STANDISH PL		PALMDALE	CA	93551-6951
SOU KERN UNIFIED SCH DIST	3082 GLENDOWER ST		ROSAMOND	CA	93560-7688
SPAIN PETE / SPAIN DIANE	18741 E PALMDALE BLVD		PALMDALE	CA	93591-4305
SPALINGER STEPHEN M	SPALINGER MARILYN A	12143 E AVENUE H	LANCASTER	CA	93535-8725
STACEY HUFFORD	PO BOX 1815		ROSAMOND	CA	93560-1815
STACEY LAMB	1514 57TH ST W		ROSAMOND	CA	93560-6915
STACY VOGT	11941 GASKELL RD		ROSAMOND	CA	93560-7055
STALLING MICHAEL L / LAMARR REBECCA L	31721 213TH ST E		LLANO	CA	93544-1552
STAMBACK CRAIG A / STAMBACK SARA J	50075 280TH ST W		LANCASTER	CA	93536-9241
STAN ALBRECHTA	235 CAGEL ST		ROSAMOND	CA	93560-6905
STANLEY BOYKIN	38237 171ST ST E		PALMDALE	CA	93591-3706
STANLEY CARTER	PO BOX 2421		ROSAMOND	CA	93560-2421
STANLEY EVANS	12400 SIERRA VIEW ST		BORON	CA	93516-1343
STANLEY NISHIMURA	1049 WESTCHESTER PL		LOS ANGELES	CA	90019-2014
STANLEY PETERSEN	8225 ILLAHEE RD NE		BREMERTON	WA	98311-9373
STANLEY WALTON	24242 CHAPARRAL AVE		BORON	CA	93516-1306
STAUTER DIANE M	46701 90TH ST W		LANCASTER	CA	93536-8012
STEDMAN KAREN	51203 110TH ST W		LANCASTER	CA	93536-9449
STEELE EXEMPTION TRUST B	1907 VIA MADONNA		LOMITA	CA	90717-3622
STEPHANIE DOZIER	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
STEPHANIE HOUGE	16869 W SUNSET BLVD		PACIFIC PALISADES	CA	90272-3206
STEPHANNIE HUTH	3500 75TH ST W		ROSAMOND	CA	93560-7179
STEPHEN ANDERSON	9742 VALJEAN AVE		NORTH HILLS	CA	91343-1936
STEPHEN BASSO	PO BOX 2024		WARSAW	MO	65355-2024

STEPHEN BAUER	11420 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4218
STEPHEN EMERSON	29475 N CANDLEWOOD DR		QUEEN CREEK	AZ	85243-3801
STEPHEN LEE	PO BOX 247		LLANO	CA	93544-0247
STEPHEN PATRICIA K	8158 W AVENUE J		LANCASTER	CA	93536-7713
STEPHEN ROHRBACHER	6316 GOBI AVE		ROSAMOND	CA	93560-7127
STERK FRANK M /LT / STERK MARGARET	12141 E AVENUE H		LANCASTER	CA	93535-8725
STERK JERRY A / STERK J A ; B L /TR	7847 E AVENUE I		LANCASTER	CA	93535-8306
STERLING ANDREW / STERLING JUDITH	18333 LANCASTER RD		LANCASTER	CA	93536-9021
STEVE BISHOP	6318 105TH ST W		ROSAMOND	CA	93560-6933
STEVE BRECKENRIDGE	24157 CHAPARRAL AVE		BORON	CA	93516-1303
STEVE CROSBY	6672 HOLIDAY AVE		ROSAMOND	CA	93560-6569
STEVE MORENO	5980 VALLEY SAGE RD		ACTON	CA	93510-1027
STEVEN BAUER	14375 BRIGHTSTAR AVE		ROSAMOND	CA	93560-7036
STEVEN BERNHEIM	13211 MULHOLLAND DR		BEVERLY HILLS	CA	90210-1143
STEVEN BREWER	2925 JEFFERIES ST		ROSAMOND	CA	93560-7900
STEVEN BREWER	2925 JEFFERIES ST		ROSAMOND	CA	93560-7900
STEVEN DREILING	357 HACIENDA DR		PALMDALE	CA	93551-7811
STEVEN DURHAM	PO BOX 813		LAKE HUGHES	CA	93532-0813
STEVEN FORD	11580 GENTLEWOOD DR		MOORPARK	CA	93021-3753
STEVEN GALE	PO BOX 44		ROSAMOND	CA	93560-0044
STEVEN GRIFFITH	3391 NW TERRACE DR		ALBANY	OR	97321-9366
STEVEN HAGINS	1231 EUCLID ST APT 6		SANTA MONICA	CA	90404-1037
STEVEN KNUDSEN	PO BOX 6234		LANCASTER	CA	93539-6234
STEVEN LITVAK	17762 PRESCOTT LN		HUNTINGTN BCH	CA	92647-6432
STEVEN MACLENNAN	8833 SHOSHONE AVE		NORTHRIDGE	CA	91325-3122
STEVEN MARCO	17884 LORRAINE AVE		NORTH EDWARDS	CA	93523-3538
STEVEN NORRIS	13669 FLINT ST		EDWARDS	CA	93523-3502
STEVEN PALLOW	PO BOX 395		LLANO	CA	93544-0395
STEVEN RHODEN	PO BOX 1280		PEARBLOSSOM	CA	93553-2280
STEVEN SERLIN	6501 IRVINE CENTER DR		IRVINE	CA	92618-2118
STEVEN SWICK	PO BOX 294		PEARBLOSSOM	CA	93553-0294
STEVEN TRUPP	47616 DIVISION ST		LANCASTER	CA	93535-6502
STEVEN WILSON	10816 MENDIBURU RD		CALIF CITY	CA	93505-2359
STEWART RACING PRODUCTS INC	99 WYOMING ST		BOULDER CITY	NV	89005-2803
STIX DALE W / STIX MELANIE	40809 SILTSTONE CT		PALMDALE	CA	93551-1853
STONE ALICE M / STONE MARILYN	46703 60TH ST W		LANCASTER	CA	93536-8500
STONER DANIEL T / STONER LISA	48321 70TH ST E		LANCASTER	CA	93535-7866
STOUT JASON P / KLEIN STOUT STACY	42624 MERIDIAN WAY		LANCASTER	CA	93536-4555
STRAUSS OLIVER C / STRAUSS CAROLE L	40807 COBBLESTONE CT		PALMDALE	CA	93551-1850
STUART SIMS	PO BOX 1070		BORON	CA	93596-1070
SUBRAMANIAN RON ; C S TRUST	40810 RIVEROCK LN		PALMDALE	CA	93551-1203
SUE POPPINO	321 MONTECITO AVE		MONTEREY	CA	93940-3822
SUE SORENSEN	1852 MARY RD		ACTON	CA	93510-1493
SUMALBAG ERIBERTO P	SUMALBAG GENOVEVA R	47637 70TH ST W	LANCASTER	CA	93536-8802
SUN HUI YIM	30014 233RD ST E		LLANO	CA	93544-1570
SUN KIM	27366 DEARBORN DR		VALENCIA	CA	91354-1870
SUNG KO	4711 ROCKLAND PL		LA CANADA FLINTRIDGE	CA	91011-1431
SUNG SHIN	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
SUNG YOON	1001 STARBUCK ST APT K301		FULLERTON	CA	92833-5704
SUNIL DESILVA	18924 STRATHERN ST		RESEDA	CA	91335-1122
SUSAN AUSTIN	1612 SUSSEX CT		PALMDALE	CA	93550-6998
SUSAN DAVID	78 AMBERWOOD CIR		S SAN FRAN	CA	94080-3462
SUSAN EDWARDS	PO BOX 5863		LANCASTER	CA	93539-5863
SUSAN EVANS	PO BOX 560		PEARBLOSSOM	CA	93553-0560
SUSAN FERNANDEZ	18427 STUDEBAKER RD APT 250		CERRITOS	CA	90703-5325
SUSAN FORBES	228 55TH ST W		ROSAMOND	CA	93560-6525
SUSAN JENKINS	7916 GASKELL RD		ROSAMOND	CA	93560-7277
SUSAN POWARZYNSKI	47505 172ND ST W		LANCASTER	CA	93536-9000
SUSAN WETZEL	7738 BACKUS RD		MOJAVE	CA	93501-7162
SUSANA MARTINEZ	11040 LORNE ST	APT 230	SUN VALLEY	CA	91352-3976
SUSANA TARAU	PO BOX 2964		CORONA	CA	92878-2964
SUSIE BROOKS	PO BOX 5776		LANCASTER	CA	93539-5776
SUZAN MACISAAC	2100 POPLAR ST		ROSAMOND	CA	93560-7660
SUZANNE JONES	1967 65TH ST W		ROSAMOND	CA	93560-6568
SUZANNE LEONE	4712 67TH ST W		ROSAMOND	CA	93560-9003
SUZI STEFFENS	5138 60TH ST W		ROSAMOND	CA	93560-6551
SYLVESTER JACKSON	PO BOX 2328		ROSAMOND	CA	93560-2328
SYLVIA HARRISON	24372 JUNIPER AVE		BORON	CA	93516-1364
SYLVIA KANATSKY	PO BOX 505		RUNNING SPRINGS	CA	92382-0505
SYLVIA STEGMAN	4636 E AVENUE H		LANCASTER	CA	93535-7718
SYNTHEA JONES	513 S LA BREA AVE		INGLEWOOD	CA	90301-2723
TAKASHI KONO	35130 SMALL RD		PALMDALE	CA	93550-9781
TALMAN AND TALMAN INC	6725 MESA RIDGE RD STE 204		SAN DIEGO	CA	92121-2925
TAMARA CAUDILL	41024 16TH ST W		PALMDALE	CA	93551-2145
TAMARA MULTHAUPT	3323 W FAIRCREST DR		ANAHEIM	CA	92804-3014
TAMARA VEGA	496 S COATE RD		ORANGE	CA	92869-4701
TAMELA BROWN	8549 UNDERWOOD AVE		CALIF CITY	CA	93505-3857
TAMMY VELAZQUEZ	30700 106TH ST E		LITTLEROCK	CA	93543-3640
TAMRA HALCOMB	908 60TH ST W		ROSAMOND	CA	93560-7238
TANIA CENTENO	9545 ARRINGTON AVE		DOWNEY	CA	90240-3401
TANYA SCHMIDT	PO BOX 123		PEARBLOSSOM	CA	93553-0123
TAPIA BROS INC	6500 W AVENUE N		PALMDALE	CA	93551-2855
TAREK ALY	3027 S VERMONT AVE		LOS ANGELES	CA	90007-3033
TARI PLANTE	PO BOX 2106		ROSAMOND	CA	93560-2106
TATE DAVID A / TATE MADELYN L	37707 STANDISH PL		PALMDALE	CA	93551-6951
TAYLOR SIMON	10240 E AVENUE F8		LANCASTER	CA	93535-8000
TCIF REO GCM LLC	1100 VIRGINIA DR		FORT WASHINGTON	PA	19034-3204

TED GREENWOOD	PO BOX 720160		PINON HILLS	CA	92372-0160
TED IVY	2830 INDIAN SPRINGS DR		LK HAVASU CTY	AZ	86406-8517
TEOFILO GERMONO	744 LINCOLN AVE UNIT A		ALAMEDA	CA	94501-3314
TERESA ALICER	1452 3RD ST		SIMI VALLEY	CA	93065-3206
TERESA KINDSCHI	24168 TAMARISK AVE		BORON	CA	93516-1346
TERESA LIPAROTE	14731 LAKEMONT RD		LAKE HUGHES	CA	93532-1322
TERESA LUM	136 WAVE ST		LAGUNA BEACH	CA	92651-1422
TERESA RISPOLI	503 ANZA PL		PALMDALE	CA	93551-7923
TERESA SCOTT	7330 GILA CT		PALMDALE	CA	93551-4719
TERESA VASQUEZ	2917 VIRGINIA AVE		SANTA MONICA	CA	90404-5031
TERRANCE BLACKBURN	1340 GRAY AVE	APT 16	YUBA CITY	CA	95991-3220
TERRANCE O CALLAGHAN	2382 60TH ST W		ROSAMOND	CA	93560-7192
TERRI BARKER	12235 SIERRA VIEW ST		BORON	CA	93516-1339
TERRI GONZALES	PO BOX 1981		LANCASTER	CA	93539-1981
TERRY BEALE	6144 W AVENUE K1		LANCASTER	CA	93536-1903
TERRY DRONET	PO BOX 1595		ROSAMOND	CA	93560-1595
TERRY JONES	4343 OCEAN VIEW BLVD APT 253		MONTROSE	CA	91020-1207
TERRY KUCHTA	PO BOX 188		PEARBLOSSOM	CA	93553-0188
TERRY LANDSIEDEL	PO BOX 1467		ROSAMOND	CA	93560-1467
TERRY RILEY	6110 BRENTWOOD AVE		LANCASTER	CA	93536-1790
TERRY ROBERSON	24140 TAMARISK AVE		BORON	CA	93516-1346
TERRY SOLOMON	18348 W AVENUE D		LANCASTER	CA	93536-9270
TESTA RAYMOND R JR / TESTA CARLA A	29422 125TH ST E		PEARBLOSSOM	CA	93553-3483
THACH NGUYEN	15217 SEVERYNS RD		TUSTIN	CA	92782-1797
THADDEUS HERMES	110 W C ST STE 2101		SAN DIEGO	CA	92101-3910
THALMA HARTZ	24336 JOSHUA AVE		BORON	CA	93516-1356
THEILE KARL / PALENCIA ETNA L	44705 31ST ST W		LANCASTER	CA	93536-8368
THEN CHAU	3176 DUNWICH CT		SAN JOSE	CA	95148-3656
THEODORE BROWNE	15200 SIERRA HWY		MOJAVE	CA	93501-1818
THEODORE EBENKAMP	1815 DEBANN PL		ROWLAND HEIGHTS	CA	91748-3213
THERESA BREHM	39602 179TH ST E		PALMDALE	CA	93591-3308
THERESA COSTELLO	24178 JUNIPER AVE		BORON	CA	93516-1328
THERESA GRIER	2951 59TH ST W		ROSAMOND	CA	93560-6274
THERESA KING	6209 GOBI AVE		ROSAMOND	CA	93560-7133
THERESA LEWANDOWSKI	5901 CATHY AVE		ROSAMOND	CA	93560-7231
THI NGO	3176 DUNWICH CT		SAN JOSE	CA	95148-3656
THO NGUYEN	2306 EMERALD HILLS CIR		SAN JOSE	CA	95131-2620
THOMAS APPLEBY	1525 60TH ST W		ROSAMOND	CA	93560-6574
THOMAS BROWN	1707 LARK ELLEN DR		FULLERTON	CA	92835-2139
THOMAS CAPRICCIO	PO BOX 94		LLANO	CA	93544-0094
THOMAS DE LANO	PO BOX 1211		ROSAMOND	CA	93560-1211
THOMAS DELANO	PO BOX 1211		ROSAMOND	CA	93560-1211
THOMAS FLANAGAN	9241 W AVENUE A		ROSAMOND	CA	93560-7083
THOMAS HOST	3170 N BUTTERCUP CIR		FREDERICK	CO	80516-9456
THOMAS HOUCHEN	19800 GASKELL RD		ROSAMOND	CA	93560-7245
THOMAS HOUCHEN	19800 GASKELL RD		ROSAMOND	CA	93560-7245
THOMAS HUGHES	303 N BUENA VISTA ST	APT 107	BURBANK	CA	91505-3669
THOMAS KEOGH	15635 FERNVIEW ST		WHITTIER	CA	90604-3338
THOMAS L. SCHUDER	50260 85TH STREET W		LANCASTER	CA	93536
THOMAS LA MOUREAUS	2091 N ST BONITA LN		CASA GRANDE	AZ	85122-6541
THOMAS LUCAS	20336 BASSETT ST		WINNETKA	CA	91306-3506
THOMAS MASTIN	2660 PEARBLOSSOM HWY		PALMDALE	CA	93550-9519
THOMAS MC INTOSH	6201 N 16TH ST APT 105		PHOENIX	AZ	85016-1751
THOMAS MURPHY	2135 N OXNARD BLVD		OXNARD	CA	93036-2362
THOMAS PALUMBO	1169 CURRY VILLAGE CT		MERCED	CA	95340-0696
THOMAS ROSQUIN	6464 FAVORITO AVE		ROSAMOND	CA	93560-6253
THOMAS SEELING	1476 DOWNING CT		CORONA	CA	92882-4776
THOMAS TAYLOR	PO BOX 1450		ROSAMOND	CA	93560-1450
THOMAS VEGA	3139 E GAINSBOROUGH RD		ORANGE	CA	92869-5137
THOMAS WARWICK	PO BOX 454		COTTAGE GROVE	OR	97424-0018
THOMAS WERNER	4210 COLUMBIA RD STE 4A		MARTINEZ	GA	30907-0403
THOMAS WILLIAM R / THOMAS DEBI S	46126 20TH ST E		LANCASTER	CA	93535-6003
THOMPSON ROLAND S / THOMPSON MARCIA L	50653 60TH ST W		LANCASTER	CA	93536-9551
THORO RACE MGMT INVESTMENTS INC	1436 GLENGARRY RD		PASADENA	CA	91105-1331
THRIFTY PAYLESS INC	PO BOX 3165		HARRISBURG	PA	17105-3165
THU KHINPHYU	10000 JACKSON AVE		SOUTH GATE	CA	90280-6404
TIA HUIE	818 E 109TH ST		LOS ANGELES	CA	90059-1016
TIBOR DOBRANSZKY	8502 ALLENWOOD RD		LOS ANGELES	CA	90046-1005
TIEDE EUGENE L	3147 E LANCASTER BLVD		LANCASTER	CA	93535-7719
TIEDE EUGENE L	3147 E LANCASTER BLVD		LANCASTER	CA	93535-7719
TIM NAM	PO BOX 6685		ROSEMEAD	CA	91770-6685
TIM RICE	2315 E PALMDALE BLVD STE G PMB A-31		PALMDALE	CA	93550-4959
TIM WHEELER	28827 LONGVIEW RD		PEARBLOSSOM	CA	93553-3403
TIMOTHY COYLE	10714 YUCCA AVE		ROSAMOND	CA	93560-7516
TIMOTHY JOHNSON	6754 E LOWE AVE		FRESNO	CA	93727-5823
TIMOTHY LUCKS	24315 TAMARISK AVE		BORON	CA	93516-1349
TIMOTHY MULTHAUPT	3323 W FAIRCREST DR		ANAHEIM	CA	92804-3014
TIMOTHY OCONNOR	37502 10TH ST W		PALMDALE	CA	93551-7702
TIMPLE SANTIAGO A / TIMPLE LUCITA V	7635 W AVENUE G		LANCASTER	CA	93536-8620
TIMUR TSKHVEDIANI	9141 TOBIAS AVE # B		VAN NUYS	CA	91402-1254
TINA DRIVDAHL	41118 RIMFIELD DR		PALMDALE	CA	93551-1843
TINA HATCHER	7005 E AVENUE G4		LANCASTER	CA	93535-7847
TODD FINK	24261 CHAPARRAL AVE		BORON	CA	93516-1305
TODD LITTRELL	3678 SUNSET VALLEY RD		MOORPARK	CA	93021-9747
TODD MOESSNER	24262 SAGE AVE		BORON	CA	93516-1334
TODD SHAW	7202 DAWN RD		ROSAMOND	CA	93560-6458
TOLEDO NOE / TOLEDO OLGA	10541 E AVENUE H		LANCASTER	CA	93535-8501

TOM BOURAS	2307 RICHLAND AVE		LOS ANGELES	CA	90027-1343
TOM LOFFLER	PO BOX 67		ROSAMOND	CA	93560-0067
TOM ROSS	PO BOX 86		VALYERMO	CA	93563-0086
TOMAS CARREON	6210 E AVENUE E		LANCASTER	CA	93535-7854
TOMAS CARREON	6210 E AVENUE E		LANCASTER	CA	93535-7854
TOMAS PULIDO	24360 CHAPARRAL AVE		BORON	CA	93516-1308
TOMASA ESCOBAR	3270 W 83RD ST		ROSAMOND	CA	93560
TOMBLIN AND ASSOCIATES	2501 W 237TH ST	STE E	TORRANCE	CA	90505-5227
TOMMY CASINGAL	3005 KIPPER COURT		LANCASTER	CA	93535
TOMMY HESTER	1949 ROYALTY DR		POMONA	CA	91767-3023
TOMMY WALKER	1941 E HUBER ST		MESA	AZ	85203-3936
TONI RABANI	1727 W 1ST ST		SAN PEDRO	CA	90732-3106
TONI WEBB	1561 MUSTANG DR		HENDERSON	NV	89002-8744
TONY HEWITT	512 SIERRA AVE		MOORPARK	CA	93021-1732
TONY JARJOURA	4409 HONEYSUCKLE LN		COHUTTA	GA	30710-9317
TONY LIPAROTE	14731 LAKEMONT RD		LAKE HUGHES	CA	93532-1322
TONYA RYKEN	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
TOPOR ELIZABETH A	22927 W AVENUE D		LANCASTER	CA	93536-9263
TORRES MIGUEL / TORRES DIANE	46208 30TH ST E		LANCASTER	CA	93535-7611
TRACEY ROY G SR / TRACEY WANDA R	46602 20TH ST E		LANCASTER	CA	93535-6013
TRACY HART	1682 60TH ST W		ROSAMOND	CA	93560-6957
TRACY LETHGO	PO BOX 1557		ROSAMOND	CA	93560-1557
TRACY PRITCHARD	8029 HAZEL AVE		ORANGEVALE	CA	95662-2104
TRACY THOMPSON	6723 GASKELL RD		ROSAMOND	CA	93560-7132
TRAVERS DAVID / TRAVERS JOYCE L	2802 EL CABALLO AVE		BAKERSFIELD	CA	93304-6220
TRAVIS BELL	601 5TH AVE		SCOTTSBLUFF	NE	69361-3581
TRAVIS DAY	25907 CHERRYHILL DR		BORON	CA	93516-1204
TRAVIS MARKLEY	PO BOX 1612		ROSAMOND	CA	93560-1612
TREMBLAY WALDEN	PO BOX 1910		ROSAMOND	CA	93560-1910
TRENOUTH	8716 W AVENUE E STE D6		LANCASTER	CA	93536
TRIBUZI JAMES / TRIBUZI ELSY	48721 227TH ST W		LANCASTER	CA	93536-9108
TRIMARK PACIFIC LANCASTER	PO BOX 470		AGOURA HILLS	CA	91376-0470
TRINA HOGE	20722 WHITE ST		TEHACHAPI	CA	93561-8713
TRINIDAD MORENO	45044 28TH ST E SPC 10		LANCASTER	CA	93535-2818
TRISHA SPEARS	24314 SAGE AVE		BORON	CA	93516-1336
TROY GREEN	42450 12TH ST W		LANCASTER	CA	93534-7082
TRUE HOLINESS CHURCH OF GOD	6019 DEVONSHIRE DR		PALMDALE	CA	93551-1637
TRUPP STEVEN R	47616 DIVISION ST		LANCASTER	CA	93535-6502
TRUST HOLDING SERVICE COMPANY TR	PO BOX 3836		CHATSWORTH	CA	91313-3836
TSANGCHI CHEN	19970 SCOTLAND DR		SARATOGA	CA	95070-5035
TU PHAM	325 S VICKI LN		ANAHEIM	CA	92804-2031
TUAN VO	3236 GRANADA AVE		EL MONTE	CA	91731-3328
TUCKER MARGARET M	42658 70TH ST E		PALMDALE	CA	93552-1100
TUNSTEN LLC	10100 SANTA MONICA BLVD STE 2430		LOS ANGELES	CA	90067-4141
TURNER GREGORY W / TURNER STEPHANIE R	30510 101ST ST E		JUNIPER HILLS	CA	93543-3666
TWO BOYS LLC AND	2025 E PALMDALE BLVD		PALMDALE	CA	93550-4036
TY NGUYEN	12314 MAILY MEADOWLANE		SUGAR LAND	TX	77478-6170
TYE LOCKARD	5588 WILLOW AVE		ROSAMOND	CA	93560-6731
TYLER BECK	27600 HARNESS DR		TEHACHAPI	CA	93561-6360
TYLER CHARLES W / TYLER BEVERLY A	18245 LANCASTER RD		LANCASTER	CA	93536-9020
TYRONE JONES	39468 AVIGNON LN		PALMDALE	CA	93551
U S BANK NATIONAL ASSN TR	800 STATE HIGHWAY 121 BYP		LEWISVILLE	TX	75067-4180
UBS REAL ESTATE SECURITIES INC	3476 STATEVIEW BLVD		FORT MILL	SC	29715-7203
UJU OGUINE	11733 KILLIMORE AVE		NORTHRIDGE	CA	91326-1511
UKWAMEDUA MARIAN U TRUST	9110 1/2 LEMONA AVE		NORTH HILLS	CA	91343-7818
ULLMAN PAUL S / ULLMAN LYNN S	7128 W AVENUE D8		LANCASTER	CA	93536-8814
UMSTED FAMILY TRUST	PO BOX 5		BORON	CA	93596-0005
UNION DISCOUNTS LTD	3700 WILSHIRE BLVD STE 990		LOS ANGELES	CA	90010-3089
UNITED PRINCIPAL INVESTMENT	47655 WARM SPRINGS BLVD		FREMONT	CA	94539-7490
US BANK	10790 RANCHO BERNARDO RD		SAN DIEGO	CA	92127-5705
US DISTRESSED MTG FUND LLC	1201 24TH ST		BAKERSFIELD	CA	93301-2300
VALARO MORRIS	24196 TAMARISK AVE		BORON	CA	93516-1346
VALENCIA ERLINDA / TRUPP STEVEN R	506 W AVENUE F		LANCASTER	CA	93534-7505
VALENZUELA JOEL R / VALENZUELA LENA N	126 E AVENUE E STE A		LANCASTER	CA	93535-6508
VALENZUELA JOEL R / VALENZUELA LENA N	126 E AVENUE E STE B		LANCASTER	CA	93535-6509
VALENZUELA JOEL R / VALENZUELA LENA N	126 E AVENUE E STE C		LANCASTER	CA	93535-6510
VALENZUELA JOEL R / VALENZUELA LENA N	126 E AVENUE E # D		LANCASTER	CA	93535-6507
VALERIE MARLOW	19859 SANDPIPER PL UNIT 115		NEWHALL	CA	91321-4302
VALERIE MARLOW	1235 SOLEDAD CANYON RD		ACTON	CA	93510-2402
VALERIE MARTINEZ	775 65TH ST W		ROSAMOND	CA	93560-7224
VALERIO CARLOS / VALERIO FLOR M	39532 VICKER WAY		PALMDALE	CA	93551-1024
VALLEY ANTELOPE	2315 E PALMDALE BLVD STE G		PALMDALE	CA	93550-4959
VAN DEREYK CORNELIS / VAN DEREYK /TR	46723 65TH ST E		LANCASTER	CA	93535-7810
VAN HARRALD	PO BOX 252		BORON	CA	93596-0252
VAN NORMAN	736 80TH ST W		ROSAMOND	CA	93560-7025
VANANH NGUYEN	580 SOBRATO DR		CAMPBELL	CA	95008-4620
VANCE POMEROY	29319 121ST ST E		JUNIPER HILLS	CA	93543-4204
VANDAM DELMAR	7304 E AVENUE F		LANCASTER	CA	93535-7823
VANDIVER MARK R / VANDIVER DEBRA	44001 100TH ST E		LANCASTER	CA	93535-8423
VANGURI RAO / VANGURI SWARNA	40812 SLATE CT		PALMDALE	CA	93551-1805
VASSILEV WILLIAM	9365 W AVENUE I		LANCASTER	CA	93536-8010
VELDE VAN DE	6741 LINCOLN AVE SPC 124		BUENA PARK	CA	90620-5649
VELEZ VICTORIA / VELEZ SANDY	922 E 43RD PL		LOS ANGELES	CA	90011-3512
VENUS MCCARY	1757 TAPO CANYON RD		SIMI VALLEY	CA	93063-3391
VERA ALVISO	PO BOX 1268		ROSAMOND	CA	93560-1268
VERA SHEPHARD	PO BOX 2504		ROSAMOND	CA	93560-2504
VERA STEWART	24969 MULHOLLAND HWY		CALABASAS	CA	91302-2366

VERA STOVER	24224 TAMARISK AVE		BORON	CA	93516-1348
VERDIE PENN	PO BOX 570		LITTLEROCK	CA	93543-0570
VERL BUTLER	5675 W ROSAMOND BLVD		ROSAMOND	CA	93560-6263
VERN PERRY	5528 LENORE AVE		ARCADIA	CA	91006-5737
VERNA TIPTON	PO BOX 754		ROSAMOND	CA	93560-0754
VERNEDA TILLIS	PO BOX 882		LITTLEROCK	CA	93543-0882
VERNON BEAZEL	9740 E AVENUE G10		LANCASTER	CA	93535-8425
VERNON DENNY	PO BOX 954		MORRISON	CO	80465-0954
VERNON MULLINS	115 90TH ST W		ROSAMOND	CA	93560-7019
VERONICA FIORELLA	900 BIRMINGHAM RD		BURBANK	CA	91504-1911
VERONICA MUCHMORE	8409 RADIANT WAY		LAKE ISABELLA	CA	93240-9772
VICENTE MURILLO	10425 DALEROSE AVE		INGLEWOOD	CA	90304-1836
VICKI BELL	44149 BEGONIA ST		LANCASTER	CA	93535
VICKI MOFFET	PO BOX 106		MANHATTAN	MT	59741-0106
VICKI STEIN	2904 LA JARA RD		ROSWELL	NM	88201-9124
VICKIE GALE	PO BOX 44		ROSAMOND	CA	93560-0044
VICTOR CARRASCO	4837 WATT AVE		NORTH HIGHLANDS	CA	95660-5108
VICTOR ESCOBAR	PO BOX 41		LEBEC	CA	93243-0041
VICTOR HAMMAN	4601 SWEETSER RD		ROSAMOND	CA	93560-6454
VICTOR KUDELKA	4160 SUNNYSIDE RD		SANDPOINT	ID	83864-8074
VICTOR NERIA	1501 SUMMIT CIR		FULLERTON	CA	92833-1716
VICTOR TRUJILLO	419 E MAITLAND ST		ONTARIO	CA	91761-3316
VICTOR ZUNO	25186 PATTERSON RD		LANCASTER	CA	93536-9606
VICTORIA HANLEY	PO BOX 446		RIO LINDA	CA	95673-0446
VICTORIA MARQUEZ	809 W 149TH ST		GARDENA	CA	90247-2730
VICTORIA STAHOVICH	2638 57TH ST W		ROSAMOND	CA	93560-7254
VICTORIA TALAMO	42335 50TH ST W STE 101		QUARTZ HILL	CA	93536-3528
VIDRIO CELIA / GARCIA JULIO V	16645 VALENCIA AVE	APT 1B	FONTANA	CA	92335-0317
VILLASENOR CESAR Q / VILLASENOR TOMASA	43201 70TH ST E		LANCASTER	CA	93535-8615
VINCENT ROULEAU	11137 W ROSAMOND BLVD		ROSAMOND	CA	93560-7507
VINH DANG	8021 LUBAO AVE		WINNETKA	CA	91306-1930
VIOLA CRABB	310 S 11TH PL		ROGERS	AR	72756-4251
VIOLETA MONTOYA	2190 STRANG AVE		SAN LEANDRO	CA	94578-1144
VIOLETA UNABIA	1841 S WOOSTER ST		LOS ANGELES	CA	90035-4334
VIRGINIA CORDOVA	PO BOX 1145		ROSAMOND	CA	93560-1145
VIRGINIA FARLEY	PO BOX 247		PEARBLOSSOM	CA	93553-0247
VIRGINIA FORREST	24483 SAGE AVE		BORON	CA	93516-1337
VIRGINIA GUTIERREZ	2081 60TH ST W		ROSAMOND	CA	93560-6561
VIRGINIA KELLEY	30558 MAINMAST DR		AGOURA	CA	91301-1909
VIRGINIA MATSUI	325 S BOYLE AVE		LOS ANGELES	CA	90033-3812
VIRGINIA RAMOS	4708 MERCANTILE DR		FORT WORTH	TX	76137-3605
VIRGINIA REED	4697 GIBBS AVE		MOJAVE	CA	93501-7216
VITAL ORTEGA JUAN R / VITAL CARMEN	9627 W AVENUE B		LANCASTER	CA	93536-9420
VIVIAN CELENTANO	PO BOX 1083		ROSAMOND	CA	93560-1083
VLAD HIKIN	12330 OSBORNE ST UNIT 76		PACOIMA	CA	91331-2043
W MILLHOLLIN	8758 E BARSTOW AVE		CLOVIS	CA	93619-9231
W PENGILLEY	PO BOX 952		ROSAMOND	CA	93560-0952
WACHOVIA BANK TR	3476 STATEVIEW BLVD # 7801 013		FORT MILL	SC	29715-7203
WAGENBACH WALTRAUD	320 W TEMPLE ST	FL 8	LOS ANGELES	CA	90012-3286
WAKEFIELD RANDALL T	28556 CRUTHERS CREEK RD		PEARBLOSSOM	CA	93553-3423
WALKER GARY P / WALKER LADONNA	505 S VILLA REAL STE 204		ANAHEIM	CA	92807-3442
WALKER GEORGE / WALKER AUDREY	36948 165TH ST E		LLANO	CA	93544-1138
WALTER EASLER	5933 HOLIDAY AVE		ROSAMOND	CA	93560-6562
WALTER GRABE	PO BOX 57		PEARBLOSSOM	CA	93553-0057
WALTER HEALY	PO BOX 2425		ROSAMOND	CA	93560-2425
WALTER KUENTZ	13451 W AVENUE A		ROSAMOND	CA	93560-7290
WALTER LAMB	13038 W SUMMER POPPY ST		TUCSON	AZ	85743-7273
WALTER LANEY	12650 INGENUITY DR		ORLANDO	FL	32826-2703
WALTER MCCALMAN	6633 W AVENUE H10		LANCASTER	CA	93536-8414
WALTER MCCALMAN	6633 W AVENUE H10		LANCASTER	CA	93536-8414
WANDA BEALE	PO BOX 1850		ROSAMOND	CA	93560-1850
WANDA KYLE	12345 E AVENUE J		LANCASTER	CA	93535-8704
WANDA METTER	3151 E AVENUE H		LANCASTER	CA	93535-1607
WANDA STRUTH	44838 70TH ST E		LANCASTER	CA	93535-8312
WANICHA WILLIAMS	2504 SWAINSONS HAWK ST		STOCKTON	CA	95209-4277
WARD JAMES E / WARD ROCILLE M	6107 W AVENUE G		LANCASTER	CA	93536-8507
WARREN BELL	3955 OLYMPIAD DR		VIEW PARK	CA	90043-1131
WASHINGTON MUTUAL BANK FA	7255 BAYMEADOWS WAY		JACKSONVILLE	FL	32256-6851
WATERS JOHN R	2866 W AVENUE F		LANCASTER	CA	93536-9510
WATSON ANTHONY F	6363 W AVENUE H		LANCASTER	CA	93536-8330
WATSON BARRY / WATSON MARIA C	31375 208TH ST E		LLANO	CA	93544-1581
WATSON CLARK / WATSON DARLENE	48823 100TH ST E		LANCASTER	CA	93535-7919
WATSON JUDITH A	46460 KINGS CANYON RD		LANCASTER	CA	93536-9074
WATTS BRENDA J	11660 CHURCH ST	APT 282	RCH CUCAMONGA	CA	91730-8934
WAYNE HAND	PO BOX 431		ROSAMOND	CA	93560-0431
WAYNE ROWLEY	6588 BRABHAM AVE		ROSAMOND	CA	93560
WAYNE SCOTT	2263 BUSS CT		ROSAMOND	CA	93560-5939
WAYNE WIRT	PO BOX 253		LLANO	CA	93544-0253
WEALTHPOINT EQUITY VENTURES GR	9135 RESEDA BLVD STE A # 235		NORTHRIDGE	CA	91324-3050
WELLS FARGO	1270 NORTHLAND DR STE 200		MENDOTA HEIGHTS	MN	55120-1176
WELLS FARGO BANK NA	1820 E 1ST ST STE 220		SANTA ANA	CA	92705-4063
WELLS MICHAEL / WELLS JANICE	9663 W AVENUE I		LANCASTER	CA	93536-8005
WEN JAVIER	849 LEHIGH AVE		CHULA VISTA	CA	91913-2714
WENDI WASHINGTON	18930 SATICOY ST		RESEDA	CA	91335-1759
WENDY BAILEY	PO BOX 1525		LITTLEROCK	CA	93543-5525
WENDY WELBORN	24136 JUNIPER AVE		BORON	CA	93516-1328
WENTWORTH WOODYE	4161 DON JOSE DR		LOS ANGELES	CA	90008-2805

WERNER FRED / WERNER KAREN	49408 85TH ST W		LANCASTER	CA	93536-9444
WERTH NORMAN S / WERTH MARGARET A	48881 190TH ST W		LANCASTER	CA	93536-9081
WES BUTLER	8847 W AVENUE C14		LANCASTER	CA	93536-9435
WESLEY GEIGER	7963 ROLAND AVE		ROSAMOND	CA	93560-7057
WEST JEROMEC / WEST JAMES T	4308 W AVENUE A		ROSAMOND	CA	93560-7108
WEST ROBERT O / REYES MAGDALENA	2329 EVENING PRIMROSE AVE		PALMDALE	CA	93551-4184
WESTERN PACIFIC HOUSING INC	21300 VICTORY BLVD STE 700		WOODLAND HLS	CA	91367-7726
WHEELER RUSSELL / WHEELER MARIA M	9045 E AVENUE E		LANCASTER	CA	93535-7936
WHITEHOUSE RICHARD L	WHITEHOUSE SHEILA W	30401 104TH ST E	LITTLEROCK	CA	93543-3613
WHITESIDE EARL D	45408 160TH ST W		LANCASTER	CA	93536-9038
WILFREDO ORANTES	284 55TH ST W		ROSAMOND	CA	93560-6525
WILFREDO SEVILLA	36050 32ND ST E		PALMDALE	CA	93550-9213
WILFREDO VELAZQUEZ	30700 106TH ST E		LITTLEROCK	CA	93543-3640
WILKINS MARK E	PO BOX 418		LITTLEROCK	CA	93543-0418
WILLAIM BALTZER	3437 BONNIE HILL DR		LOS ANGELES	CA	90068-1325
WILLARD SLONEY	22510 E AVENUE Q		PALMDALE	CA	93591-4708
WILLETTA MAUPIN	PO BOX 900007		PALMDALE	CA	93590-0007
WILLEY	5792 TEHACHAPI WILLOW SPRINGS RD		ROSAMOND	CA	93560-7521
WILLIAM BORN	PO BOX 1908		ROSAMOND	CA	93560-1908
WILLIAM BOWER	5531 CHARAN RD		ROSAMOND	CA	93560-6952
WILLIAM BRANES	27011 BARNES RANCH RD		LANCASTER	CA	93536-9713
WILLIAM BRIDE	5330 SULTANA AVE		TEMPLE CITY	CA	91780-3049
WILLIAM CHASTEEN	PO BOX 2638		BEVERLY HILLS	CA	90213-2638
WILLIAM CORDOVA	PO BOX 1145		ROSAMOND	CA	93560-1145
WILLIAM COZBY	PO BOX 1		VALYERMO	CA	93563-0001
WILLIAM DOUTHITT	PO BOX 55214		VALENCIA	CA	91385-0214
WILLIAM DRIVDAHL	41118 RIMFIELD DR		PALMDALE	CA	93551-1843
WILLIAM EDMONDS	3601 REDLANDS DR		BAKERSFIELD	CA	93306-2123
WILLIAM FORREST	24483 SAGE AVE		BORON	CA	93516-1337
WILLIAM GUTIERREZ	10332 MAYBROOK AVE		WHITTIER	CA	90603-2619
WILLIAM HASTINGS	6359 SWEETSER RD		ROSAMOND	CA	93560-6555
WILLIAM HAYES	33456 STEELE ST		AGUA DULCE	CA	91390-2728
WILLIAM HEFFERNAN	PO BOX 165		PEARBLOSSOM	CA	93553-0165
WILLIAM HITT	78-1056 BISHOP RD		HOLUALOA	HI	96725-9700
WILLIAM JENNINGS	PO BOX 2354		ROSAMOND	CA	93560-2354
WILLIAM KIPP	PO BOX 35508		SAN DIEGO	CA	92163
WILLIAM KOOKEN	PO BOX 385		PEARBLOSSOM	CA	93553-0385
WILLIAM LA ROUX	1854 N CARLSBAD ST		ORANGE	CA	92867-3367
WILLIAM LEWIS	887 VIA MANZANAS		SAN LORENZO	CA	94580-2835
WILLIAM MAYNARD	1333 HIDALGO CIR		ROSEVILLE	CA	95747-7238
WILLIAM MC LAIN	PO BOX 1909		ROSAMOND	CA	93560-1909
WILLIAM MCAFEE	46047 100TH ST E		LANCASTER	CA	93535-8422
WILLIAM MILLER	12401 EL MIRAGE ST		BORON	CA	93516-1318
WILLIAM MILLER	27095 JEROME ST		BORON	CA	93516-1631
WILLIAM MOORE	7801 GALLUP DR		BAKERSFIELD	CA	93309-7537
WILLIAM MOORE	7801 GALLUP DR		BAKERSFIELD	CA	93309-7537
WILLIAM SAUNDERS	823 FORESTON DR		ACTON	CA	93510-1837
WILLIAM SHOOP	PO BOX 3452		EL SEGUNDO	CA	90245-8591
WILLIAM SIFFERMAN	5308 W AVENUE L6		QUARTZ HILL	CA	93536-4444
WILLIAM SLATTERY	2701 LOKER AVE W STE 140		CARLSBAD	CA	92010-6637
WILLIAM STAROSTKA	39166 240TH ST E		PALMDALE	CA	93591-4700
WILLIAM UTVICH	PO BOX 367		ROSAMOND	CA	93560-0367
WILLIAM WHEELER	1204 E SANTA PAULA ST		SANTA PAULA	CA	93060-2237
WILLIAM WOODS	180 CABRINI BLVD APT 19		NEW YORK	NY	10033-1147
WILLIAMS JEFFERSON N	WILLIAMS NATASHA A	13200 DOTY AVE APT 205	HAWTHORNE	CA	90250-6253
WILLIAMS MARIA A	23415 W AVENUE C		LANCASTER	CA	93536-9289
WILLIAMS MARY O	18300 E AVE S		PALMDALE	CA	93591
WILLIAMS NANETTE	11030 CIMA MESA RD		LITTLEROCK	CA	93543-3606
WILLIS HADDOX	12721 JUNIPER HILLS RD		PEARBLOSSOM	CA	93553-3452
WILLOW SPRINGS CO	4040 MANLY RD		ROSAMOND	CA	93560-6930
WILMA ODELL	861 W BARREL SPRINGS RD		PALMDALE	CA	93551-7916
WILMA REASOR	38909 180TH ST E		PALMDALE	CA	93591-3500
WILSON	24333 JOSHUA AVE		BORON	CA	93516-1324
WILSON	12165 DEL ORO ST		BORON	CA	93516-1357
WILSON ANDREW J / WILSON TRUST	40801 SLATE CT		PALMDALE	CA	93551-1805
WILSON JOHN J SR	47815 40TH ST W		LANCASTER	CA	93536-9568
WILSON LEE JR / WILSON DONNA L	18130 W AVENUE F		LANCASTER	CA	93536-9058
WILSON PLUMMER	PO BOX 6194		LANCASTER	CA	93539-6194
WINIFRED OLIVER	12428 EL MIRAGE ST		BORON	CA	93516-1319
WINONA QUIRK	36517 HAROLD FIRST ST		PALMDALE	CA	93550-9347
WINSTON MADALE	7485 NEW HORIZON WAY BLDG 3		FREDERICK	MD	21703-8388
WINTER LONNIE E	30100 235TH ST E		LLANO	CA	93544-1519
WINTERS RAE E; JANET L	WINTERS RAE; JANET /TR	51260 100TH ST W	ROSAMOND	CA	93560-7165
WINTRESS BRYANT	1103 E GLADWICK ST		CARSON	CA	90746-3824
WM TIERNEY	24315 SAGE AVE		BORON	CA	93516-1335
WOLAK MICHAEL A	2827 W PILLSBURY ST		LANCASTER	CA	93536-6499
WOLFE JAMES D / WOLFE DAWN	4118 E AVENUE I		LANCASTER	CA	93535-8239
WOLFESNTEIN JOHN / WOLFESNTEIN JAMIE	5816 AVENIDA ESPLENDIDA		PALMDALE	CA	93551-1188
WOOD RICHARD / WOOD VIVIAN	4100 WATERVILLE CT		PALMDALE	CA	93551-5383
WOOD RICHARD A	45763 90TH ST E		LANCASTER	CA	93535-8402
WOODIE SAVAGE	12415 SIERRA VIEW ST		BORON	CA	93516-1344
WOODS JOHN A ; BETHEL I / WOODS FAMILY	46047 20TH ST E		LANCASTER	CA	93535-6002
WOODWARD DEBRA S	2017 W AVENUE K10		LANCASTER	CA	93536-4608
WOOLFORK ROBERT C / WOOLFORK RUTH P	47459 27TH ST W		LANCASTER	CA	93536-9570
WORLEY EDWARD L	11866 JUNIPER HILLS RD		LITTLEROCK	CA	93543-4207
WORRELL ELIZABETH A / WORRELL ROBERT C	51310 280TH ST W		LANCASTER	CA	93536-9238
XEROX LEASE EQUIPMENT LLC	PO BOX 6333		MAGNA	UT	84044-6333

YAHRAUS BILL / YAHRAUS ; ROSENTHAL /TR	11300 MANZANITA MESA RD		LITTLEROCK	CA	93543-4229
YALE/CHASE MATERIALS HANDLING INC	PO BOX 6333		MAGNA	UT	84044-6333
YAN TAN	128 LOOMIS RD		SOUTH WINDSOR	CT	06074-3649
YANG LEE	625 S BERENDO ST APT 205		LOS ANGELES	CA	90005-1737
YANG YANG	5353 SAN VICENTE BLVD	APT 33	LOS ANGELES	CA	90019-2731
YEGANHE JENNIFER L	44062 42ND ST W		LANCASTER	CA	93536-5869
YOGESH GORADIA	32063 PACIFICA DR		RANCHO PALOS VERDES	CA	90275-5763
YOLANDA BENITEZ	39031 230TH ST E		PALMDALE	CA	93591-4707
YOLANDA CHAHIN	2500 N VERDUGO RD		GLENDALE	CA	91208-2337
YOLANDA DREILING	357 HACIENDA DR		PALMDALE	CA	93551-7811
YOLANDA SANCHEZ	310 W ALONDRA BLVD		COMPTON	CA	90220-3713
YOON PARK	27328 ENGLISH OAK CT		CANYON COUNTRY	CA	91387-6869
YOONJI KIM	10225 HILLHAVEN AVE APT 101		TUJUNGA	CA	91042-3647
YORK ROBERT A / YORK SHARRON	44758 45TH ST W		LANCASTER	CA	93536-7603
YOSEMITE HOLDINGS INC	500 S GRAND AVE STE 1900		LOS ANGELES	CA	90071-2668
YOUNG OH	19151 LA QUINTA PL		APPLE VALLEY	CA	92308-2700
YOUNGSOOK KIM	28648 DEER SPRINGS DR		SANTA CLARITA	CA	91390-5741
YUNG CHAR	1115 JARROW AVE		HACIENDA HTS	CA	91745-2020
YVONNE ALLISON	11985 GASKELL RD		ROSAMOND	CA	93560-7055
YVONNE MORADO	1363 RIDGEMONT CT		OCEANSIDE	CA	92056-6621
YVONNE MORGAN	2053 65TH ST W		ROSAMOND	CA	93560-6535
ZACK NAIAD / ZACK JEANNETTE	22110 W AVENUE E11		LANCASTER	CA	93536-9192
ZAHER KHALAF	18566 DERBY CIR		HUNTINGTON BEACH	CA	92648-1565
ZAMRZLA JOHNNY; PAMELLA	ZAMRZLA FAMILY	48910 80TH ST W	LANCASTER	CA	93536-8740
ZAPPULLA THERESA C	3775 ACACIA CT		PALMDALE	CA	93551
ZEIDAN JIHAD M	3346 TWINCREEK CT		PALMDALE	CA	93551-1080
ZENEIDA HOUCHEN	19738 GASKELL RD		ROSAMOND	CA	93560-7243
ZENY MINDANAO	10954 BRADDOCK DR		CULVER CITY	CA	90230-4211
ZETTA GRIFFIN	13855 E WILDCAT WAY		PRESCOTT VALLEY	AZ	86315-9731
ZHIHUA SHEN	PO BOX 1661		PALO ALTO	CA	94302-1661
ZIMMERMAN HENRY JR	3353 W AVENUE C		LANCASTER	CA	93536-9500
ZOO YANG	2530 GREENFIELD AVE		ARCADIA	CA	91006-5229

EXHIBIT D

EXHIBITS B & D: NON-APPEARING PARTIES

Name	Answer / Appearance Date	DKT No
Romo Lake Los Angeles Partnership	12/8/2005	
Unison Investment, LLC	1/12/2006	
Landfield, Richard E.	11/13/2006	333
Kaufman, Lilian	12/20/2006	368
Kaufman, Lilian, trustee of Lilian Kaufman Trust	12/20/2006	368
Schwartz, Martin B., trustee of Burroughs Family Trust	12/21/2006	372
Cumming, Ruth A. as Ttee of the Cumming Family Trust	12/21/2006	373
Gabuya, Rodrigo L.	12/27/2006	379
David A, And Dorothy Kagon	12/27/2006	380
Kahlo, Jack D	12/27/2006	382
Gorrindo, Maria B.	12/27/2006	383
Bowers, David L.	12/28/2006	388
Recht, Patricia Anne	12/28/2006	390
Bowers, Ronald E.	12/28/2006	391
Gabrych, Eugene	12/28/2006	392
Gabrych, Marian	12/28/2006	393
Qarmout, Elias	12/28/2006	394
Airtrust Singapore Private	12/28/2006	395
ABC Williams Enterprises, LP	12/28/2006	396
Myers, Marilyn Burgess	12/28/2006	397
Katz, Marianne, trustee of the Katz Trust	12/29/2006	399
Katz, Herbert, trustee of the Katz Trust	12/29/2006	401
Hui, John	12/29/2006	402
United Holdings Corp.	12/29/2006	403
Loving, Robert A.	12/29/2006	404
Riggins, Patricia	12/29/2006	406
Jung, N. Tom	1/2/2007	410
Epsilon Development Co.	6/25/2007	
Prewoznik, Marilyn J.	5/22/2007	638
Prewoznik, Marilyn J., trustee of Prewoznik Trust	5/22/2007	638
Anaverde LLC	6/20/2007	673
Harris, Steven	7/9/2007	737
Britton Associates LLP	7/9/2007	737
Shokrian, Elias	7/10/2007	741
Bujulian Brothers	1/8/2008	1103
Antelope Valley Country Club	2/7/2008	1173
Cameron Properties	3/7/2008	1218
Gateway Triangle Properties	9/26/2008	2065
Bloom, Melody	9/13/2008	2014
Saloman, Franklin R., trustee Frankie Salomon Trust	9/23/2008	2051
EnXco Development Co	9/23/2008	2054
Eastly, Phillip	9/24/2008	2058
Gillman, Melinda	9/30/2008	2095
Melvin T. & Margaret E. Andrews, trusttees Andrews Trust	10/3/2008	2131

Max Webb Trust	10/20/2008	2161
John and Dora Buruchin	10/27/2008	2196
Robert D. and Shirley B. Raney	10/27/2008	2196
Three Arklin LLC	10/29/2008	2201
Mountain Brook Ranch LLC	10/29/2008	2202
Shakib, Kamram	12/2/2008	2299
Andrews, Franklin	6/23/2009	2923
Andrews, Treba	6/23/2009	2924
Lebata Inc.	7/8/2009	2965
Murphy, Patty	7/26/2009	3011
Balice, Norman	7/28/2009	3013
Balice, Maria	7/28/2009	3013
Chan, Hawk Nin	9/9/2009	3095
Collicut. Ikuko	9/9/2009	3096
Cabahug, Arlene	9/17/2009	3099
Cernicky, Florence, trustee of Cernicky Trust	10/27/2009	3171
Angelo And Dolores M. Cassara, Trustees Cassara Trust	10/27/2009	3171
Gaskell Suntower, LLC	7/8/2010	3689
Arklin Brother Enterprises	12/21/2010	4183
E.C. Wheeler	3/7/2011	4319
Cal Golf Inc.	12/10/2012	5398
Davis, Robert Glen	7/10/2014	9029
Antelope Valley Progressive Club	8/13/2014	9115
Annette And Bennie E. Moore	9/3/2014	9215
M&M Peach Ranch	10/3/20I4	9342
Goodyork Corp	8/6/2015	10295
Lancaster Summit Properties, LTD.	8/6/2015	10295
Hooshpack Dev Inc.	9/28/2015	10677
Renassiance Perinatal Medical Group	9/28/2015	10677
Jones, Robert A.	9/22/2005	1
Godde, Forrest	9/22/2005	1 / 411
Calandri, B.J.	11/28/2005	45 / 411
Calandri, Barbara J.	12/13/2007	1068
Godde, Lawrence	11/28/2005	45 / 411
Kootenai Properties	11/28/2005	45 / 411
Kyle, James	11/28/2005	45 / 411
Kyle, Wanda E.	11/28/2005	45 / 411
Hines Family trust	3/17/2006	174 / 411
Malloy Family Partners	3/17/2006	174 / 411
Santoro, Marygrace H.	3/17/2006	174 / 411
Stathatos, Helen	3/17/2006	174 / 411
Stathatos, Savas	3/17/2006	174 / 411
Groven, Dennis L.	12/1/2006	341 / 411
Groven, Majorie E.	12/1/2006	341 /411
Harter, Scott S.	12/1/2006	341 /411
Harter, Kay B.	12/1/2006	341 /411
Javadi, Habod	12/1/2006	341 /411

Kindig, Beverly A.	12/1/2006	341 / 411
Kindig, Eugene V.	12/1/2006	341 /411
Kindig, Paul S.	12/1/2006	341 /411
Kindig, Sharon R.	12/1/2006	341 /411
Tobias, Beverly	1/2/2007	411
Simi, Leo	1/2/2007	411
William Barnes & Eldora Barnes Fam Trust	1/2/2007	411
Gorrindo Family Trust	12/10/2010	4069
Cameo Ranching Co.	1/28/2011	4250
Kremen, Dr. Samuel	2/10/2011	4270
Son Rise Farms	1/18/2012	4758
Chavez, Luz	1/18/2012	4758
Zomorodi, Ramin	1/18/2012	4758
Genz Development & Castle Ranch Estate	1/18/2012	4758
Barnes, William	1/18/2012	4758
Barnes, Julie	1/18/2012	4758
Gorrindo, Robert	1/18/2012	4758
Gorrindo, Phillip	1/18/2012	4758
Healy Farms	1/18/2012	4758
Nelson, Michael	1/18/2012	4758
Wilson, Harold	2/6/2012	4814
Ritter, Edgar	11/28/2005	45
Paula Ritter	11/28/2005	45
Paula Ritter, as Trustee of the Ritter Family Trust	11/28/2005	45
Mark Ritter, successor trustee of the Ritter Family Trust	9/3/2015	10388

APPENDIX J
Hydrology Study

LAND DEVELOPMENT DIVISION
STORM DRAIN & HYDROLOGY UNIT

TO: NorthPoint Development DATE 4/22/24
ATTN: Jack Lac
CC: Chandler Elliott

REVIEW OF HYDROLOGY STUDY AND LID PLAN

PD/MTD. NO.	**N/A**	**DATE OF REPORT**	**04/18/2024**
CUP NO.	**RPPL2022013992**	**PLAN CHECK NO.**	**4**
		PLAN CASE NO.	**ESTU2023000671**

We have reviewed your Hydrology Study and LID Plan.

[X] The Hydrology Study has been approved.

[X] The LID Plan has been approved.

[X] Refer to comments below:

COMMENTS:

1. Work within soft bottom drainage areas (which may include but is not limited to soft bottom basins, channels, watercourses, grade to drain) will require maintenance permits from Fish and Game, Army Corps of Engineers, and RWQCB prior to approval of the storm drain, and the permits must be still active prior to acceptance.

2. No other encroachment or vertical infrastructure more than what is shown on the hydrology study and grading plans is to be constructed within the FEMA Flood Zone and County Floodplain/Floodway without any additional analysis.

REVIEWED BY _____
Alex Mikhailpoor - (626) 458-4921

APPROVED BY: Thong Ngov

RAINFALL DATA

CAPITAL STORM	
RECURRENCE INTERVAL	50-YEAR
RAINFALL DEPTH	2.6 INCHES
SOIL NUMBER	120

50-YEAR STORM

HYDROLOGY ANALYSIS POST			
SUB-AREA	IMP %	AREA	CFS
1A-14A	1	8.9	1.3
TOTAL	-	125	8.4

FLOW AND VOLUME BY STORM		
STORM	PEAK Q	VOLUME
2-YR	2.0	16,988
5-YR	3.5	31,363
10-YR	4.5	43,560
25-YR	5.7	61,855
50-YR	8.4	83,199

LEGEND

DRAINAGE MANAGEMENT AREA BOUNDARY
SUBAREA BOUNDARY
SUBAREA FLOW PATH

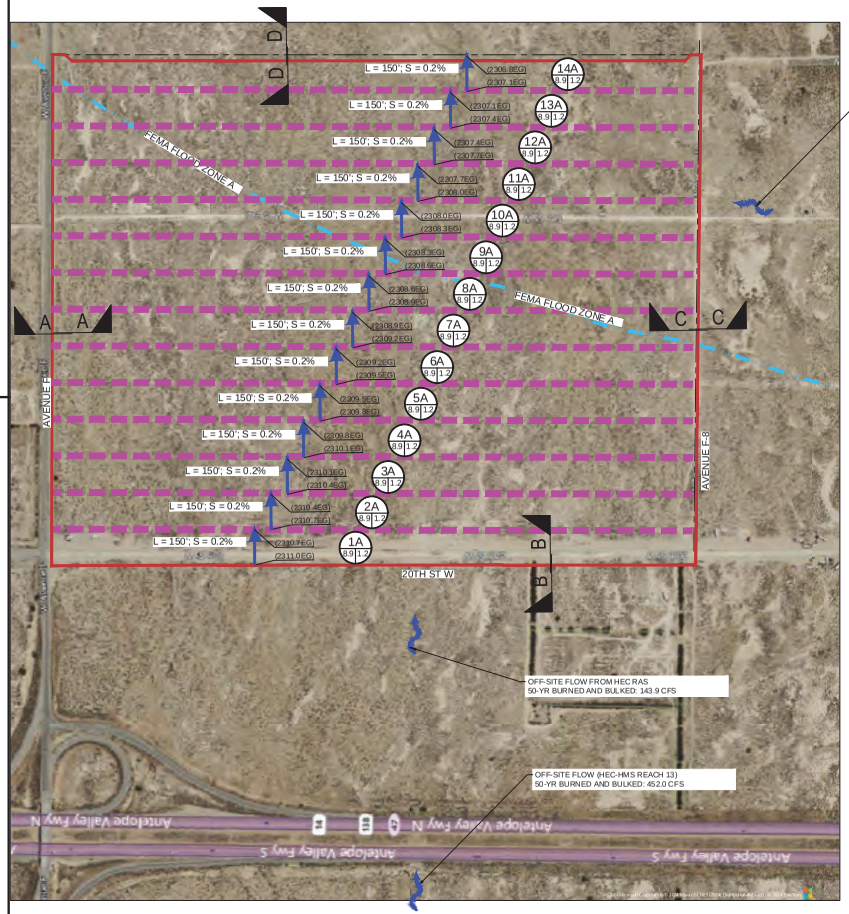
FLOOD ZONE BOUNDARY

DIRECTIONAL FLOW ARROW

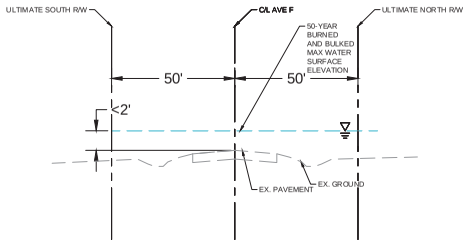
SUB AREA
XX
ACRES X.X X CFS*

*GENERATED USING HYDROCALC FOR 50-YEAR STORM

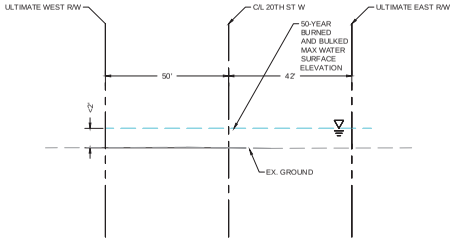
GRAPHIC SCALE
240 0 120 240 480 960
(IN FEET)
1 inch = 240 ft.



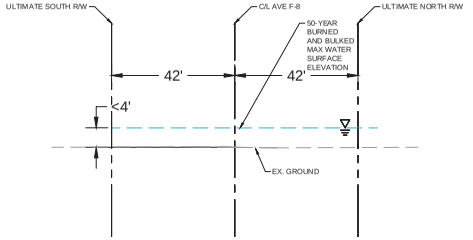
OFF-SITE FLOW FROM HEC RAS
50-YEAR BURNED AND BULKED: 2,843.6 CFS



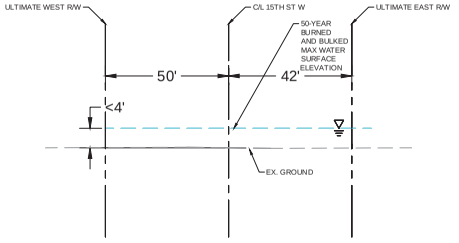
SECTION A-A
5x VERTICAL SCALE



SECTION B-B
5x VERTICAL SCALE



SECTION C-C
5x VERTICAL SCALE



SECTION D-D
5x VERTICAL SCALE

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REVIEWED BY: DATE: 04/22/24
APPROVED BY: Thang Nguyen DATE: 4/24/24
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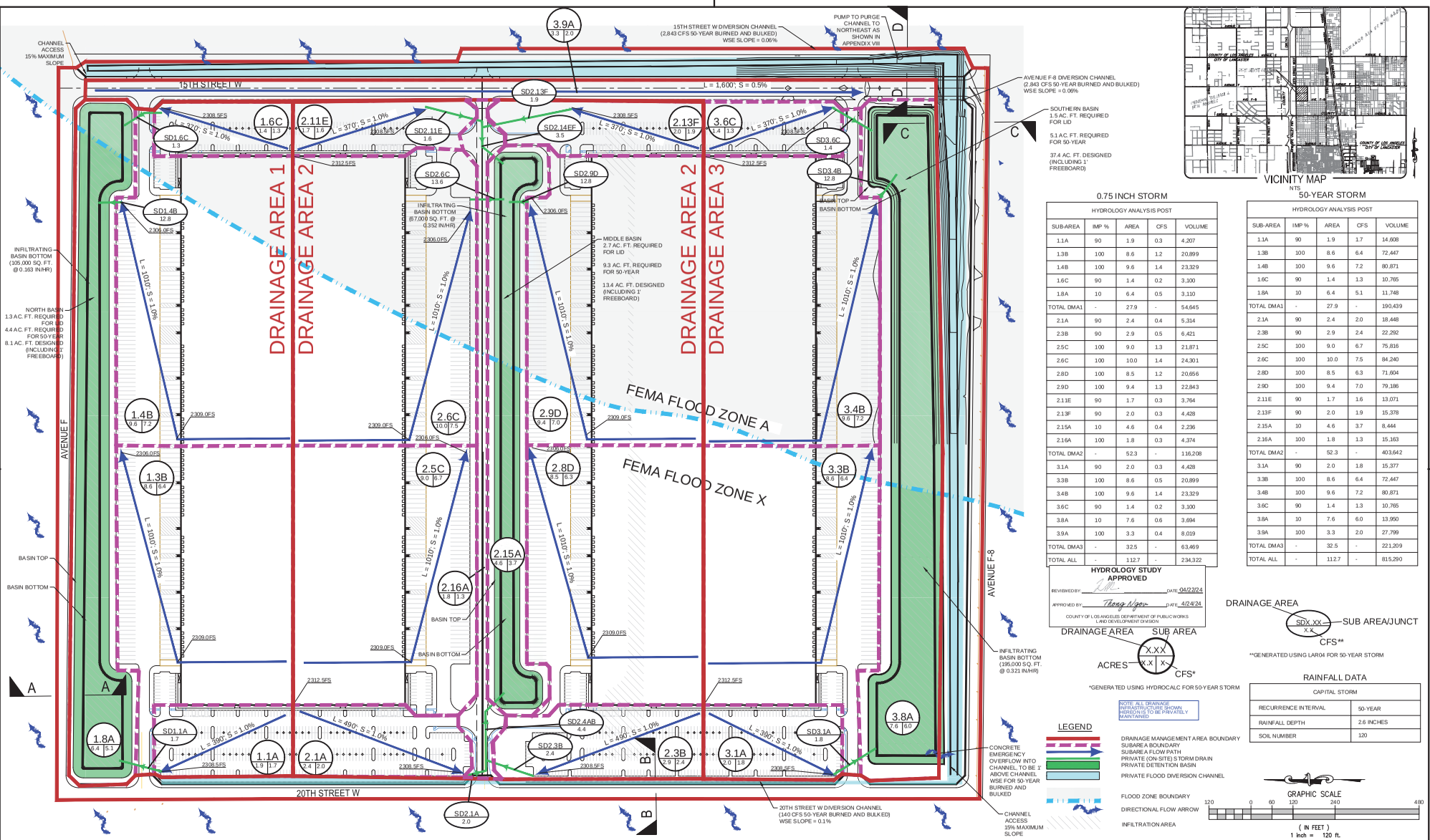
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DUKE ENGINEERING

REGISTERED PROFESSIONAL ENGINEER RYAN DUKE C70729 Exp. 6-30-24 CIVIL STATE OF CALIFORNIA

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COUNTY OF LOS ANGELES
PREDEVELOPED HYDROLOGY
NORTHPOINT AVLC WEST
AVENUE F & 20TH STREET WEST
LANCASTER, CA
ESTU2023000671 - RPPL2022013992

SCALE: PER PLAN
DESIGNED:ZP
DRAWN:ZP
CHECKED: RD
SHEET:
PROJECT NO.: 23136
SHEET NO.



VICINITY MAP
NTS

0.75 INCH STORM

HYDROLOGY ANALYSIS POST

SUB-AREA	IMP %	AREA	CFS	VOLUME
1.1A	90	1.9	0.3	4,207
1.3B	100	8.6	1.2	20,899
1.4B	100	9.6	1.4	23,329
1.6C	90	1.4	0.2	3,100
1.8A	10	6.4	0.5	3,110
TOTAL DMA1	-	27.9	-	54,645
2.1A	90	2.4	0.4	5,314
2.3B	90	2.9	0.5	6,421
2.5C	100	9.0	1.3	21,871
2.6C	100	10.0	1.4	24,301
2.8D	100	8.5	1.2	20,656
2.9D	100	9.4	1.3	22,843
2.11E	90	1.7	0.3	3,764
2.13F	90	2.0	0.3	4,428
2.15A	10	4.6	0.4	2,236
2.16A	100	1.8	0.3	4,374
TOTAL DMA2	-	52.3	-	116,208
3.1A	90	2.0	0.3	4,428
3.3B	100	8.6	0.5	20,899
3.4B	100	9.6	1.4	23,329
3.6C	90	1.4	0.2	3,100
3.8A	10	7.6	0.6	3,694
3.9A	100	3.3	0.4	8,019
TOTAL DMA3	-	32.5	-	63,469
TOTAL ALL	-	112.7	-	234,322

50-YEAR STORM

HYDROLOGY ANALYSIS POST

SUB-AREA	IMP %	AREA	CFS	VOLUME
1.1A	90	1.9	1.7	14,608
1.3B	100	8.6	6.4	72,447
1.4B	100	9.6	7.2	80,871
1.6C	90	1.4	1.3	10,765
1.8A	10	6.4	5.1	11,748
TOTAL DMA1	-	27.9	-	190,439
2.1A	90	2.4	2.0	18,448
2.3B	90	2.9	2.4	22,292
2.5C	100	9.0	6.7	75,816
2.6C	100	10.0	7.5	84,240
2.8D	100	8.5	6.3	71,604
2.9D	100	9.4	7.0	79,186
2.11E	90	1.7	1.6	13,071
2.13F	90	2.0	1.9	15,378
2.15A	10	4.6	3.7	8,444
2.16A	100	1.8	1.3	15,163
TOTAL DMA2	-	52.3	-	403,642
3.1A	90	2.0	1.8	15,377
3.3B	100	8.6	6.4	72,447
3.4B	100	9.6	7.2	80,871
3.6C	90	1.4	1.3	10,765
3.8A	10	7.6	6.0	13,950
3.9A	100	3.3	2.0	27,799
TOTAL DMA3	-	32.5	-	221,209
TOTAL ALL	-	112.7	-	815,290

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APPROVED BY: Thong Ngoo DATE 4/24/24
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LAND DEVELOPMENT DIVISION

DRAINAGE AREA | SUB AREA
ACRES | X.XX | X.X | X
CFS*
*GENERATED USING HYDROCALC FOR 50-YEAR STORM

DRAINAGE AREA
SDX.XX | SUB AREA/JUNCT
X.X | CFS**
**GENERATED USING LAR04 FOR 50-YEAR STORM

NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

RAINFALL DATA

CAPITAL STORM	
RECURRENCE INTERVAL	50-YEAR
RAINFALL DEPTH	2.6 INCHES
SOIL NUMBER	120

LEGEND
DRAINAGE MANAGEMENT AREA BOUNDARY
SUBAREA BOUNDARY
SUBAREA FLOW PATH
PRIVATE (ON-SITE) STORM DRAIN
PRIVATE DETENTION BASIN
PRIVATE FLOOD DIVERSION CHANNEL
FLOOD ZONE BOUNDARY
DIRECTIONAL FLOW ARROW
INFILTRATION AREA

GRAPHIC SCALE
120 0 60 120 240 480
(IN FEET)
1 inch = 120 ft.

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COUNTY OF LOS ANGELES
POSTDEVELOPED HYDROLOGY
NORTHPOINT AVLC WEST
AVENUE F & 20TH STREET WEST
LANCASTER, CA
ESTU2023000671 - RPPL2022013992

SCALE: PER PLAN
DESIGNED: ZP
DRAWN: ZP
CHECKED: RD
SHEET:
PROJECT NO.: 23136
SHEET NO.

County of Los Angeles
Hydrology Study

Northpoint AVLC West
Avenue F and 20th Street West
Lancaster, CA 93534
ESTU2023000671
RPPL2022013992

Prepared For:

Northpoint Development, LLC

6010 W Amelia Earhart Dr
ake City, UT 84116
816) 888-7380

HYDROLOGY STUDY
APPROVED
REVIEWED BY: _____ DATE 04/22/24
APPROVED BY: Thong Ngov DATE 4/24/24
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

Prepared By:

Duke Engineering
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Lancaster, California 93534
Phone: (661) 952-7918

REGISTERED PROFESSIONAL ENGINEER
RYAN DUKE
C079729
Exp 9-30-24
CIVIL
STATE OF CALIFORNIA

The Registered Professional Engineer Certifies that the Storm Drain Facilities have been designed in accordance with the Los Angeles County Engineering Design Guidelines Policies & Procedures.

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1. Introduction

The purpose of this study is to analyze the drainage conditions of a new project in unincorporated Lancaster, Los Angeles County. The report will be used to design new storm water facilities.

2. Approach

This study uses Los Angeles County methods and software such as the HydroCalc time of concentration calculator. Site survey and new grading plans are used to analyze predeveloped and postdeveloped flows. HEC-RAS is used to analyze predeveloped and postdeveloped flows for hydromodification requirements.

3. Project Location

The project site is located at the southeast corner of Avenue F and 20th Street West in unincorporated Lancaster, Los Angeles County.

4. Project Use

The project site will be developed for two 1 million square feet industrial buildings with associated parking, drive aisles, and truck docking areas.

5. Existing Conditions

The project site and all of its surrounding parcels are currently undeveloped. Avenue F to the north is partially improved and 20th street west to the west is a dirt road. The eastern part of the site currently sits within a FEMA flood zone A, indicating that a 100-year recurrence interval storm is expected to produce depths of 1' or greater in the existing condition. The tributary for this flood zone is the Amargosa Creek, which has as its tributary most of Lancaster, much of Palmdale, and the undeveloped Los Angeles County area to the southwest of the two cities. The Los Angeles County Flood Insurance Study shown in Appendix XXXVII shows the table of flowrates as well as the FEMA panel associated with the project site.

Stormwater generated on-site currently flows to the northeast. During large storm events, off-site flows enter the site along the southern property line and exits along the eastern property line. The flood insurance study in Section G of this report shows that Amargosa Creek has a tributary flow of 13,000 CFS for a 100-yr recurrence interval storm.

5.1 Hydrologic Analysis

While the LA County Flood Insurance Study hydrologic analysis completed in the 1980s is used later in this report for analyzing the FEMA flood zone, there was no hydrologic analysis for the Amargosa Creek that was performed using current LA County Hydrology standards. This section details the method used to calculate the 2-, 5-, 10-, 25-, and 50-year hydrographs that are tributary to the project site.

GIS data was used extensively in this analysis to ensure that calculations are as accurate as possible. Appendix XIV shows the terrain of the Antelope Valley, obtained from the USGS National Geospatial Program. Most of the Antelope Valley has been surveyed at a 3'x3' grid, which was used for this analysis. With this topography map as an input into HEC-HMS, the delineated subareas and reaches were created and are shown in Appendix XV. The characteristics associated

with these subbasins and reaches, determined using the 3'x3' topography, are tabulated in Appendices XVI and XVII respectively.

In order to determine the losses associated with rainfall, the USGS Soils Type Map that covers the tributary area was used and is shown in Appendix XVIII. It was assumed that there were no initial losses associated with this project, and a constant loss map was created using the Army Corps of Engineers' Loss Table shown in appendix XIX. The constant losses for each soils group were taken as the lowest value in the range provided by the Army Corps. Finally, the loss rate map was averaged over each subbasin to create the table shown in Appendix XIX.

The User Specified S-Graph method was used to transform rainfall data into subarea outflow data. The LA County Desert S-Graph, shown in Appendix XX, was used for this method. The program also requires an input for Lag Time; the Snyder Lag Time equation developed for the Los Angeles County area is shown in Appendix XXI, and the full transform table is shown in Appendix XXII. The NLCD land cover map and associated Manning's numbers, which were used in the Lag Time equation, is in Appendix XLIV.

The Muskingum-Cunge routing method was used to temporally route each subbasin's transformed hydrograph to the downstream junctions. The routing method requires inputs for reach length and slope which were determined using the previously mentioned reach characteristics table. In addition to these inputs, the manning's n, and width and side slope of the channel are required. As the reaches determined by HEC-HMS are irregular and change throughout each reach, some values were assumed. In reaches where there is clear evidence of channelized flows (i.e. through improved channels within the city or natural valley channels) manning's n was assumed to be between 0.03 and 0.04, and a channel section take from GIS terrain data was modeled; in reaches where it appears that flows are not well channelized (i.e. over flat desert ground), a manning's n of 0.1 is assumed and a 500' wide channel with 1000:1 side slopes is used. A map showing which reach is assumed to be channelized and which are not is shown in Appendix XXIII, and the summary table for all reaches is shown in Appendix XXIV.

Rainfall data for the entirety of LA County is available, and a map of rainfall depth associated with each storm is shown in Appendix XXV. The rainfall depth is averaged over each subbasin, and combined with the LA County Unit Hyetograph shown in Appendix XXVI to determine the rainfall at each subbasin.

The LA County Hydrology Manual describes the methodology used for calculating the burned hydrograph for a subarea. However, this method uses the LA County soils values compatible with their modified rational method, which is not used for this hydrology analysis. Instead, the highlighted subbasins shown in Appendix XXVII are changed to act as completely impervious by having removed these subbasin's loss rate as shown in Appendix XXVIII. This is a conservative estimate of flow rates produced by each storm as it would produce more outflow than the standard LA County method.

The LA County methodology of calculating bulking flows was used to create the maximum flowrate expected for the 50-year storm. The map of Debris Production Areas is shown in Appendix XXIX, and the calculation of the bulking factor is shown in Appendix XXX. The 50-year burned

hydrograph was multiplied by this bulking factor to determine the 50-year Burned and Bulked hydrograph, which is the largest storm event analyzed in this report.

Summary tables for each storm event are shown in Appendix XXXI. Reach 13 enters the site from west of the Antelope Valley Freeway, and Reach 1, the main Amargosa tributary, enters the site from the south. The locations of these reaches are also shown in Appendix I.

6. Proposed Conditions

The project site is approximately 120 acres. The project will construct two million square feet of building area as well as their associated parking and driveways. The rest of the project area will be utilized as either landscaping or stormwater management areas. The project will create about 89 acres of impervious area, which means that the site will be about 75% impervious. In the calculations, all areas are shown to be either 90% or 100% impervious, except for the subareas containing only drainage basins which are calculated using a 10% impervious ration. All proposed drainage infrastructure will be privately owned and maintained, including the new drainage channel discussed below.

In its post developed condition, the site will be divided into three drainage areas. The first drainage area includes half of the northern building, half of its associated parking, the truck docks to the north, and the northern private detention basin. The second drainage area includes the south half of the northern building, the north half of the southern building, half of their associated parking, the truck docks between the two buildings, and the middle private detention basin. The third and final drainage area includes the south half of the southern building, its associated parking, the truck dock to the south, the southern private detention basin, and Avenue F-8 to the south. These areas are shown in the Postdeveloped Hydrology Map in Appendix II. Each subarea contains its own storm drain and detention system. However, as the LID analysis below necessitates, the three basins will be hydraulically connected for infiltration purposes.

A new private channel, shown Appendix II, will be constructed around the site to protect it from flooding. As the ground is extremely flat, there is no possibility to daylight the channel to existing ground allowing free outfall. Instead, stormwater will cross Avenue F-8 during a large enough storm and fill the channel, at which point the channel will begin to flow to the east, cross under the interior street A, and then flow north. The southern and eastern edges of the private channel will be at or near the existing ground allowing the flows to return to their natural flow path with no additional energy dissipation necessary. The cross sections at the property boundaries show the new private channel dimensions as well as how stormwater will enter and exit while not combining with on-site flows.

As the private channel will not daylight, a pump is required. Channel purge calculations are shown in Appendix XII, which show that the pumps will purge the channel within the required 96 hours. As the channel is within the large Amargosa floodplain, the pump will not be able to purge the channel immediately as the Amargosa will still be ponded above the channel; around 72 hours after the modeled 50-year burned and bulked storm, the Amargosa will have receded beyond the channel, and the pump will purge stormwater over the next 96 hours. The Amargosa creek will still be ponded over this time period, the pumped stormwater will combine with ponded water just outside of the basin after being spread out to reduce the outflow velocity, which will eliminate erosion at the outlet. The pump schematic exhibit in Appendix VIII shows the previous information along with a figure of the Amargosa 4 days after the storm simulation begins. The pump and spreader shown in the exhibit will be within a private easement on the property to the east. This easement must be created prior to the construction of any off-site stormwater control.

7. Analysis

7.1 Rainfall Data

Table 1 below shows the rainfall data for the project obtained from the LA County Isohyet maps included in Appendix XLII.

Table 1: Rainfall Data

Information	Project Specific Values
Storm Frequency	50-Year
Rainfall Amount	2.6 inches
Soil Number	120

7.2 LA County Hydromodification Requirements

As this project will change flows upstream of an unimproved natural drainage system, hydromodification analysis will be required. The intention for this project is to fully retain and infiltrate on-site the largest storm event, 50-year, 24-hour.

The HydroCalc calculations for each subarea shown in the postdeveloped conditions map are shown in Appendix VI. The time of concentrations shown in these results are used in the LAR04 analysis shown in Appendix VII. This analysis gives the peak flow in each subarea on-site as well as the peak flow at each junction on-site which will be used to size underground storm drain.

The HydroCalc volumes for each subarea for the 50-year storm shown on the postdeveloped map are summed to obtain a total volume required to be infiltrated. This volume is the volume used in Appendix IX with the infiltration rates shown in Appendix X to show that the 50-year storm will be fully captured and infiltrated on-site within 96 hours.

7.3 LA County LID Compliance

This project is a designated project as it will add more than 10,000 square feet of impervious area. As such, the project is required to fully infiltrate the SWQDv associated with the project. As the project is industrial in nature, stormwater harvest is not feasible, so basin infiltration is used to meet LID requirements instead. Appendix VII shows the calculation of the 0.75-inch storm. However, since this storm is much smaller than the 50-year 24-hour storm, the previous section shows that the 0.75-inch storm will be infiltrated within the 96-hour drawdown period.

The project will be required to implement source control measures as specified in the LID Manual. These source control measures will include at least the Storm Drain Messages and Signage, Outdoor Trash and Storage and Waste Handling Area, Loading and Unloading Docks Area, and Irrigation Practiced.

In addition to these requirements, on-site basins and infiltration areas shall be monitored and kept free of debris. Maintenance will be necessary in the event that infiltration slows to below the infiltration specified in the infiltration report.

7.4 Upstream/Downstream Depth & Velocity Analysis

HEC-RAS two-dimensional flow analysis is used to analyze the Amargosa Creek in its predeveloped and postdeveloped conditions for the 2- through 50-year flow conditions as well as the 50-year Burned and Bulked storm calculated in HEC-HMS. The depth and velocity maps associated with each storm for the predeveloped condition are shown in Appendices XXXII and XXXIII respectively. The same is shown in Appendices XXXIV and XXXV for the postdeveloped condition. For each of these storms, a section along the project boundary was taken as shown in the maps. A table showing the comparisons between the predeveloped and postdeveloped storms along the project boundary is shown in Appendix XXXVI. In addition to the tabular data, Appendix XLV shows maps that were created that show any change in depth, velocity, and sedimentation from the predeveloped condition to the postdeveloped condition. This table shows that there is no increase in flow depth or velocity upstream of the project site to the south and west. The maps show that flows outside of the project area will be effectively unchanged from the predeveloped state.

7.4.1 Two-Dimensional Model Development

Publicly available high resolution (3'x3') LIDAR topography is available from USGS for land in LA County. This topography was used in both the predeveloped and postdeveloped models completed in HEC-RAS. For the postdeveloped model, the area within the project boundary was replaced with a new surface that reflects the essential parts of the proposed development to be modeled.

The model boundaries are west of the 14 freeway, south of Avenue G, east of Sierra Highway, and North of Avenue F. The area within the boundary is modeled as a two-dimensional net with 100'x100' resolution in most areas to reduce complexity. Important linear such as the Amargosa Creek, roadways, and railroad tracks are made more accurate using a 30'x30' resolution. The channel surrounding the site is at a resolution of 10'x10' as it most needs accurate hydraulic modeling.

There are two inflow boundary conditions in the model. The boundary condition from the south is taken from the HEC-HMS Reach 1 inflow hydrograph with a slope of 0.06%. The boundary condition from the west is taken from the HEC-HMS Reach 13 Hydrograph; this inflow is blocked by the freeway and ponds before it crosses the freeway by way of culverts implemented in the model. Finally, the outflow boundary condition to the northeast is set to outflow at a slope of 0.06%.

The model was built using the diffusion wave equations to find and correct any errors in the model. When the model was completed with no errors, the equation set was switched to the Full Momentum equation and run again; there was virtually no difference between the results of the two equation sets, so the final model uses the diffusion wave equations to reduce computation time.

Finally, NLCD land cover information was used in conjunction with the Army Corps of Engineer's manning's number table to assign manning's values to each cell. In the post developed condition, new impervious areas are assigned a manning's value of 0.013, and the new channels are assigned a manning's value between 0.03 and 0.07.

7.4.2 Channel Hydraulic Analysis

As the HEC-RAS model is a two-dimensional flow model, a section is taken perpendicular to and including the new private channel that analyzes the velocity in the channel when it is at its most full. This section shows that the maximum velocity in the channel is about 6 ft/sec. As the velocity in the channel is greater than 2 ft/sec, it is recommended that the private channel be protected with erosion control measures to prevent erosion.

7.5 FEMA Flood Zone Analysis

The following analysis shows that the current design will be able to meet FEMA's requirements to obtain a CLOMR, as prior to the approval of storm drain plans, an approved FEMA CLOMR must be submitted to the county.

The LA County Flood Insurance Study shown in Appendix XXXVII gives the off-site flows associated with the 100-year storm event as accepted by FEMA. The geometry used for the Amargosa Creek is shown in Appendix XXXVIII. The geometry is a one-dimensional channel that closely matches the FEMA flood zone shown with the Flood Insurance Study. The same channel sections are used for the predeveloped and postdeveloped conditions, except for the terrain which was updated for the postdeveloped conditions to match the new design. The predeveloped depth map, profile table, and sections tables are shown in Appendix XXXIX. The same exhibits are shown in Appendix XL for the postdeveloped condition. These exhibits show that there is effectively no increase to water surface elevation or velocity from the predeveloped to postdeveloped condition anywhere in the channel model. Therefore, the project will not impact the Amargosa floodplain.

7.5.1 One-Dimensional Model Development

Predeveloped and postdeveloped terrain and manning's values for the one-dimensional model are the same as those used for the two-dimensional model discussed in section 7.4.1. Cross sections were drawn perpendicular to the direction of flow, and elevation data and manning's values were assigned from GIS data. The upstream boundary condition is assigned a flowrate of 13,000 CFS per the LA County Flood Insurance Study shown in appendix XXXVII, and the model was set to analyze only the subcritical flow regime, as it produces the highest water surface elevation.

7.6 Sediment Transport Analysis

The HEC-RAS two-dimensional hydraulic model was implemented using the gradations of soil specified in the soils report created for this project. It was assumed that there is equilibrium at the flow boundaries in order to calculate if the project will cause an increase in sediment downstream. Also, unlike the models discussed previously in the report, the sedimentation modeling exclusively implements the Shallow Water Equations (SWE)v instead of using the diffusion method. Other modeling choices are discussed below.

7.6.1 Sediment Transport Equations

The Wu et al. sediment transport equations were used for this project. In *HEC-RAS 2d: Sediment Transport Theory,"* published in 2024 by USACE, it is stated that Wu is one of the three most popular equations used for 2D modeling, it is based on extensive lab and

field measurements, and is the most recent of the three most popular transport equations to be developed. It was also developed for nonuniform sediment, which applies to this project. Wu also developed the "Active Layer" sorting method, which is used in all HEC-RAS two-dimensional sediment modeling.

7.6.2 Fall Velocity Equations

The Soulsby fall velocity method is used for this project. In the same report mentioned in the previous section, it is recommended to "use Soulsby except for specific conditions." Also, the HEC-RAS 2D Sediment User Manual states that "the results are not very sensitive to the [Fall Velocity] formula."

7.6.3 Results

The results, shown in Appendix XLIII, indicate that the project will not cause an increase in bed change upstream or downstream of the project for either the 50-year Burned and Bulked or 2-year clear flow scenarios. Specifically, the appendix shows that for a storm with a 2-year recurrence interval, the project will not cause any measurable change in sedimentation at all. For a storm with a 50-year recurrence interval, any measurable changes will occur within the new channel to the east of this site; both degradation and aggregation will occur here, but the total of these will be equal on average meaning the property owner can remedy changes in bed elevation by redistributing the soil across the channel bed after a storm event.

As the 50-year burned and bulked and the 2-year clear flow storm models both do not show that the project will cause any sedimentation issues, it can be interpolated that the project will not cause sedimentation issues for storms that lie between these two in magnitude. Any scour of the channel itself will be combatted with erosion control measures, and sedimentation shall be monitored so that the private channel is cleared of any debris after a storm event.

8. Conclusion

In conclusion, the site has been assessed and stormwater runoff has been quantified to sufficiently size the proposed storm drain improvements.

Using the information discussed in this current report, it is our opinion that this study sufficiently analyses storm drain devices to safely collect and convey storm water run-off.

Sincerely,



Ryan Duke P.E.

RCE 79729

Principle Engineer

Appendix I: Predeveloped Conditions Map

RAINFALL DATA

CAPITAL STORM	
RECURRENCE INTERVAL	50-YEAR
RAINFALL DEPTH	2.6 INCHES
SOIL NUMBER	120

50-YEAR STORM

HYDROLOGY ANALYSIS POST			
SUB-AREA	IMP %	AREA	CFS
1A-14A	1	8.9	1.3
TOTAL	-	125	8.4

FLOW AND VOLUME BY STORM		
STORM	PEAK Q	VOLUME
2-YR	2.0	16,988
5-YR	3.5	31,363
10-YR	4.5	43,560
25-YR	5.7	61,855
50-YR	8.4	83,199

LEGEND

DRAINAGE MANAGEMENT AREA BOUNDARY
SUBAREA BOUNDARY
SUBAREA FLOW PATH

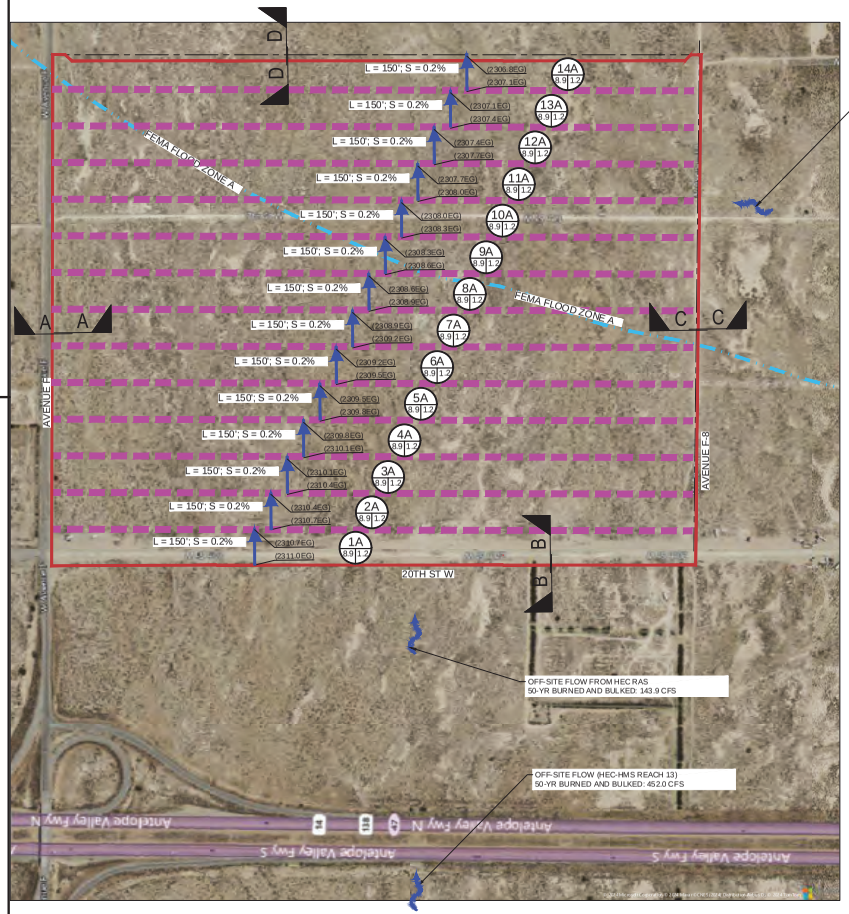
FLOOD ZONE BOUNDARY

DIRECTIONAL FLOW ARROW

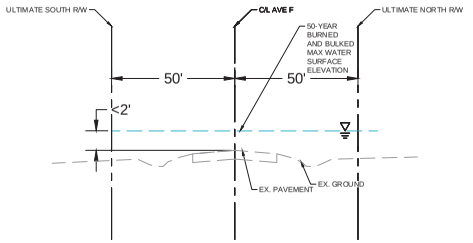
SUB AREA
XX
ACRES X.X X CFS*

*GENERATED USING HYDROCALC FOR 50-YEAR STORM

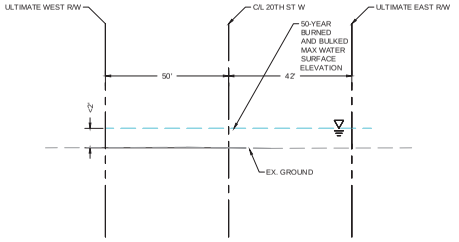
GRAPHIC SCALE
240 0 120 240 480 960
(IN FEET)
1 inch = 240 ft.



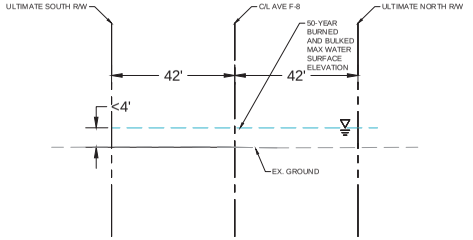
OFF-SITE FLOW FROM HEC RAS
50-YEAR BURNED AND BULKED: 2,843.6 CFS



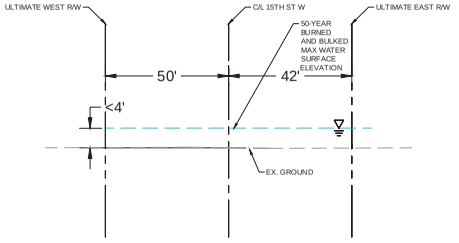
SECTION A-A
5x VERTICAL SCALE



SECTION B-B
5x VERTICAL SCALE



SECTION C-C
5x VERTICAL SCALE



SECTION D-D
5x VERTICAL SCALE

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△					
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△					
△					

COUNTY OF LOS ANGELES
PREDEVELOPED HYDROLOGY
NORTHPOINT AVLC WEST
AVENUE F & 20TH STREET WEST
LANCASTER, CA
ESTU2023000671 - RPPL2022013992

SCALE: PER PLAN
DESIGNED:ZP
DRAWN:ZP
CHECKED: RD
SHEET:
PROJECT NO.: 23136
SHEET NO.

Appendix II: Predeveloped Hydrocalc

Peak Flow Hydrologic Analysis

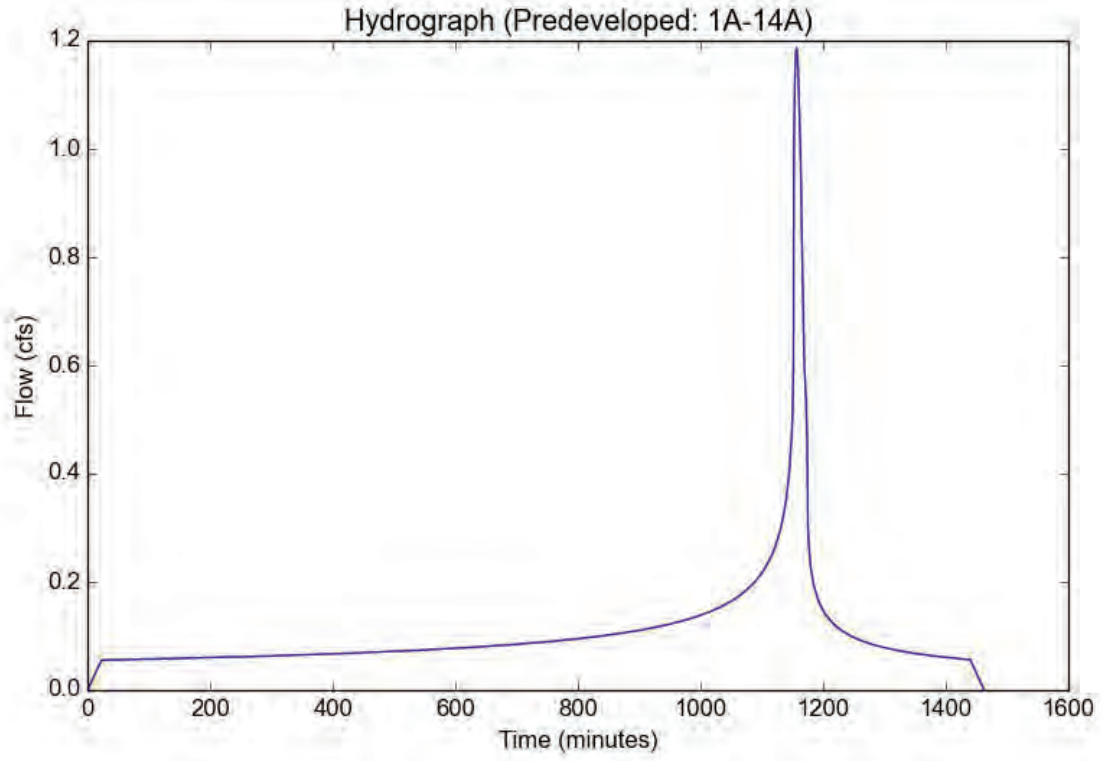
File location: C:/Users/Zac/DukeEng Dropbox/Job Files/23136 AVLC West/3 - Civil/9 - Studies/1 - Hydrology Study/figures/12242023/On-Site/Predevelop
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Predeveloped
Subarea ID	1A-14A
Area (ac)	8.9
Flow Path Length (ft)	150.0
Flow Path Slope (vft/hft)	0.002
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.7571
Undeveloped Runoff Coefficient (Cu)	0.1687
Developed Runoff Coefficient (Cd)	0.176
Time of Concentration (min)	23.0
Clear Peak Flow Rate (cfs)	1.1859
Burned Peak Flow Rate (cfs)	1.1859
24-Hr Clear Runoff Volume (ac-ft)	0.2138
24-Hr Clear Runoff Volume (cu-ft)	9311.463



Appendix III: Predeveloped LAR04

ESTU2023000671
RPPL2022013992

Program Package Serial Number: 2240

02/22/24 FILE: 23136 INPUT DATA: English Units RAINFALL SOIL FILE: English (In) OUTPUT DATA: English Units PAGE 1

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601M

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 2 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
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3136	4A	8.9	.28	35.6	.98	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	5A	8.9	.28	44.5	1.17	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	6A	8.9	.28	53.4	1.33	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	7A	8.9	.28	62.3	1.46	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	8A	8.9	.28	71.2	1.58	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	9A	8.9	.28	80.1	1.68	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	10A	8.9	.28	89.0	1.76	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	11A	8.9	.28	97.9	1.83	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	12A	8.9	.28	106.8	1.90	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	13A	8.9	.28	115.7	1.97	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
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Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 5 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

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Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 10 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
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3136	4A	8.9	.52	35.6	1.85	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	5A	8.9	.52	44.5	2.22	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	6A	8.9	.52	53.4	2.56	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	7A	8.9	.52	62.3	2.85	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
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3136	11A	8.9	.52	97.9	3.83	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
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Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 25 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
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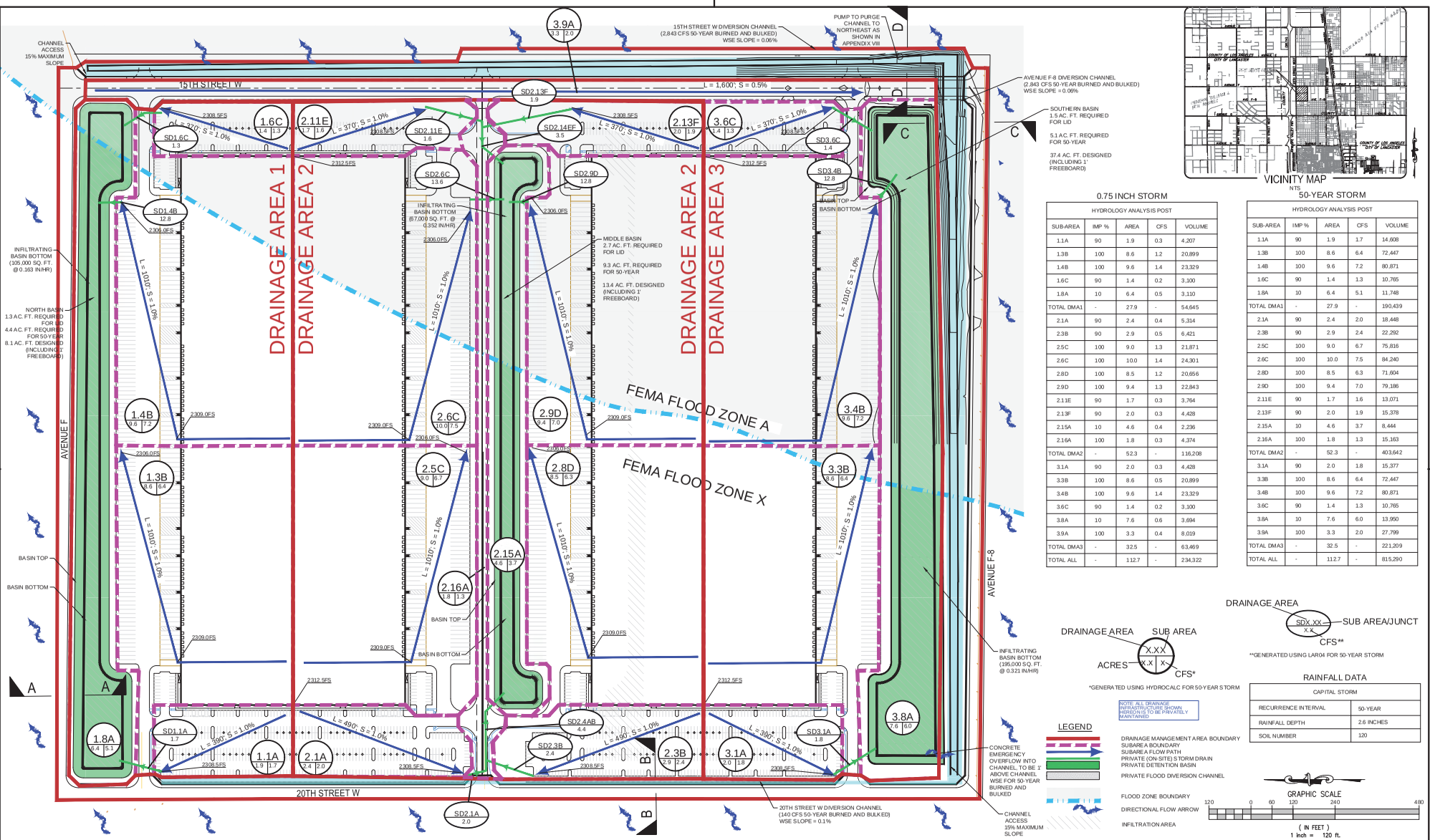
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Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 50 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
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3136	4A	8.9	1.33	35.6	4.09	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	5A	8.9	1.33	44.5	4.71	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	6A	8.9	1.33	53.4	5.24	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	7A	8.9	1.33	62.3	5.74	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	8A	8.9	1.33	71.2	6.21	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
3136	9A	8.9	1.33	80.1	6.63	2	150.	.00200	500.00	5.00	0.	120	23	A13	.01
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3136	14A	8.9	1.33	124.6	8.39	0	0.	.00000	.00	.00	0.	120	23	A13	.01

Appendix V: Postdeveloped Conditions Map



0.75 INCH STORM

HYDROLOGY ANALYSIS POST

SUB-AREA	IMP %	AREA	CFS	VOLUME
1.1A	90	1.9	0.3	4,207
1.3B	100	8.6	1.2	20,899
1.4B	100	9.6	1.4	23,329
1.6C	90	1.4	0.2	3,100
1.8A	10	6.4	0.5	3,110
TOTAL DMA1	-	27.9	-	54,645
2.1A	90	2.4	0.4	5,314
2.3B	90	2.9	0.5	6,421
2.5C	100	9.0	1.3	21,871
2.6C	100	10.0	1.4	24,301
2.8D	100	8.5	1.2	20,656
2.9D	100	9.4	1.3	22,843
2.11E	90	1.7	0.3	3,764
2.13F	90	2.0	0.3	4,428
2.15A	10	4.6	0.4	2,236
2.16A	100	1.8	0.3	4,374
TOTAL DMA2	-	52.3	-	116,208
3.1A	90	2.0	0.3	4,428
3.3B	100	8.6	0.5	20,899
3.4B	100	9.6	1.4	23,329
3.6C	90	1.4	0.2	3,100
3.8A	10	7.6	0.6	3,694
3.9A	100	3.3	0.4	8,019
TOTAL DMA3	-	32.5	-	63,469
TOTAL ALL	-	112.7	-	234,322

50-YEAR STORM

HYDROLOGY ANALYSIS POST

SUB-AREA	IMP %	AREA	CFS	VOLUME
1.1A	90	1.9	1.7	14,608
1.3B	100	8.6	6.4	72,447
1.4B	100	9.6	7.2	80,871
1.6C	90	1.4	1.3	10,765
1.8A	10	6.4	5.1	11,748
TOTAL DMA1	-	27.9	-	190,439
2.1A	90	2.4	2.0	18,448
2.3B	90	2.9	2.4	22,292
2.5C	100	9.0	6.7	75,816
2.6C	100	10.0	7.5	84,240
2.8D	100	8.5	6.3	71,604
2.9D	100	9.4	7.0	79,186
2.11E	90	1.7	1.6	13,071
2.13F	90	2.0	1.9	15,378
2.15A	10	4.6	3.7	8,444
2.16A	100	1.8	1.3	15,163
TOTAL DMA2	-	52.3	-	403,642
3.1A	90	2.0	1.8	15,377
3.3B	100	8.6	6.4	72,447
3.4B	100	9.6	7.2	80,871
3.6C	90	1.4	1.3	10,765
3.8A	10	7.6	6.0	13,950
3.9A	100	3.3	2.0	27,799
TOTAL DMA3	-	32.5	-	221,209
TOTAL ALL	-	112.7	-	815,290

DRAINAGE AREA

SDX.XX — SUB AREA/JUNCT

X.X — CFS**

**GENERATED USING LAR04 FOR 50-YEAR STORM

DRAINAGE AREA — SUB AREA

ACRES — X.XX — X.X — CFS*

*GENERATED USING HYDROCALC FOR 50-YEAR STORM

NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

RAINFALL DATA

CAPITAL STORM	
RECURRENCE INTERVAL	50-YEAR
RAINFALL DEPTH	2.6 INCHES
SOIL NUMBER	120

LEGEND

- DRAINAGE MANAGEMENT AREA BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOW PATH
- PRIVATE (ON-SITE) STORM DRAIN
- PRIVATE DETENTION BASIN
- PRIVATE FLOOD DIVERSION CHANNEL
- FLOOD ZONE BOUNDARY
- DIRECTIONAL FLOW ARROW
- INFILTRATION AREA

GRAPHIC SCALE

120 0 60 120 240 480

(IN FEET)

1 inch = 120 ft.

UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG

Call: TOLL FREE 811

TWO WORKING DAYS BEFORE YOU DIG

PREPARED FOR:

NORTHPOINT DEVELOPMENT, LLC

ENGINEER OF RECORD

44732 YUCCA AVENUE
LANCASTER, CA 93534
(661) 952-7918

DUKE ENGINEERING

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REV#	RECORD RCE APPR.	DATE	REVISION BLOCK REVISION DESCRIPTION	CITY APPR.	DATE
△					
△					
△					
△					
△					

COUNTY OF LOS ANGELES

POSTDEVELOPED HYDROLOGY

NORTHPOINT AVLC WEST

AVENUE F & 20TH STREET WEST
LANCASTER, CA

ESTU2023000671 - RPPL2022013992

SCALE: PER PLAN
DESIGNED: ZP
DRAWN: ZP
CHECKED: RD
SHEET:
PROJECT NO.: 23136
SHEET NO.

Appendix VI: Postdeveloped Hydrocalc

ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

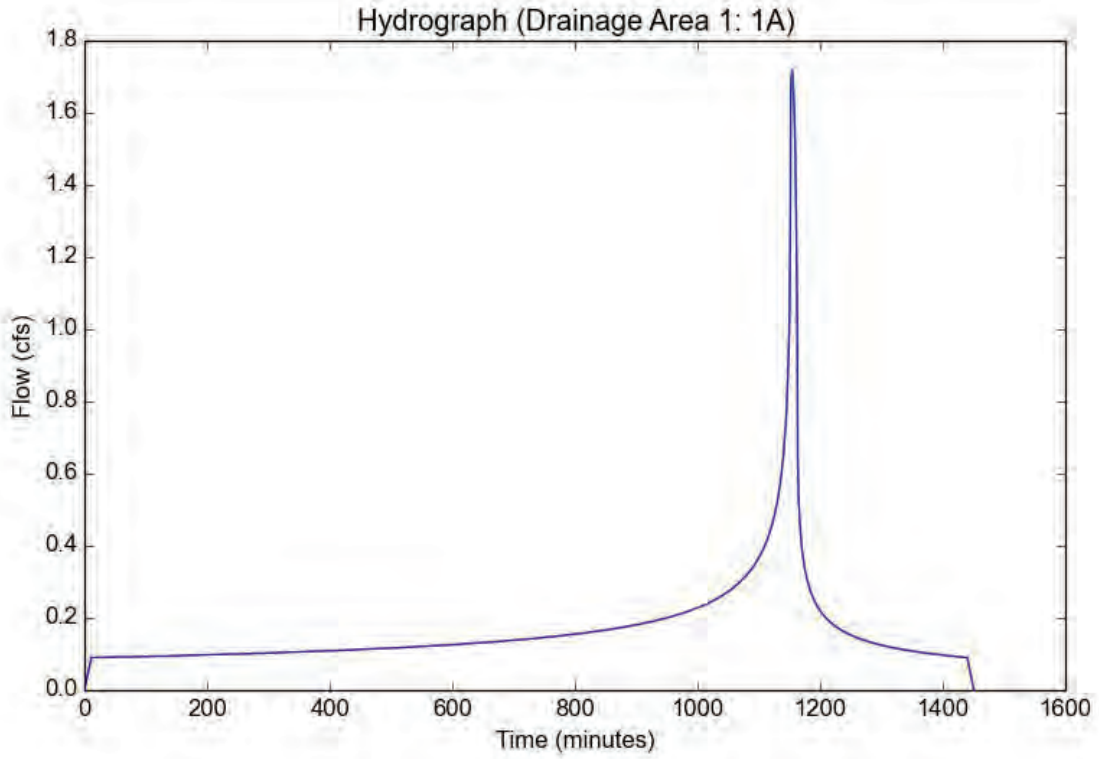
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	1A
Area (ac)	1.9
Flow Path Length (ft)	390.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.0709
Undeveloped Runoff Coefficient (Cu)	0.3437
Developed Runoff Coefficient (Cd)	0.8444
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	1.718
Burned Peak Flow Rate (cfs)	1.718
24-Hr Clear Runoff Volume (ac-ft)	0.3354
24-Hr Clear Runoff Volume (cu-ft)	14608.0005



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RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

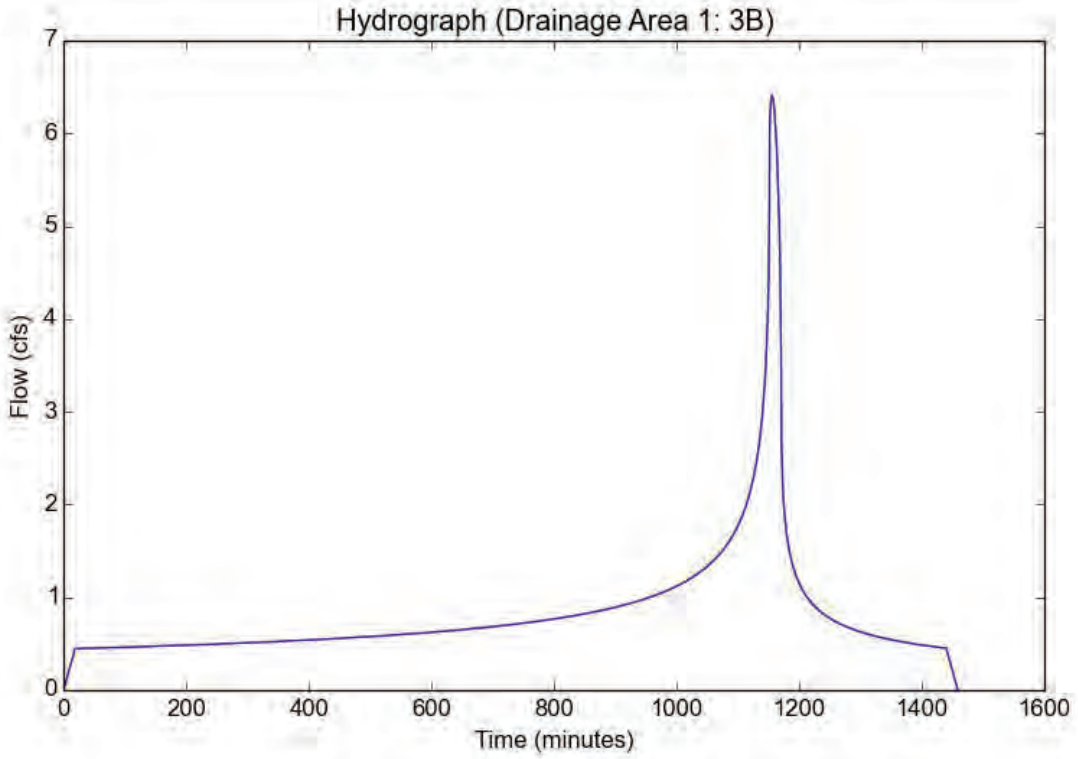
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	3B
Area (ac)	8.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	6.4109
Burned Peak Flow Rate (cfs)	6.4109
24-Hr Clear Runoff Volume (ac-ft)	1.6631
24-Hr Clear Runoff Volume (cu-ft)	72446.7312



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

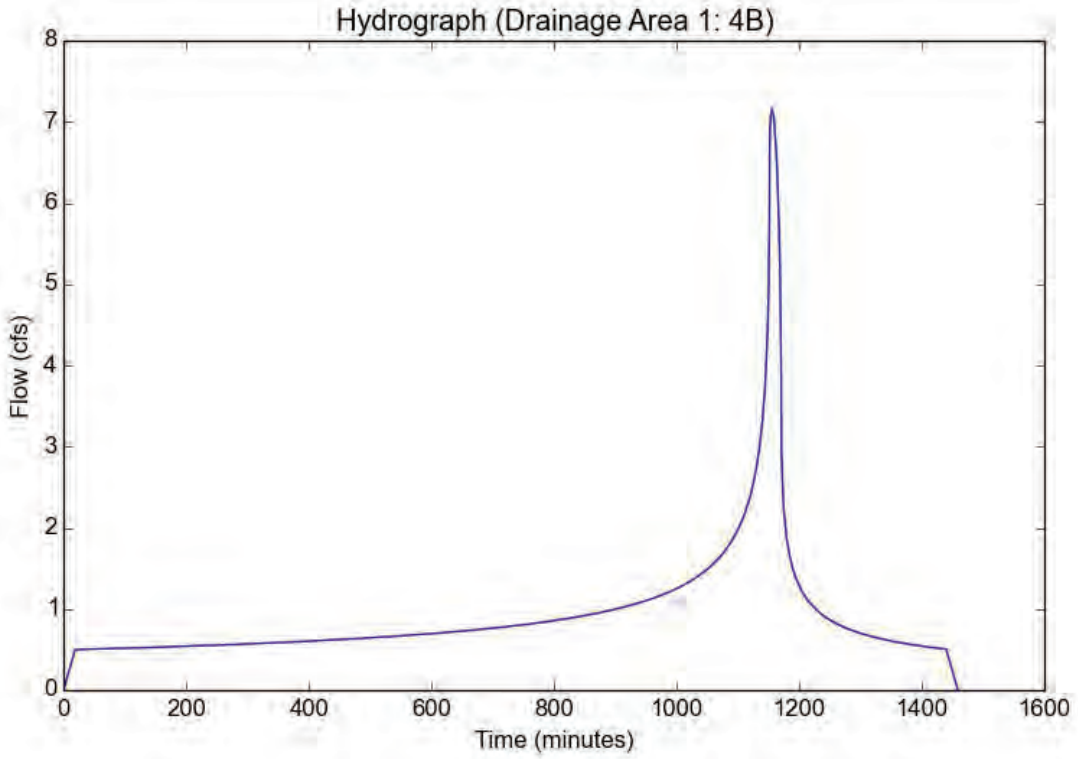
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	4B
Area (ac)	9.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	7.1564
Burned Peak Flow Rate (cfs)	7.1564
24-Hr Clear Runoff Volume (ac-ft)	1.8565
24-Hr Clear Runoff Volume (cu-ft)	80870.7698



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50-YEAR

Peak Flow Hydrologic Analysis

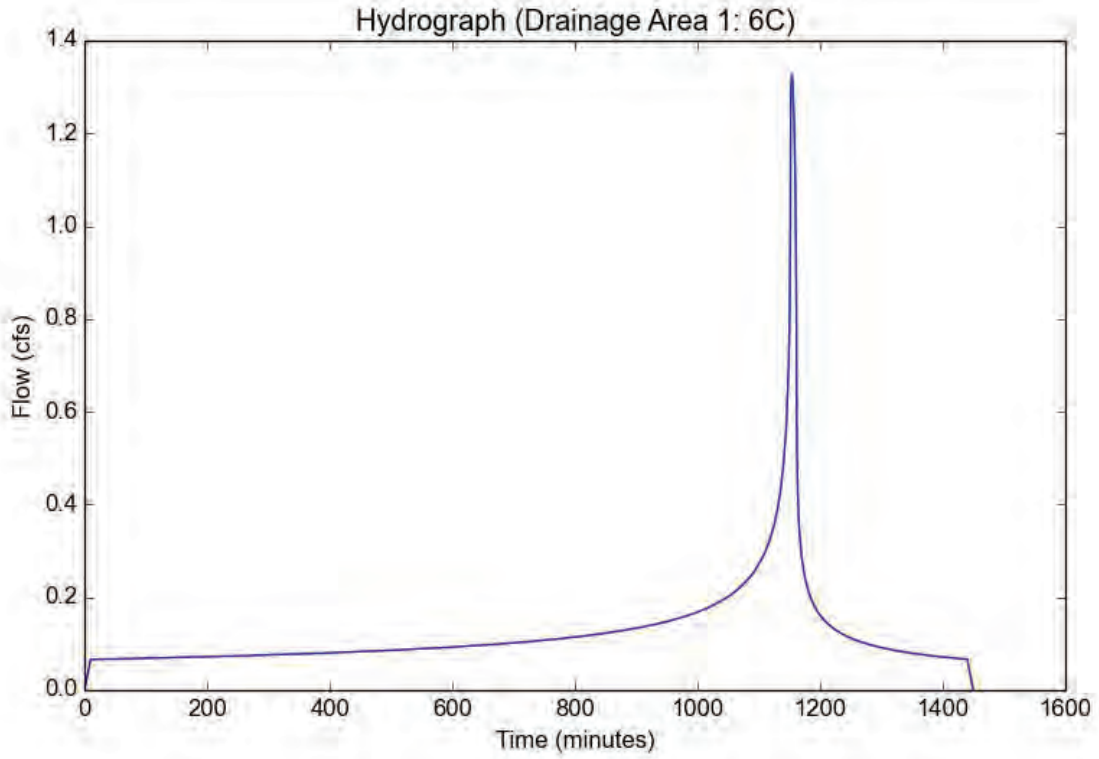
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	6C
Area (ac)	1.4
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.1199
Undeveloped Runoff Coefficient (Cu)	0.3572
Developed Runoff Coefficient (Cd)	0.8457
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	1.326
Burned Peak Flow Rate (cfs)	1.326
24-Hr Clear Runoff Volume (ac-ft)	0.2471
24-Hr Clear Runoff Volume (cu-ft)	10764.6333



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RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

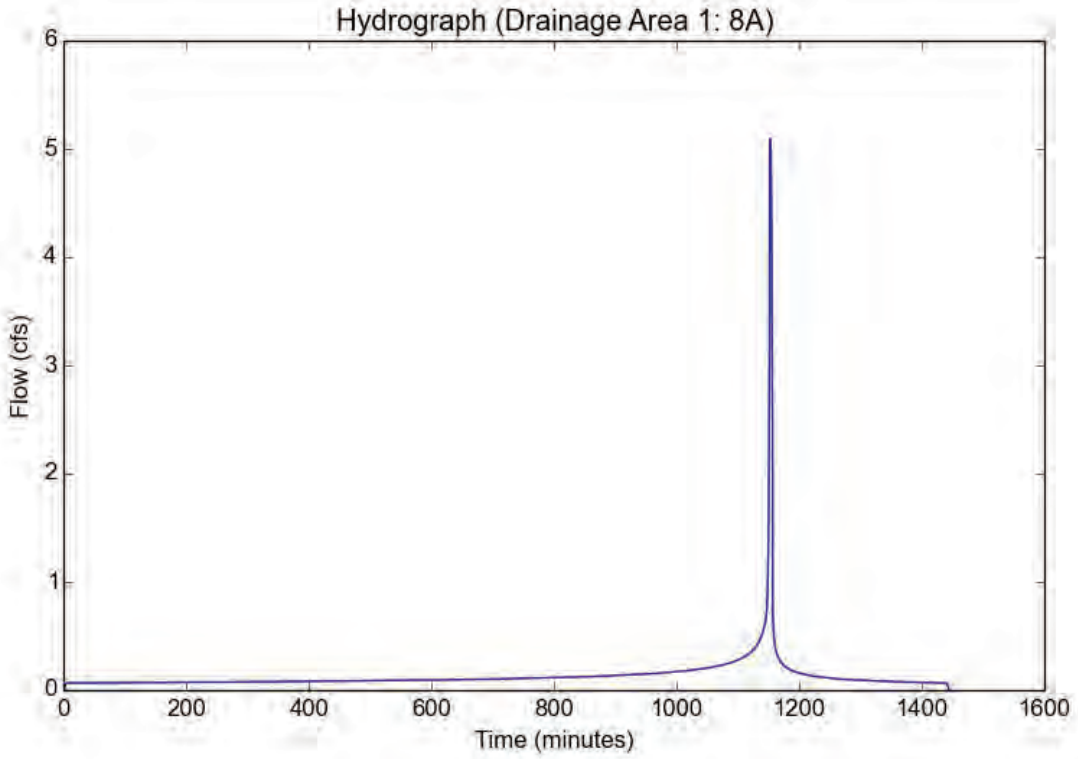
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	8A
Area (ac)	6.4
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.5512
Undeveloped Runoff Coefficient (Cu)	0.4699
Developed Runoff Coefficient (Cd)	0.5129
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	5.092
Burned Peak Flow Rate (cfs)	5.092
24-Hr Clear Runoff Volume (ac-ft)	0.2697
24-Hr Clear Runoff Volume (cu-ft)	11747.9288



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50-YEAR

Peak Flow Hydrologic Analysis

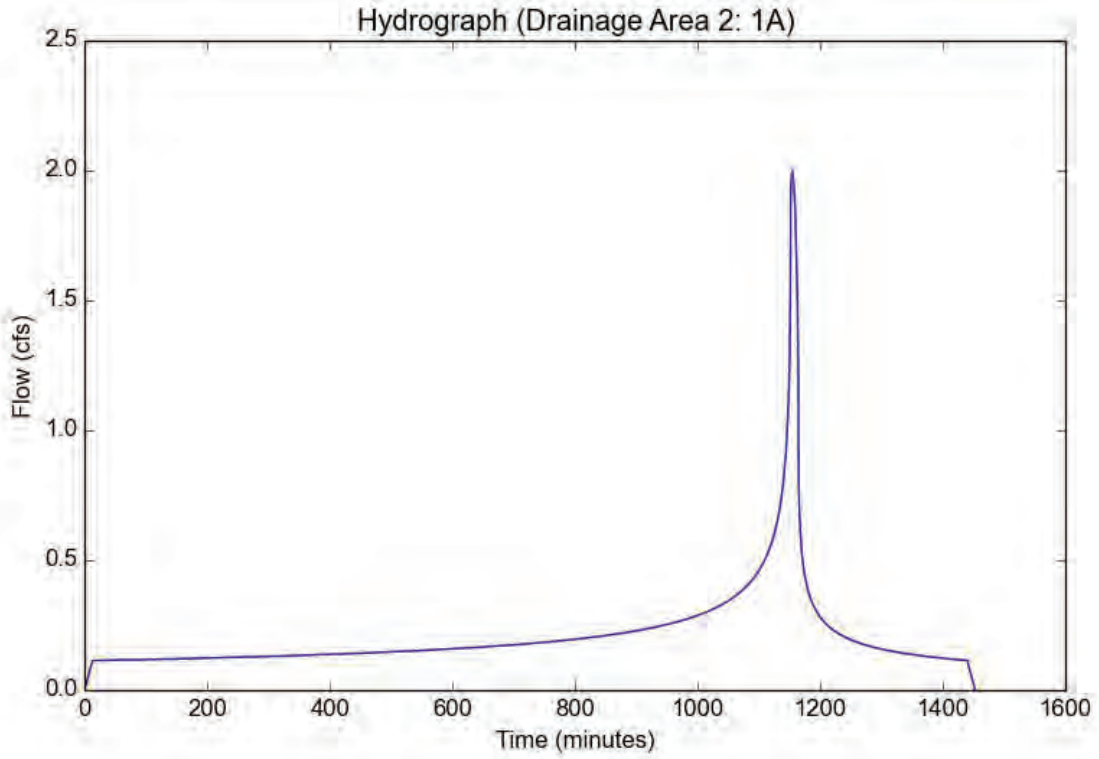
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	1A
Area (ac)	2.4
Flow Path Length (ft)	490.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.99
Undeveloped Runoff Coefficient (Cu)	0.3179
Developed Runoff Coefficient (Cd)	0.8418
Time of Concentration (min)	13.0
Clear Peak Flow Rate (cfs)	2.0001
Burned Peak Flow Rate (cfs)	2.0001
24-Hr Clear Runoff Volume (ac-ft)	0.4235
24-Hr Clear Runoff Volume (cu-ft)	18448.4188



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50-YEAR

Peak Flow Hydrologic Analysis

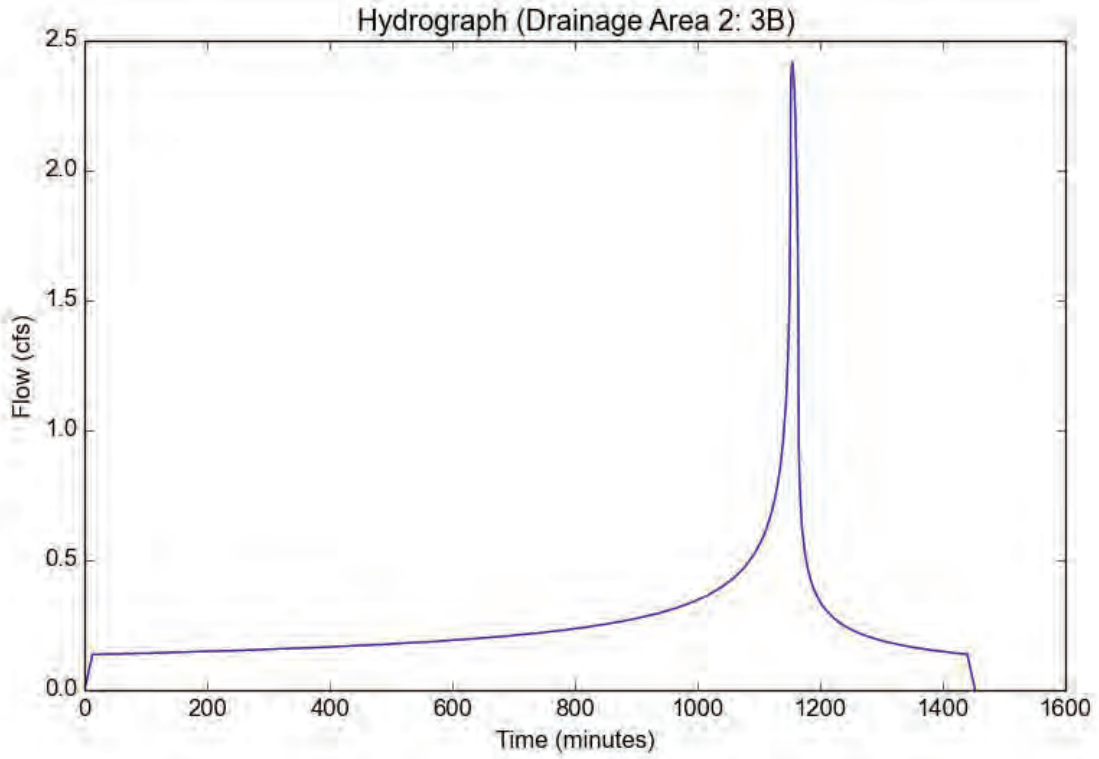
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	3B
Area (ac)	2.9
Flow Path Length (ft)	490.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.99
Undeveloped Runoff Coefficient (Cu)	0.3179
Developed Runoff Coefficient (Cd)	0.8418
Time of Concentration (min)	13.0
Clear Peak Flow Rate (cfs)	2.4168
Burned Peak Flow Rate (cfs)	2.4168
24-Hr Clear Runoff Volume (ac-ft)	0.5118
24-Hr Clear Runoff Volume (cu-ft)	22291.8394



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50-YEAR

Peak Flow Hydrologic Analysis

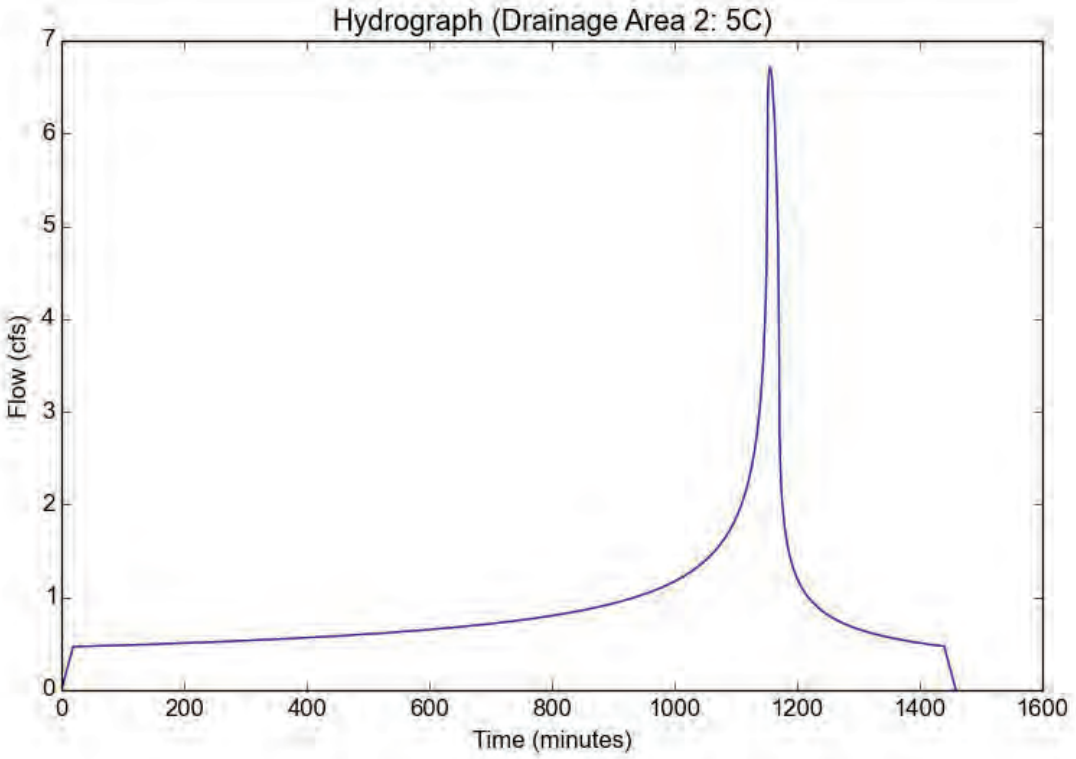
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	5C
Area (ac)	9.0
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	6.7091
Burned Peak Flow Rate (cfs)	6.7091
24-Hr Clear Runoff Volume (ac-ft)	1.7405
24-Hr Clear Runoff Volume (cu-ft)	75816.3467



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50-YEAR

Peak Flow Hydrologic Analysis

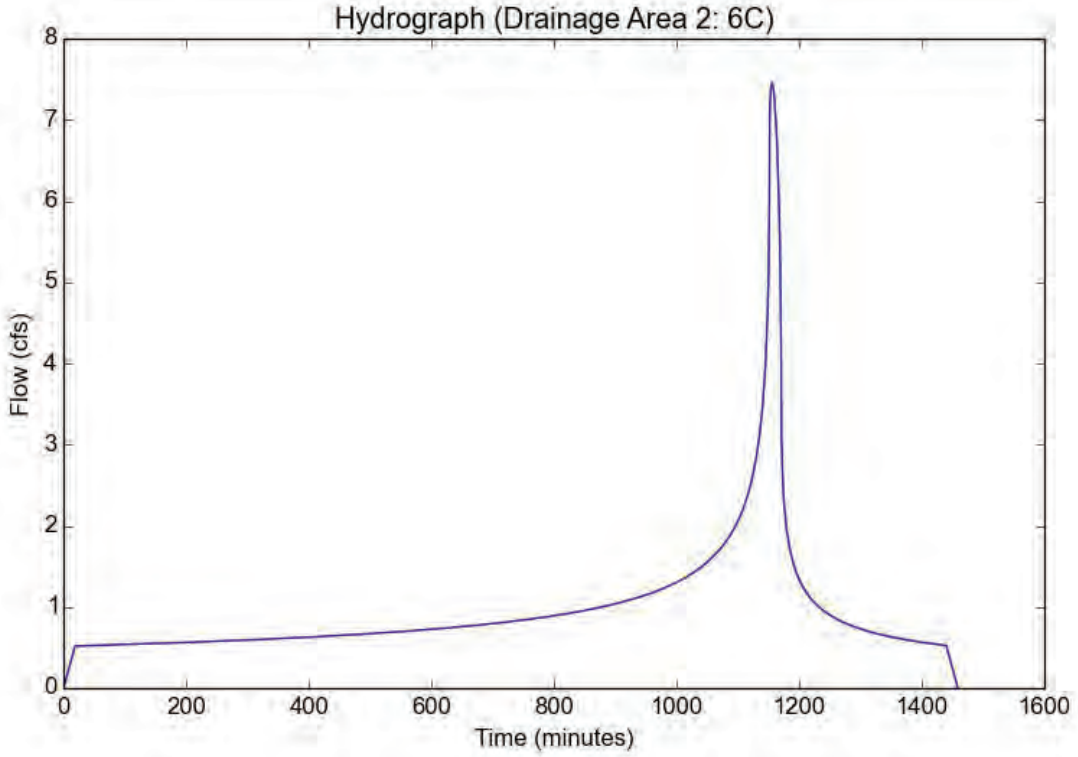
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	6C
Area (ac)	10.0
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	7.4545
Burned Peak Flow Rate (cfs)	7.4545
24-Hr Clear Runoff Volume (ac-ft)	1.9339
24-Hr Clear Runoff Volume (cu-ft)	84240.3852



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50-YEAR

Peak Flow Hydrologic Analysis

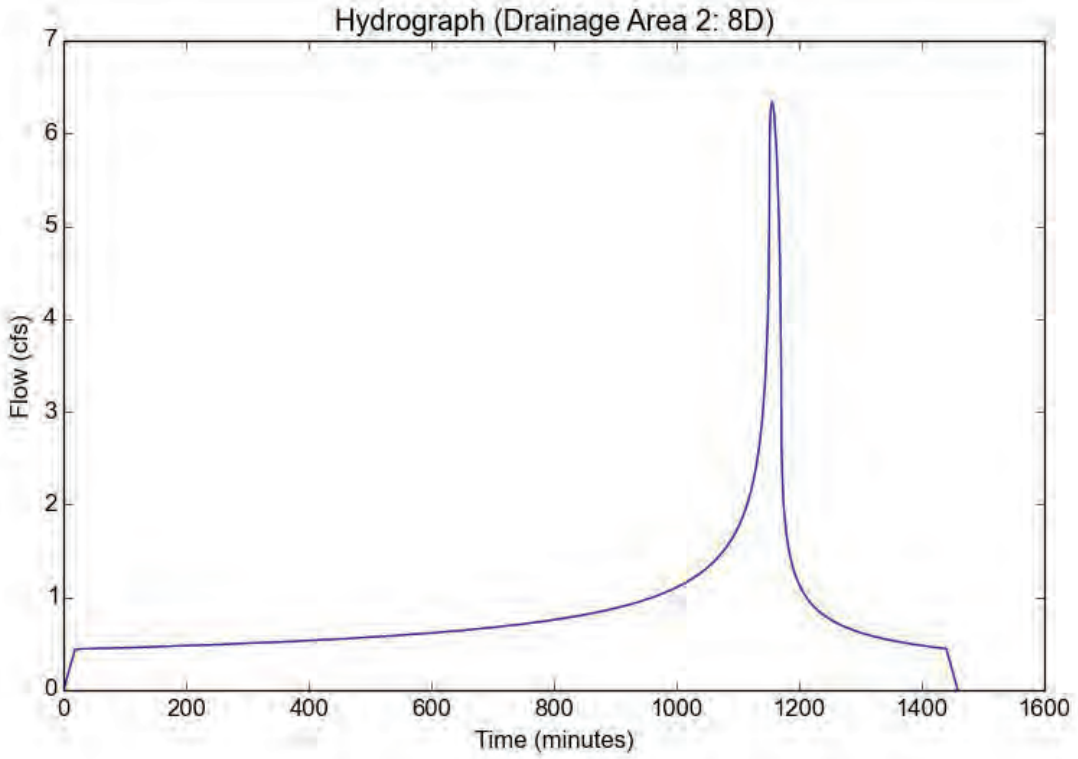
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	8D
Area (ac)	8.5
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	6.3364
Burned Peak Flow Rate (cfs)	6.3364
24-Hr Clear Runoff Volume (ac-ft)	1.6438
24-Hr Clear Runoff Volume (cu-ft)	71604.3274



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50-YEAR

Peak Flow Hydrologic Analysis

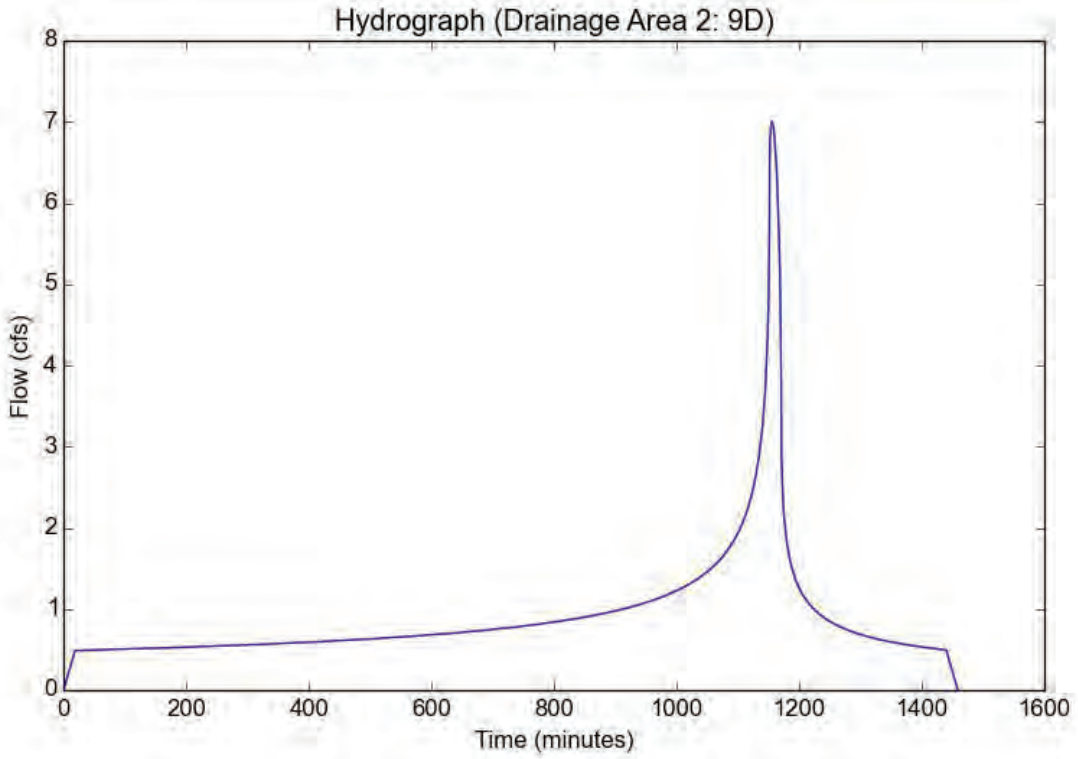
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	9D
Area (ac)	9.4
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	7.0073
Burned Peak Flow Rate (cfs)	7.0073
24-Hr Clear Runoff Volume (ac-ft)	1.8179
24-Hr Clear Runoff Volume (cu-ft)	79185.9621



ESTU2023000671
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50-YEAR

Peak Flow Hydrologic Analysis

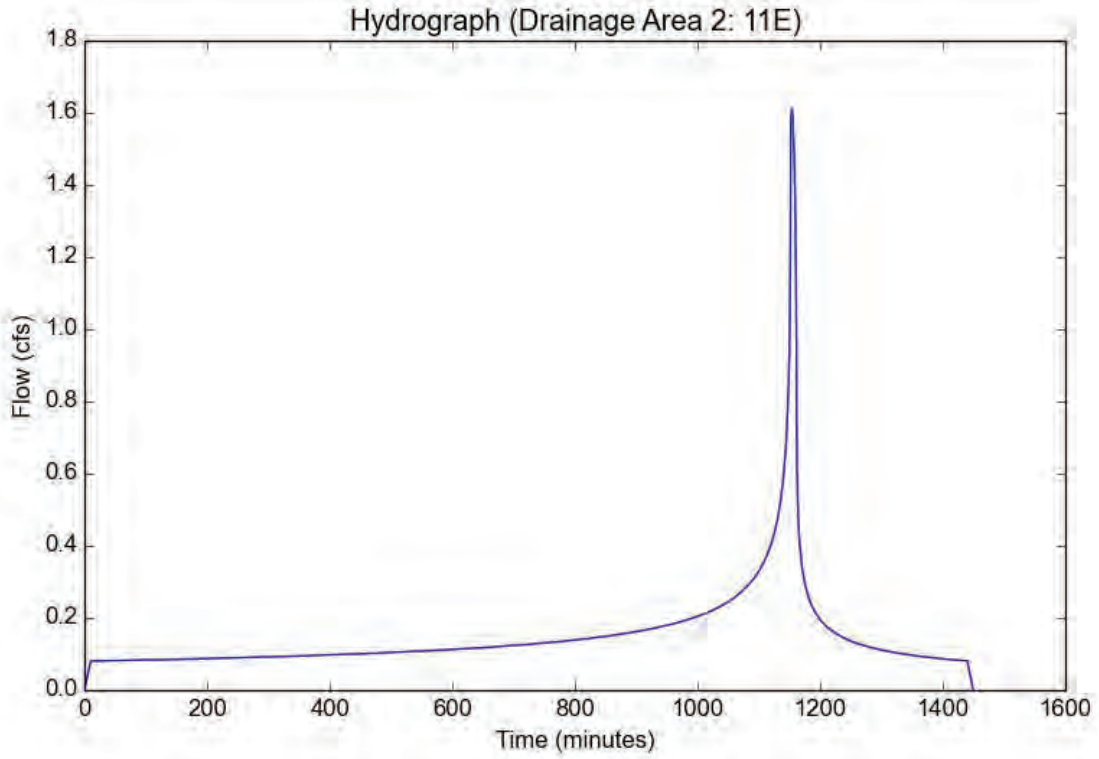
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	11E
Area (ac)	1.7
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.1199
Undeveloped Runoff Coefficient (Cu)	0.3572
Developed Runoff Coefficient (Cd)	0.8457
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	1.6102
Burned Peak Flow Rate (cfs)	1.6102
24-Hr Clear Runoff Volume (ac-ft)	0.3001
24-Hr Clear Runoff Volume (cu-ft)	13071.3404



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

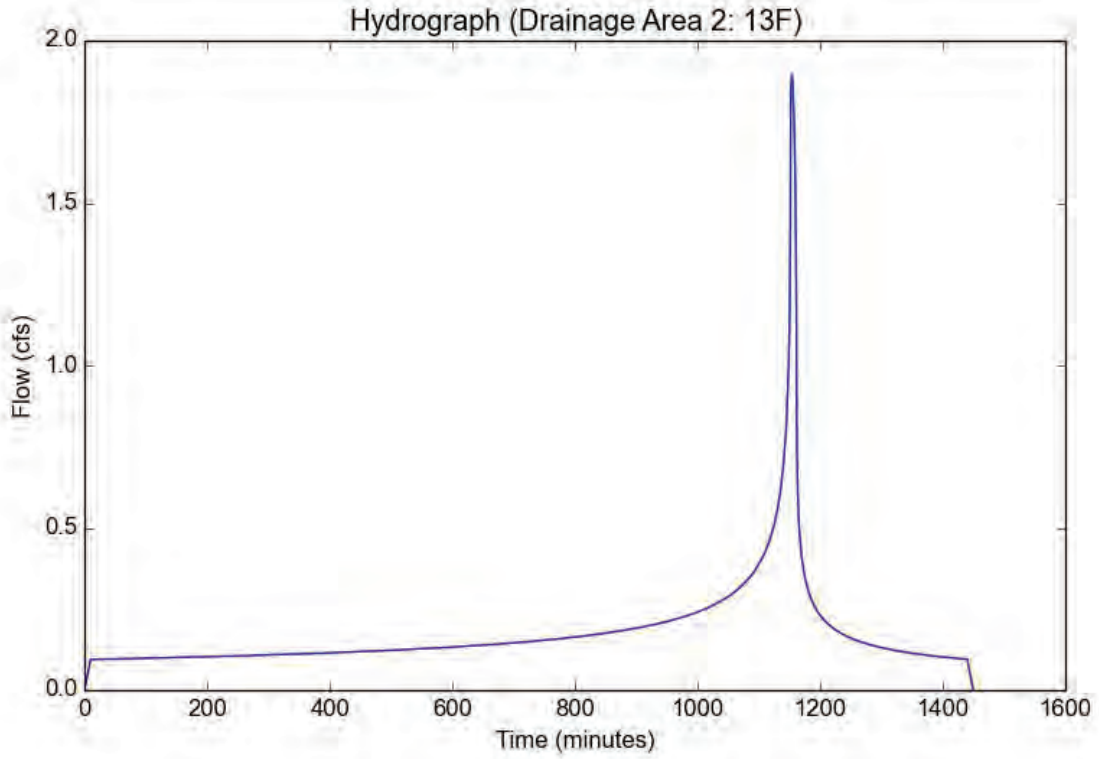
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	13F
Area (ac)	2.0
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.1199
Undeveloped Runoff Coefficient (Cu)	0.3572
Developed Runoff Coefficient (Cd)	0.8457
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	1.8943
Burned Peak Flow Rate (cfs)	1.8943
24-Hr Clear Runoff Volume (ac-ft)	0.353
24-Hr Clear Runoff Volume (cu-ft)	15378.0476



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RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

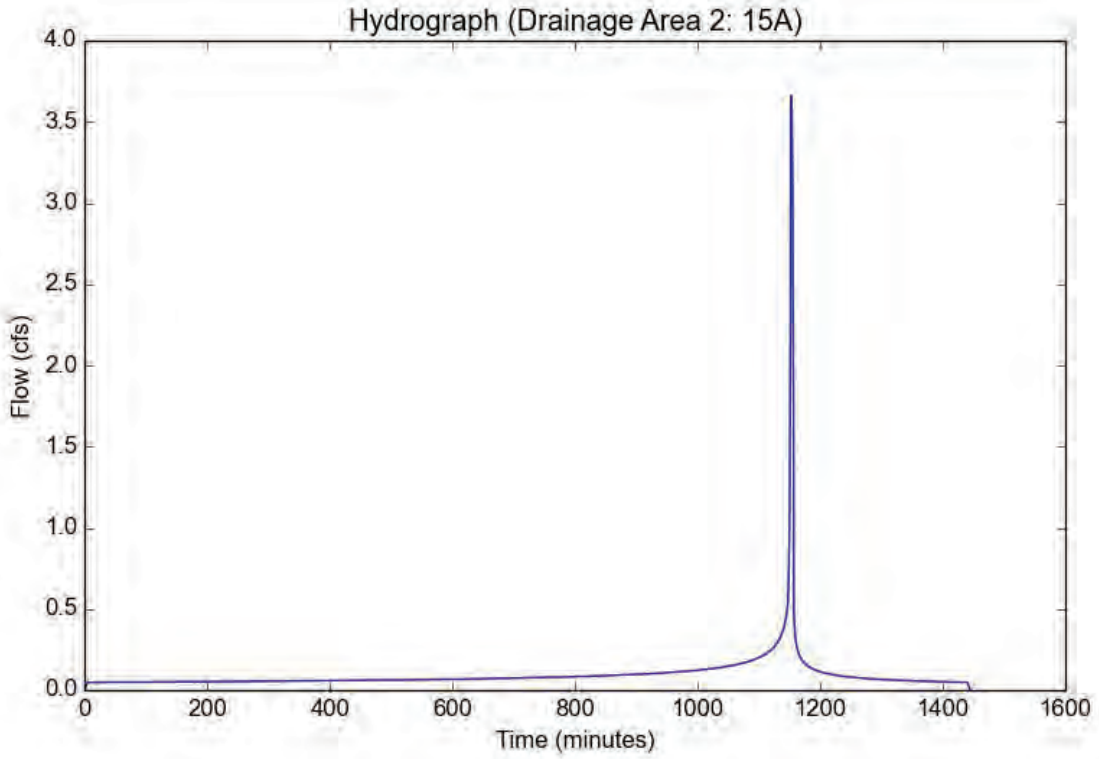
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	15A
Area (ac)	4.6
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.5512
Undeveloped Runoff Coefficient (Cu)	0.4699
Developed Runoff Coefficient (Cd)	0.5129
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	3.6599
Burned Peak Flow Rate (cfs)	3.6599
24-Hr Clear Runoff Volume (ac-ft)	0.1938
24-Hr Clear Runoff Volume (cu-ft)	8443.8238



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

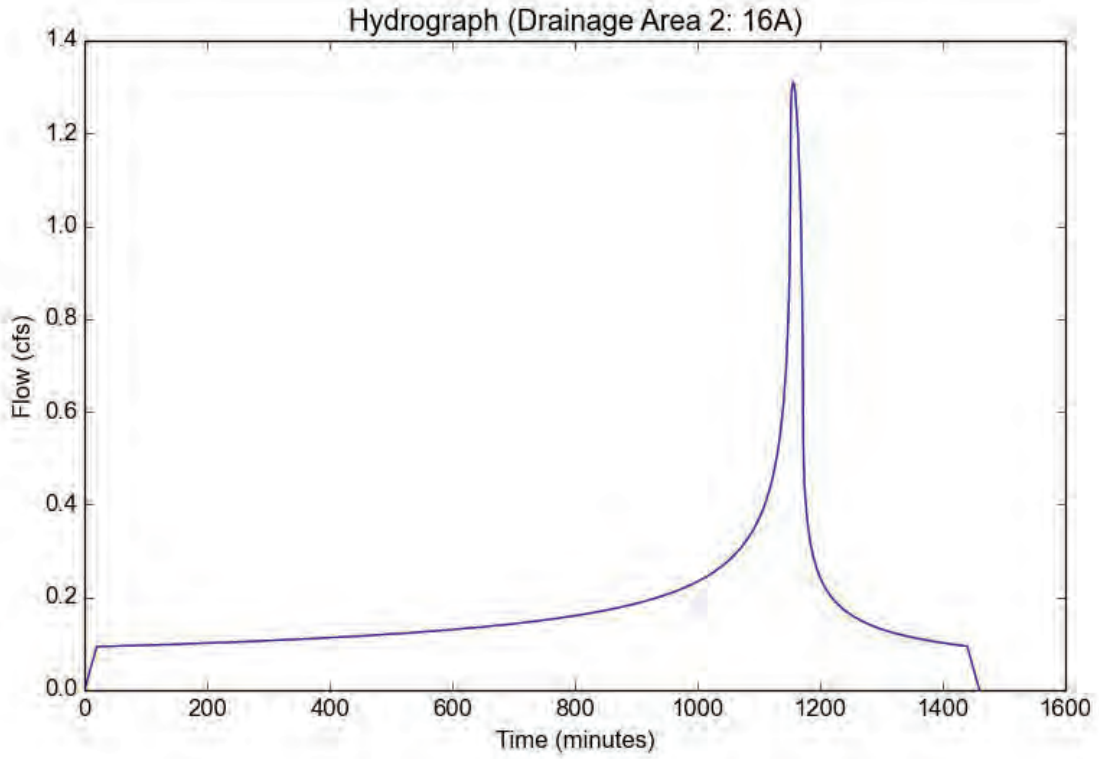
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	16A
Area (ac)	1.8
Flow Path Length (ft)	930.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8086
Undeveloped Runoff Coefficient (Cu)	0.2016
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	20.0
Clear Peak Flow Rate (cfs)	1.3099
Burned Peak Flow Rate (cfs)	1.3099
24-Hr Clear Runoff Volume (ac-ft)	0.3481
24-Hr Clear Runoff Volume (cu-ft)	15163.2769



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

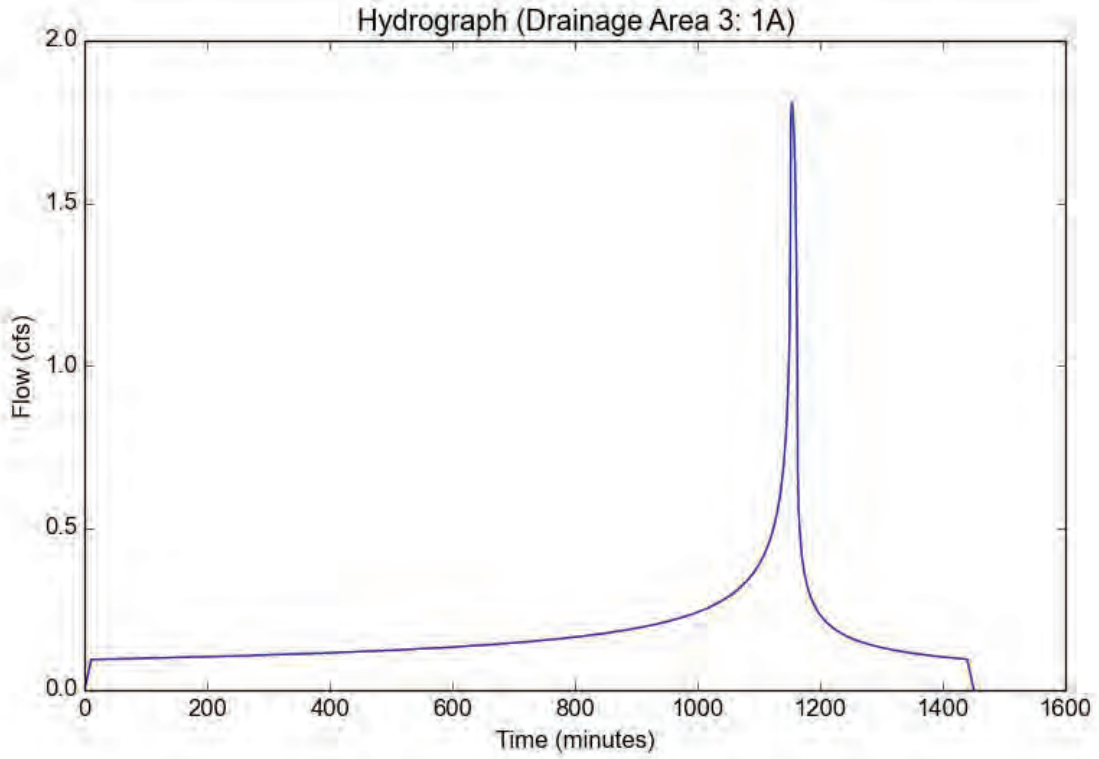
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	1A
Area (ac)	2.0
Flow Path Length (ft)	390.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.0709
Undeveloped Runoff Coefficient (Cu)	0.3437
Developed Runoff Coefficient (Cd)	0.8444
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	1.8084
Burned Peak Flow Rate (cfs)	1.8084
24-Hr Clear Runoff Volume (ac-ft)	0.353
24-Hr Clear Runoff Volume (cu-ft)	15376.8427



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

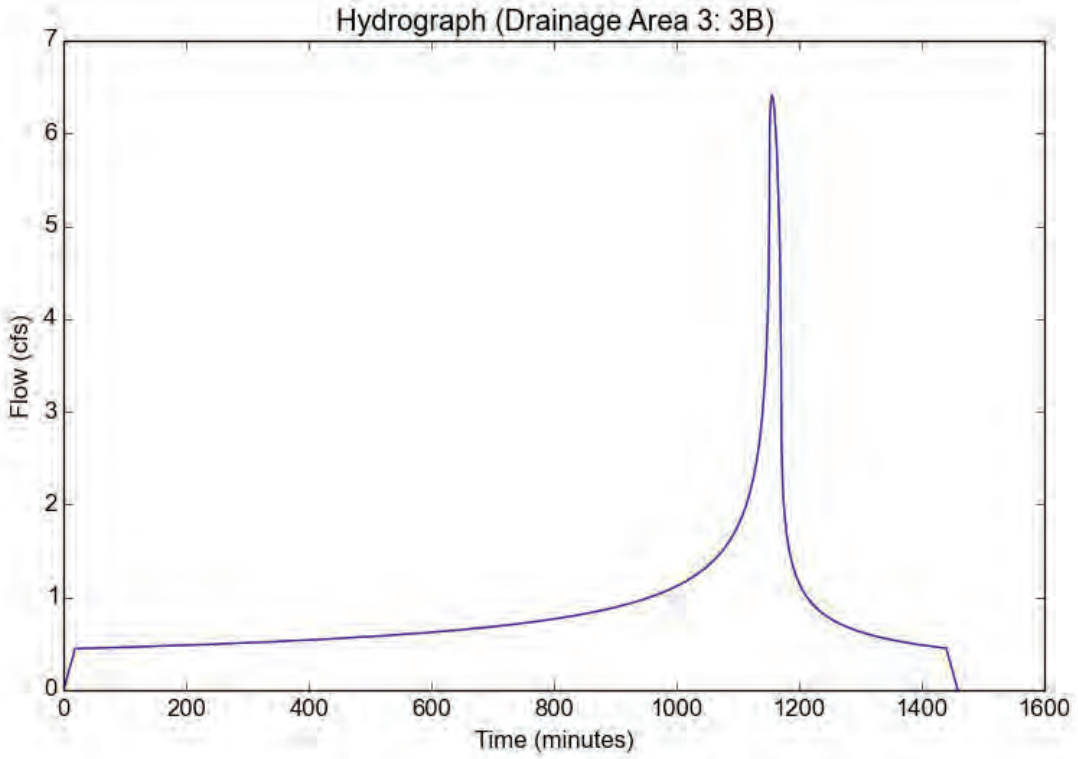
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	3B
Area (ac)	8.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	6.4109
Burned Peak Flow Rate (cfs)	6.4109
24-Hr Clear Runoff Volume (ac-ft)	1.6631
24-Hr Clear Runoff Volume (cu-ft)	72446.7312



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

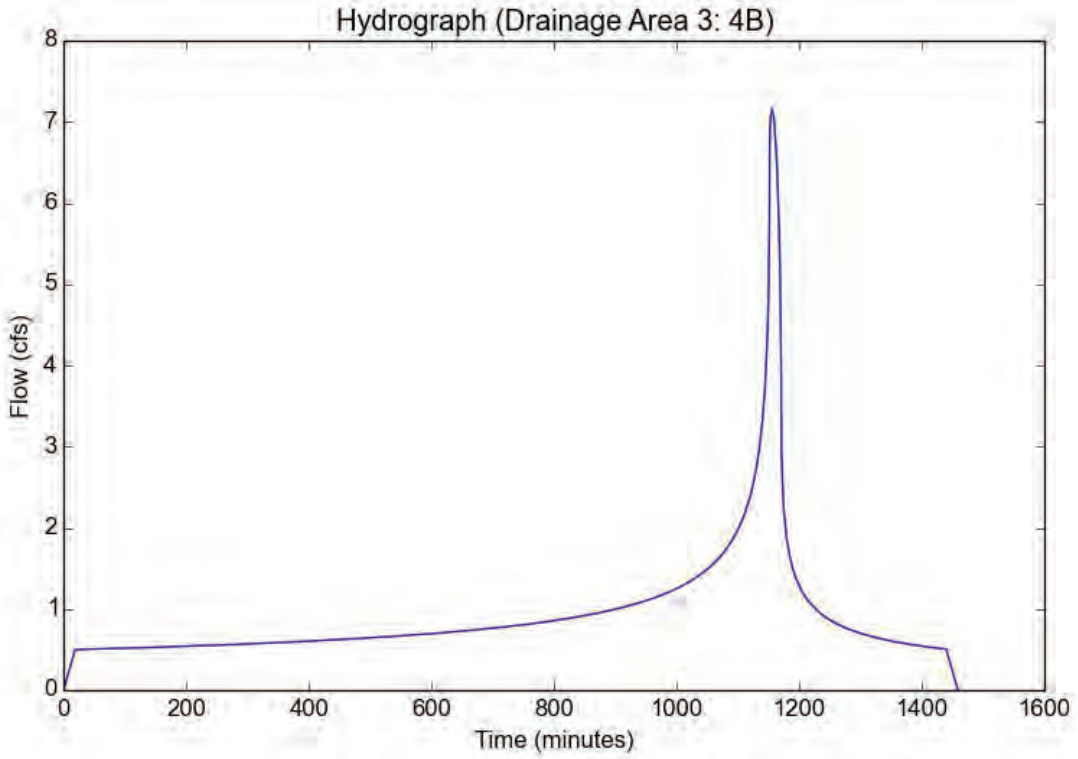
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	4B
Area (ac)	9.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.8283
Undeveloped Runoff Coefficient (Cu)	0.2143
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	19.0
Clear Peak Flow Rate (cfs)	7.1564
Burned Peak Flow Rate (cfs)	7.1564
24-Hr Clear Runoff Volume (ac-ft)	1.8565
24-Hr Clear Runoff Volume (cu-ft)	80870.7698



ESTU2023000671
RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

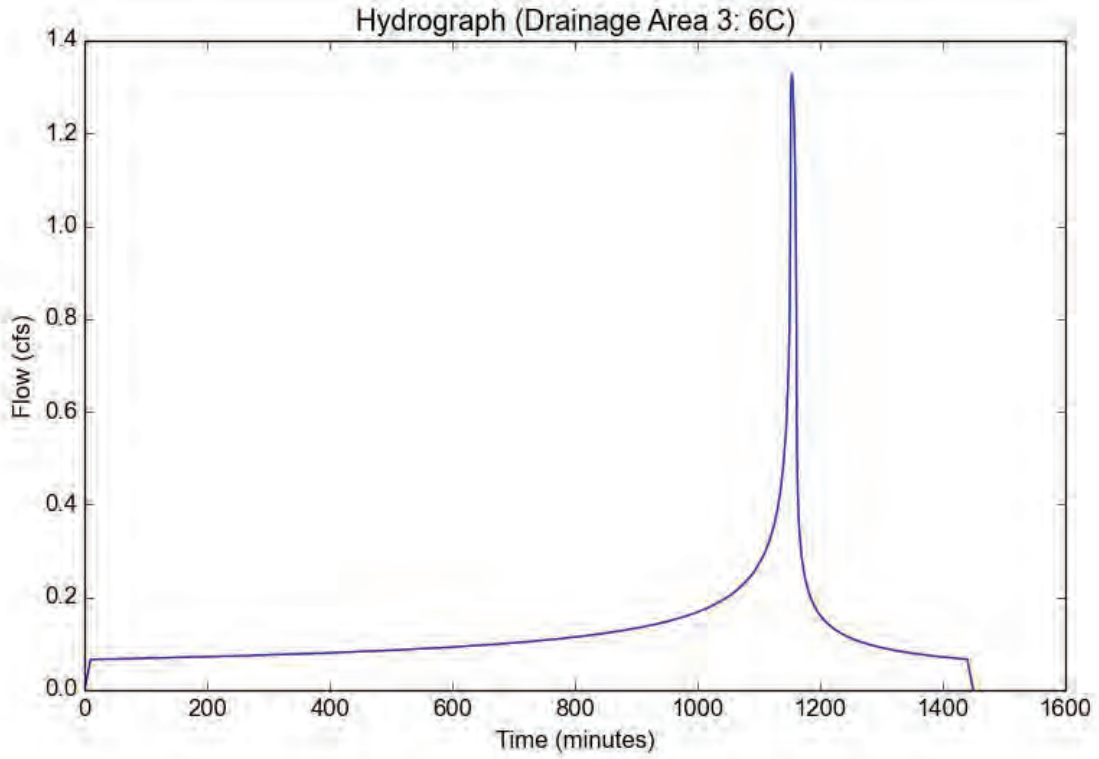
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	6C
Area (ac)	1.4
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.1199
Undeveloped Runoff Coefficient (Cu)	0.3572
Developed Runoff Coefficient (Cd)	0.8457
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	1.326
Burned Peak Flow Rate (cfs)	1.326
24-Hr Clear Runoff Volume (ac-ft)	0.2471
24-Hr Clear Runoff Volume (cu-ft)	10764.6333



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RPPL2022013992

50-YEAR

Peak Flow Hydrologic Analysis

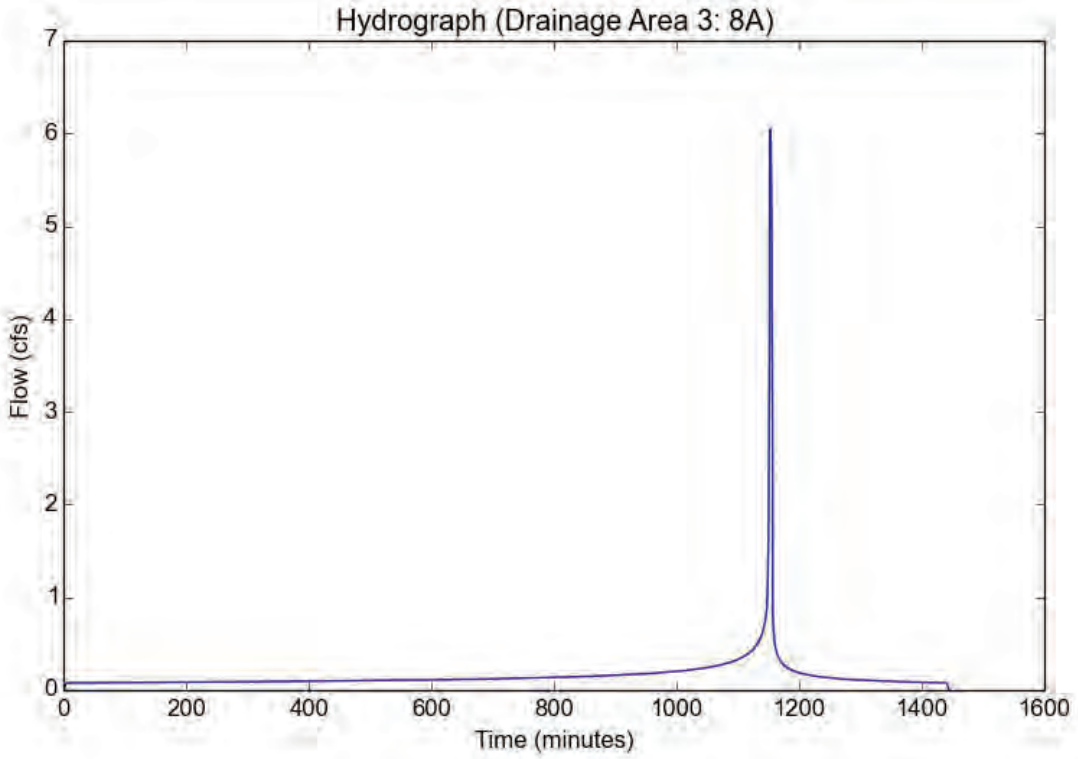
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	8A
Area (ac)	7.6
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.5512
Undeveloped Runoff Coefficient (Cu)	0.4699
Developed Runoff Coefficient (Cd)	0.5129
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	6.0468
Burned Peak Flow Rate (cfs)	6.0468
24-Hr Clear Runoff Volume (ac-ft)	0.3203
24-Hr Clear Runoff Volume (cu-ft)	13950.6655



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50-YEAR

Peak Flow Hydrologic Analysis

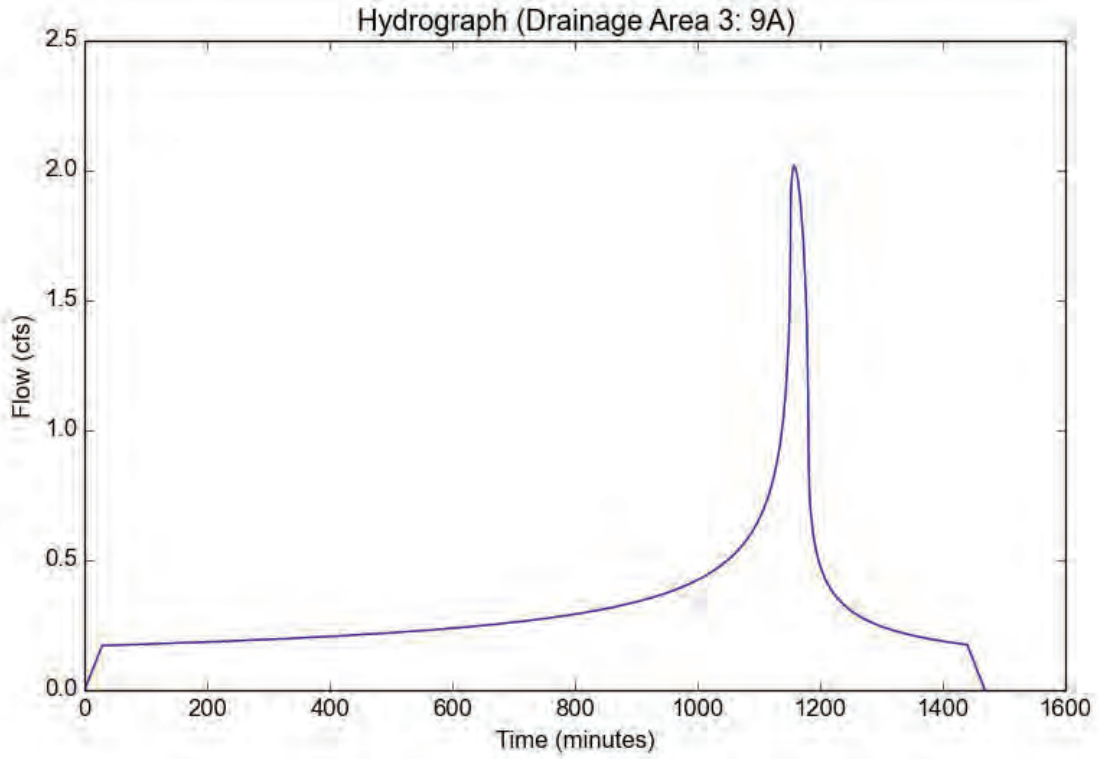
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	9A
Area (ac)	3.3
Flow Path Length (ft)	1600.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.679
Undeveloped Runoff Coefficient (Cu)	0.1186
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	29.0
Clear Peak Flow Rate (cfs)	2.0166
Burned Peak Flow Rate (cfs)	2.0166
24-Hr Clear Runoff Volume (ac-ft)	0.6382
24-Hr Clear Runoff Volume (cu-ft)	27799.4981



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

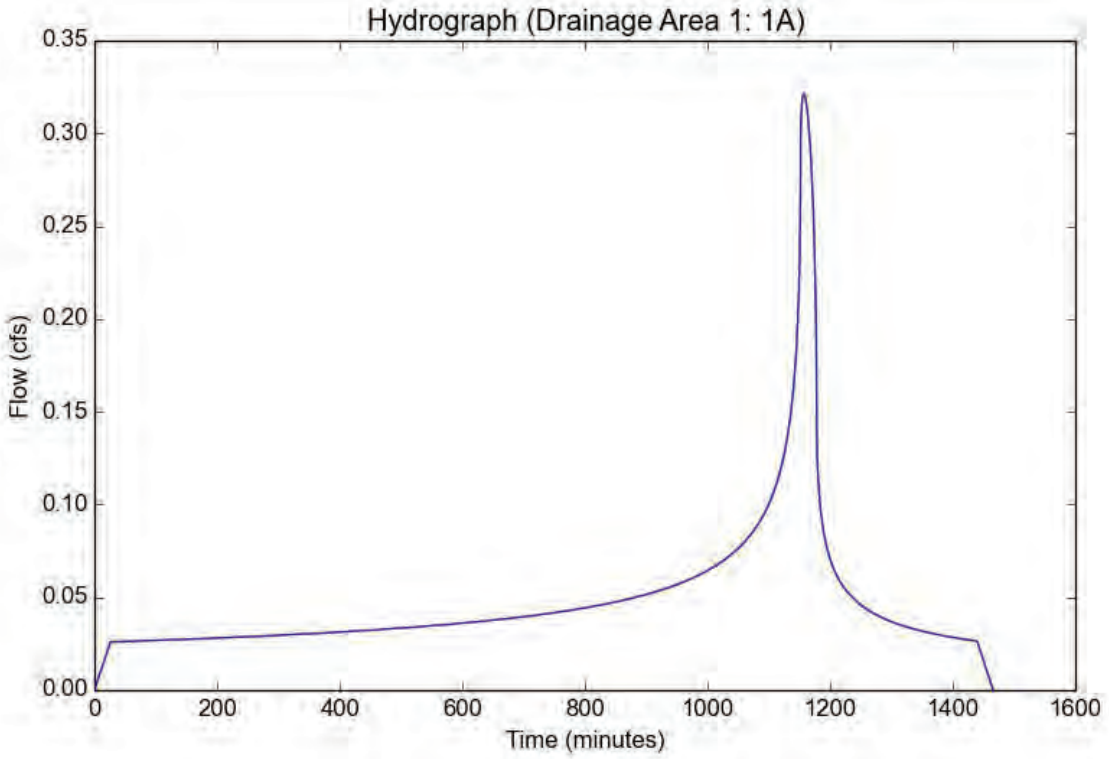
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	1A
Area (ac)	1.9
Flow Path Length (ft)	390.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.2062
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.3212
Burned Peak Flow Rate (cfs)	0.3212
24-Hr Clear Runoff Volume (ac-ft)	0.0966
24-Hr Clear Runoff Volume (cu-ft)	4206.6362



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

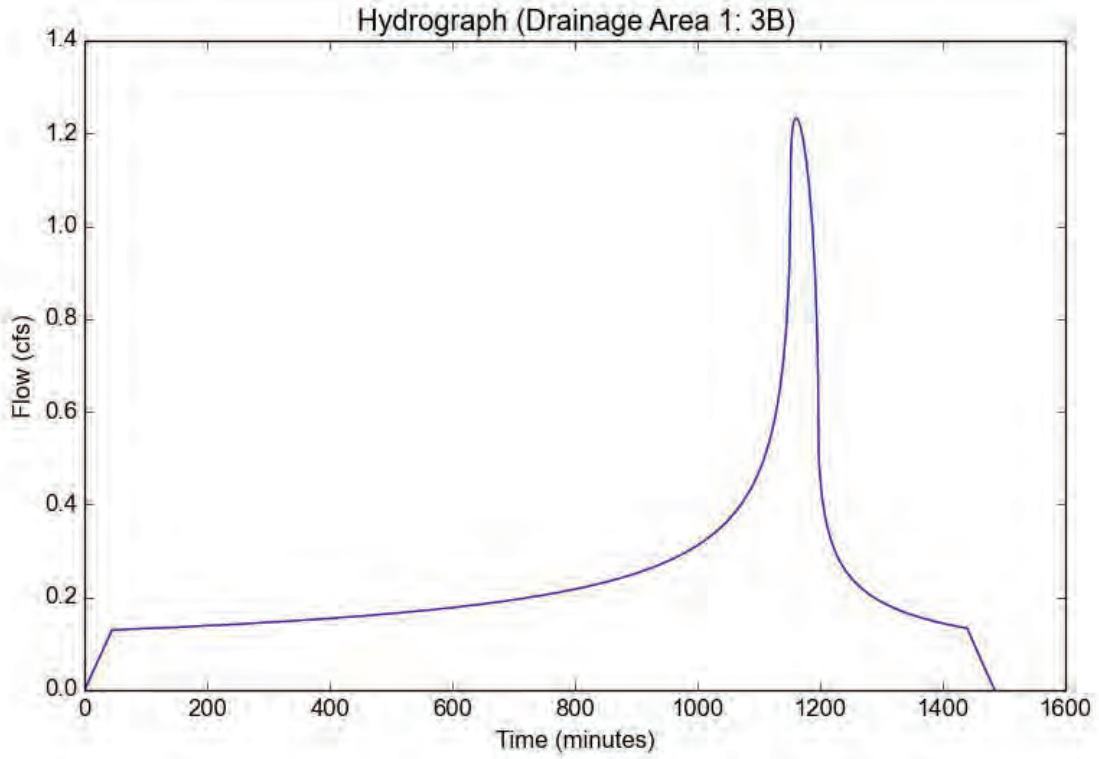
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	3B
Area (ac)	8.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.2331
Burned Peak Flow Rate (cfs)	1.2331
24-Hr Clear Runoff Volume (ac-ft)	0.4798
24-Hr Clear Runoff Volume (cu-ft)	20898.5452



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0.75-INCH

Peak Flow Hydrologic Analysis

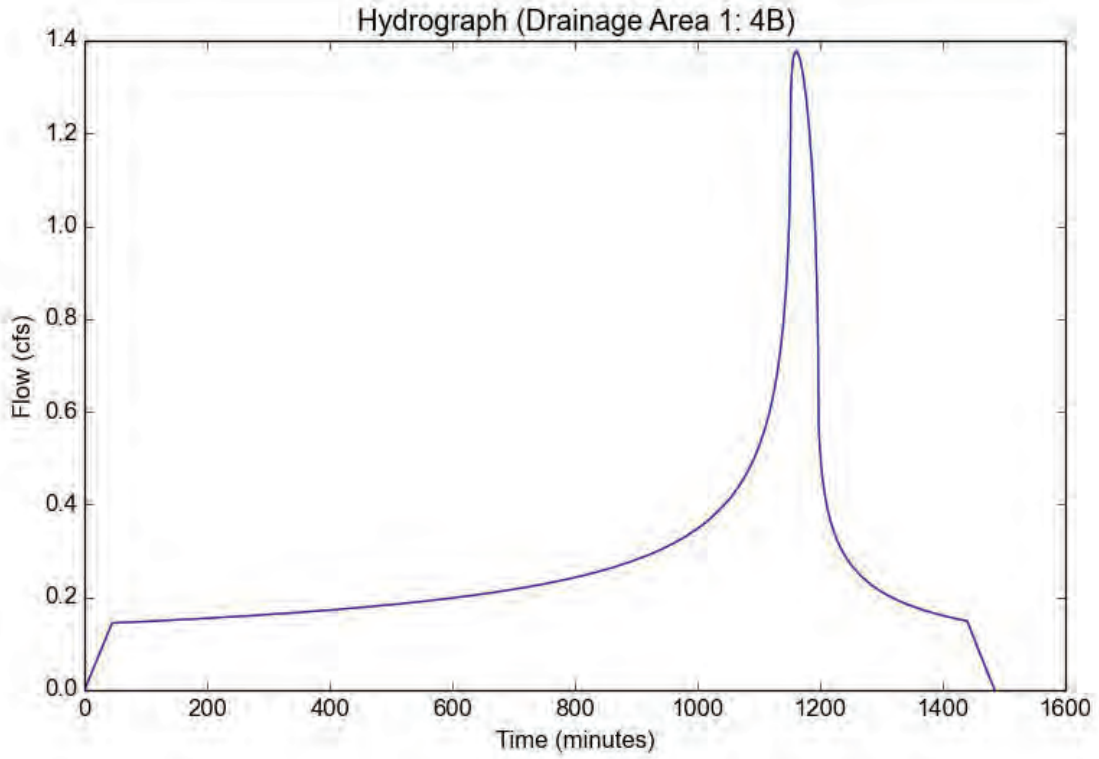
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	4B
Area (ac)	9.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.3765
Burned Peak Flow Rate (cfs)	1.3765
24-Hr Clear Runoff Volume (ac-ft)	0.5356
24-Hr Clear Runoff Volume (cu-ft)	23328.6086



ESTU2023000671
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0.75-INCH

Peak Flow Hydrologic Analysis

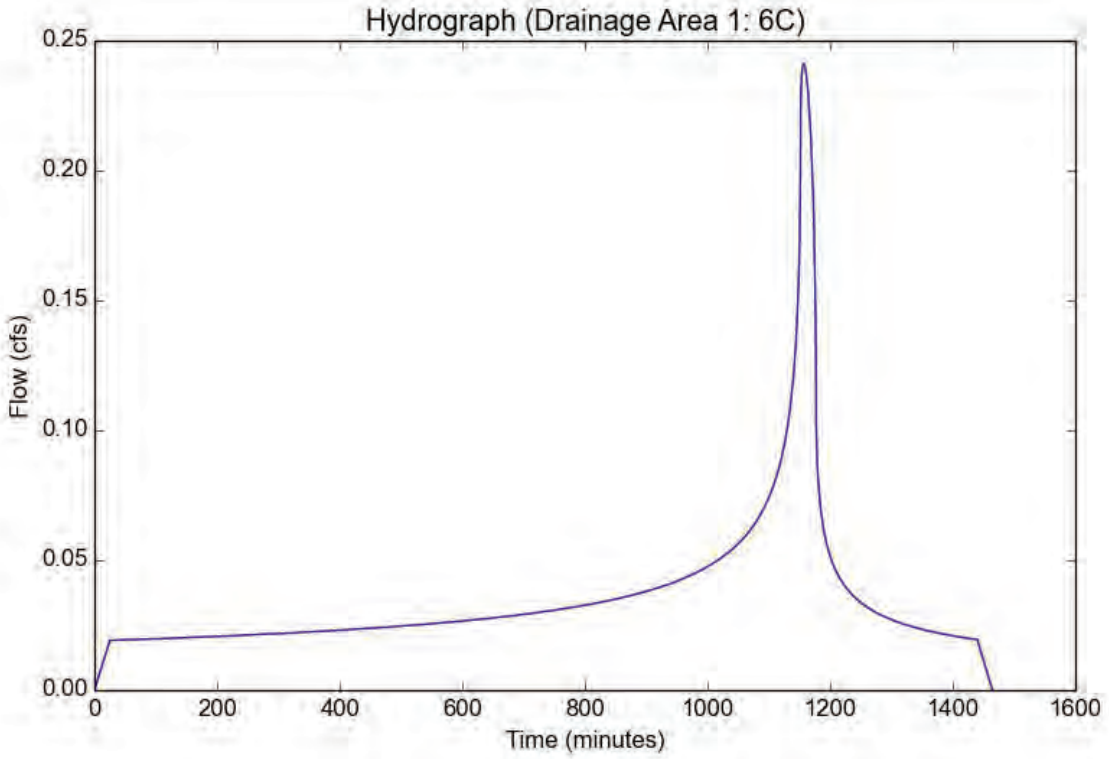
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	6C
Area (ac)	1.4
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.21
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.2411
Burned Peak Flow Rate (cfs)	0.2411
24-Hr Clear Runoff Volume (ac-ft)	0.0712
24-Hr Clear Runoff Volume (cu-ft)	3099.6246



ESTU2023000671
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0.75-INCH

Peak Flow Hydrologic Analysis

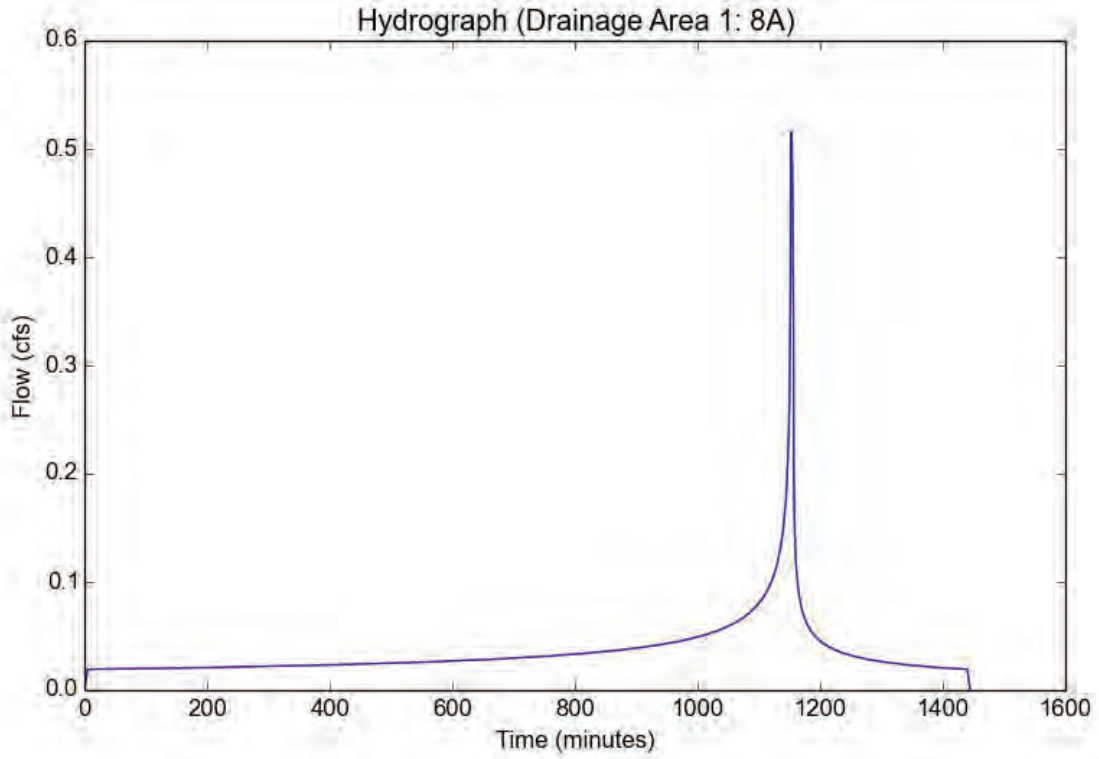
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 1
Subarea ID	8A
Area (ac)	6.4
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.4475
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	0.5155
Burned Peak Flow Rate (cfs)	0.5155
24-Hr Clear Runoff Volume (ac-ft)	0.0714
24-Hr Clear Runoff Volume (cu-ft)	3110.401



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0.75-INCH

Peak Flow Hydrologic Analysis

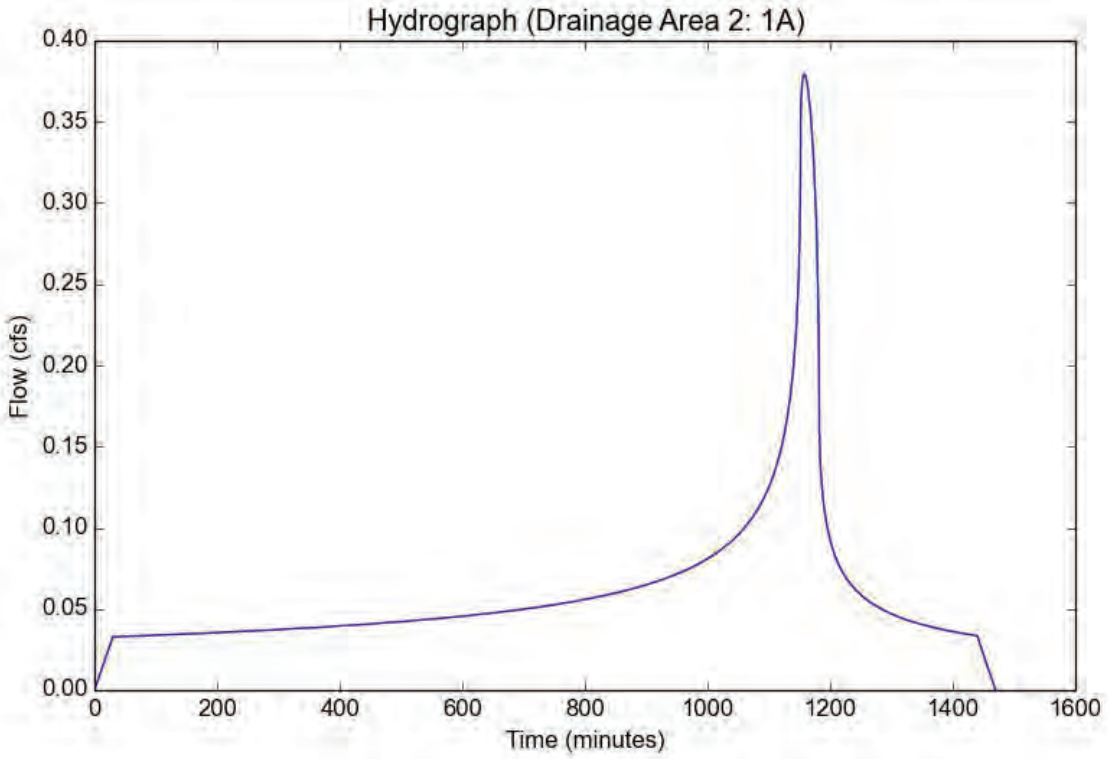
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	1A
Area (ac)	2.4
Flow Path Length (ft)	490.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1928
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.3794
Burned Peak Flow Rate (cfs)	0.3794
24-Hr Clear Runoff Volume (ac-ft)	0.122
24-Hr Clear Runoff Volume (cu-ft)	5313.661



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

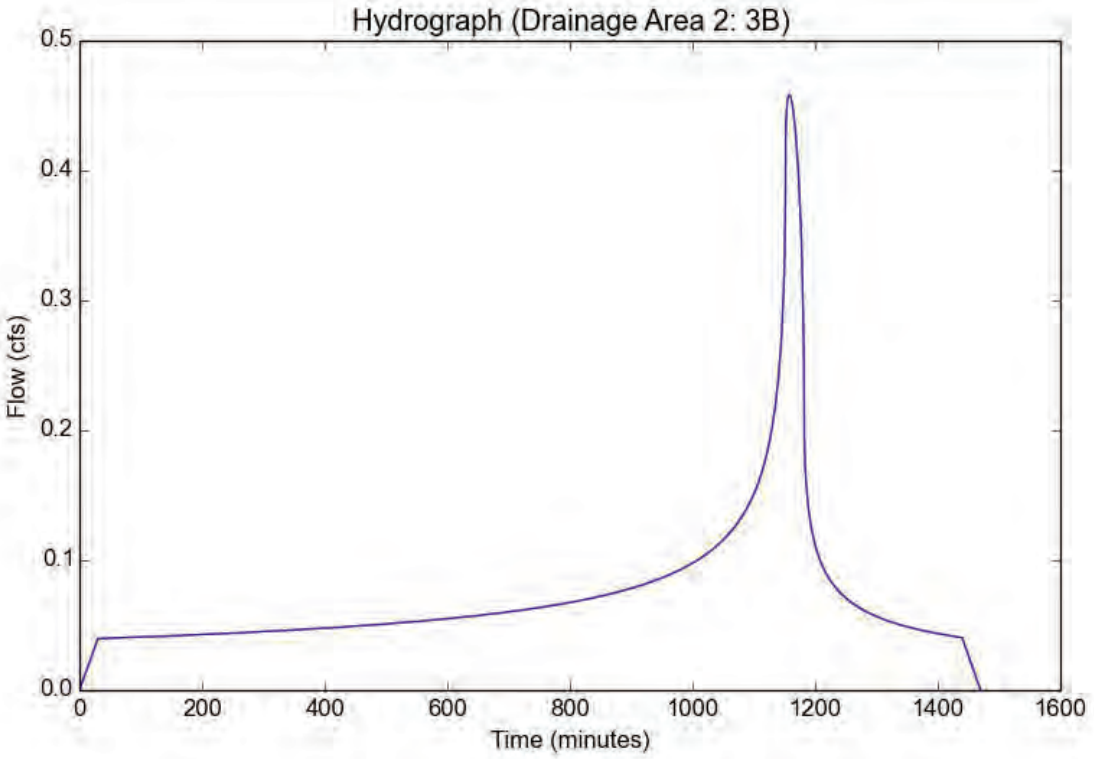
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	3B
Area (ac)	2.9
Flow Path Length (ft)	490.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1928
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.4584
Burned Peak Flow Rate (cfs)	0.4584
24-Hr Clear Runoff Volume (ac-ft)	0.1474
24-Hr Clear Runoff Volume (cu-ft)	6420.6737



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

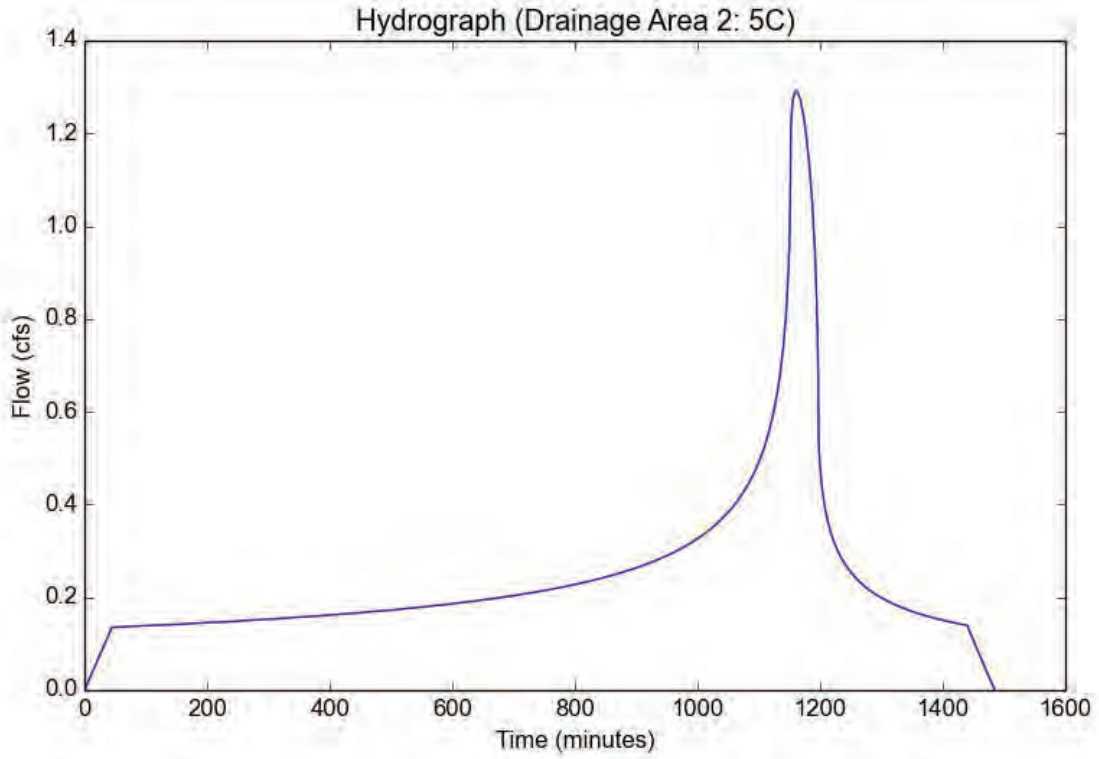
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	5C
Area (ac)	9.0
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.2905
Burned Peak Flow Rate (cfs)	1.2905
24-Hr Clear Runoff Volume (ac-ft)	0.5021
24-Hr Clear Runoff Volume (cu-ft)	21870.5706



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

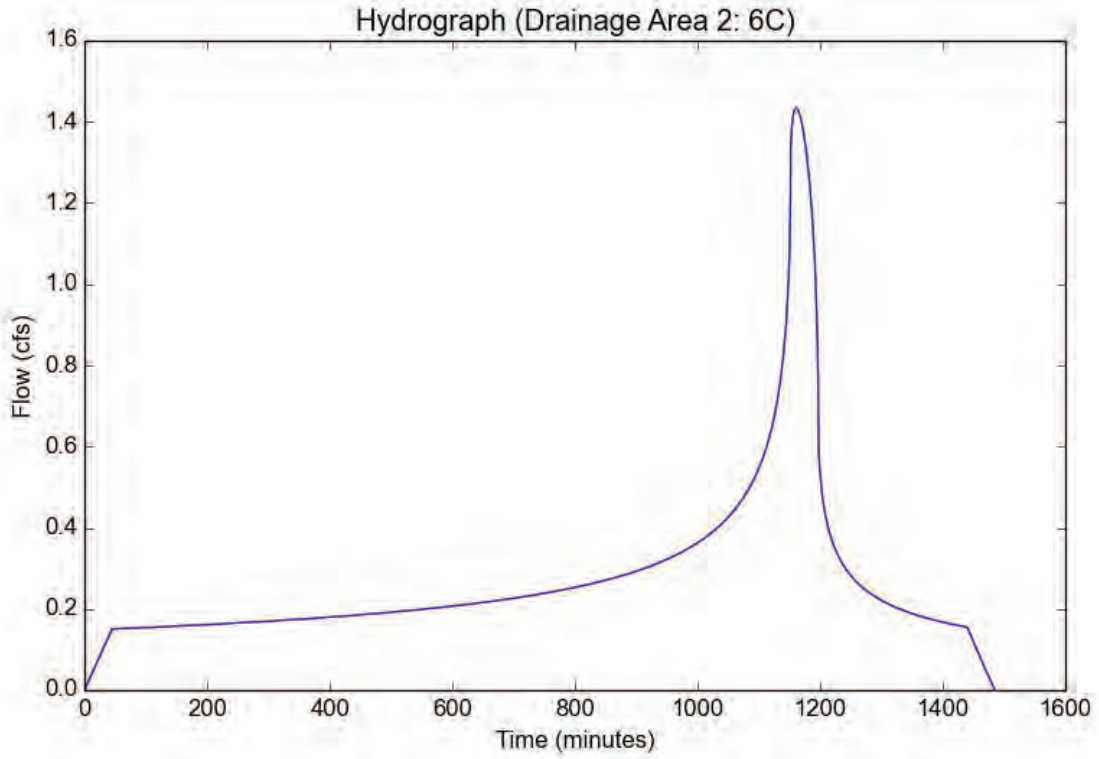
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	6C
Area (ac)	10.0
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.4339
Burned Peak Flow Rate (cfs)	1.4339
24-Hr Clear Runoff Volume (ac-ft)	0.5579
24-Hr Clear Runoff Volume (cu-ft)	24300.634



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

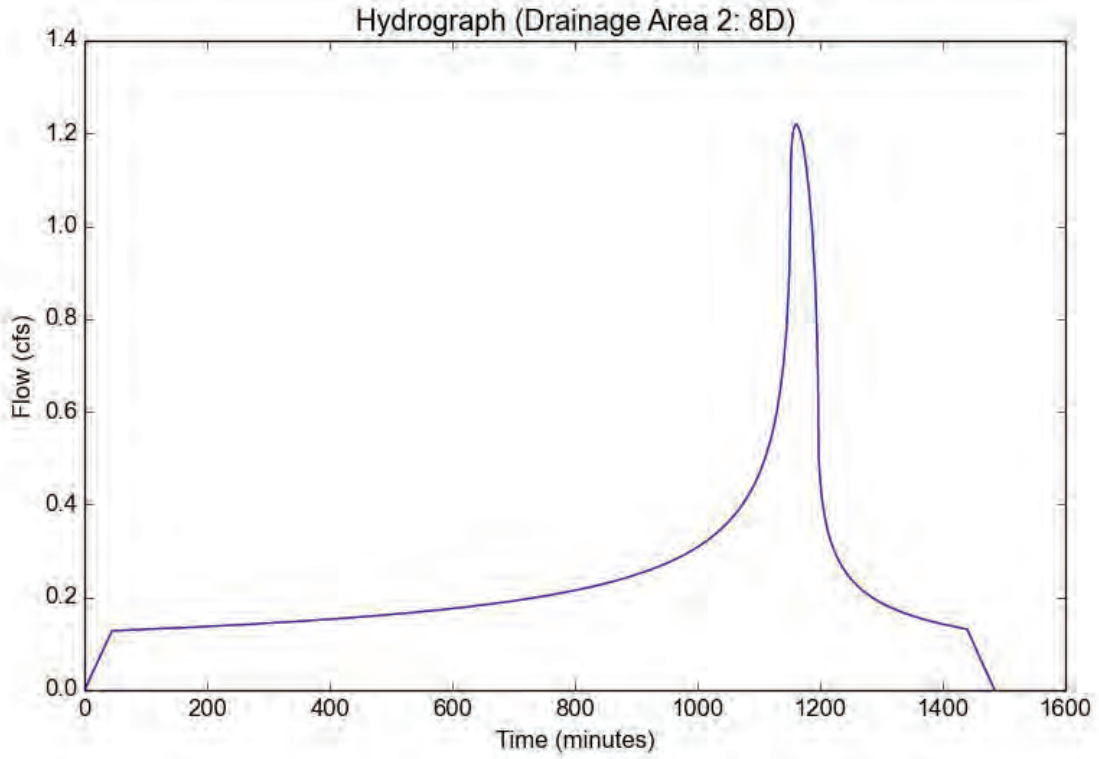
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	8D
Area (ac)	8.5
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.2188
Burned Peak Flow Rate (cfs)	1.2188
24-Hr Clear Runoff Volume (ac-ft)	0.4742
24-Hr Clear Runoff Volume (cu-ft)	20655.5389



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

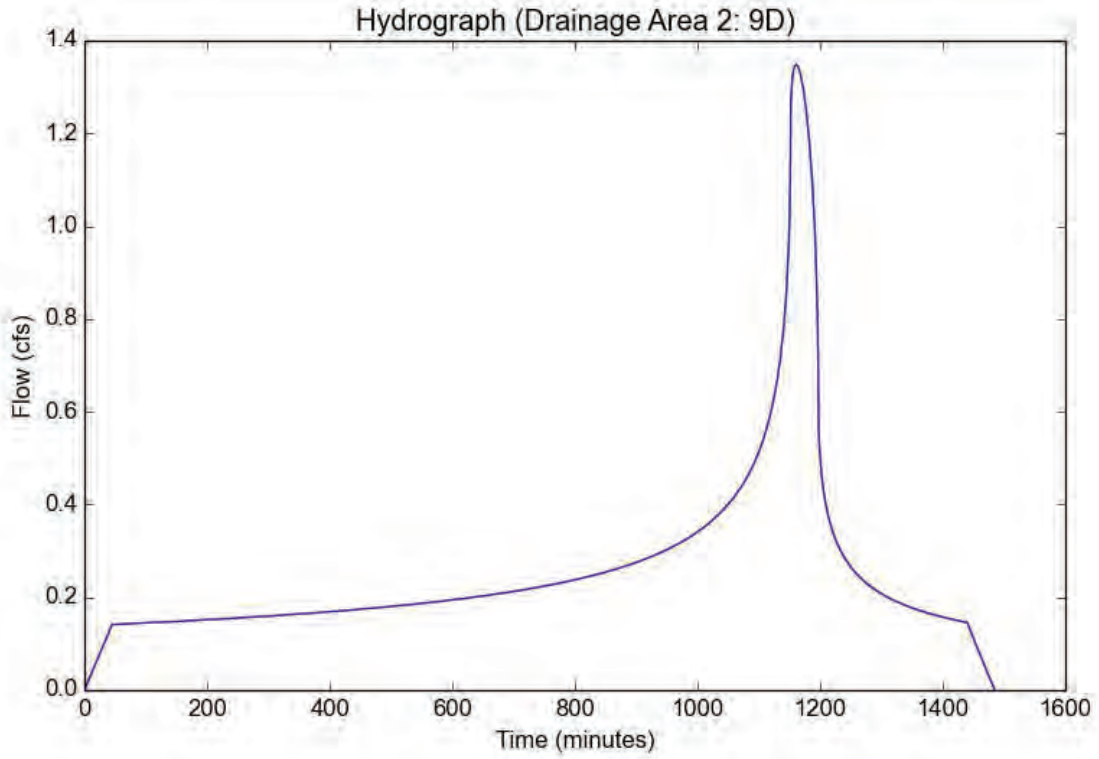
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	9D
Area (ac)	9.4
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.3478
Burned Peak Flow Rate (cfs)	1.3478
24-Hr Clear Runoff Volume (ac-ft)	0.5244
24-Hr Clear Runoff Volume (cu-ft)	22842.5959



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

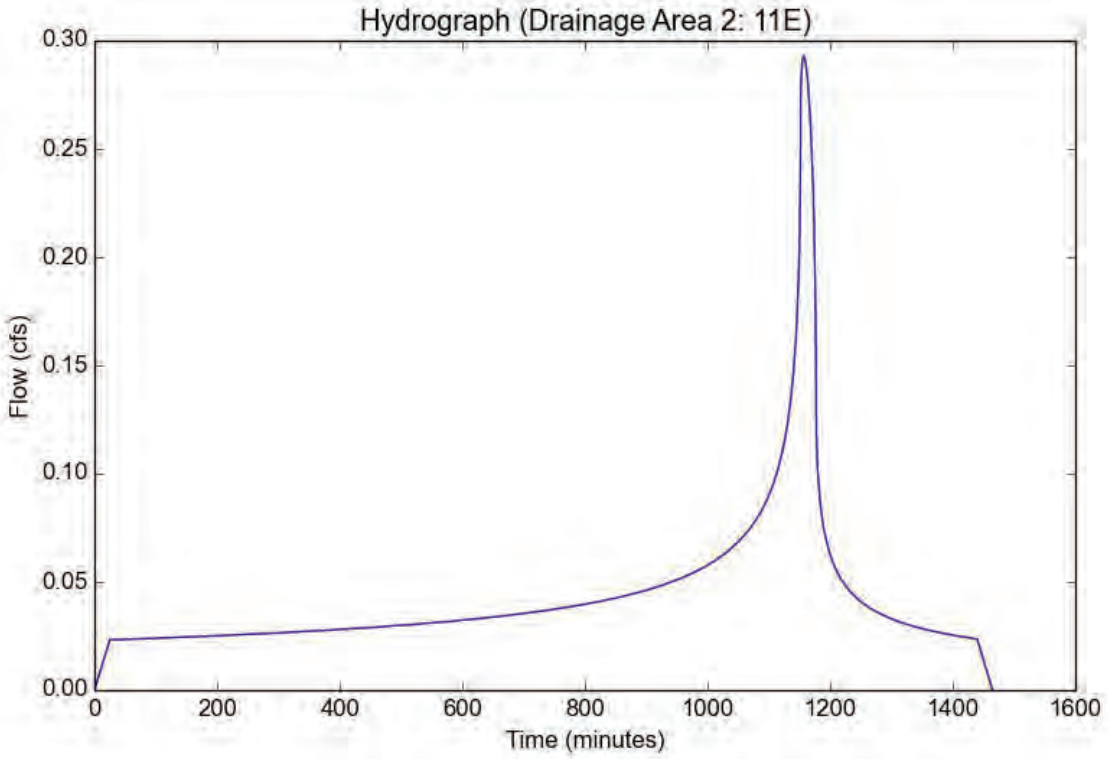
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	11E
Area (ac)	1.7
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.21
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.2928
Burned Peak Flow Rate (cfs)	0.2928
24-Hr Clear Runoff Volume (ac-ft)	0.0864
24-Hr Clear Runoff Volume (cu-ft)	3763.8299



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

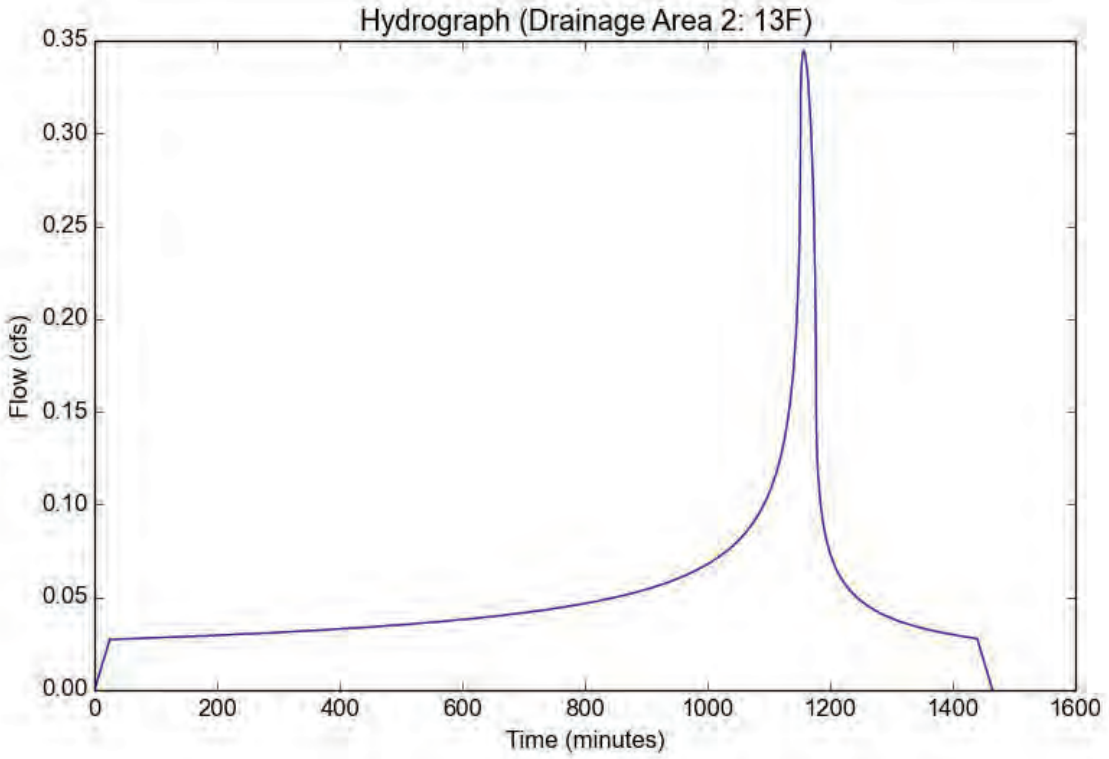
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	13F
Area (ac)	2.0
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.21
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.3444
Burned Peak Flow Rate (cfs)	0.3444
24-Hr Clear Runoff Volume (ac-ft)	0.1017
24-Hr Clear Runoff Volume (cu-ft)	4428.0352



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

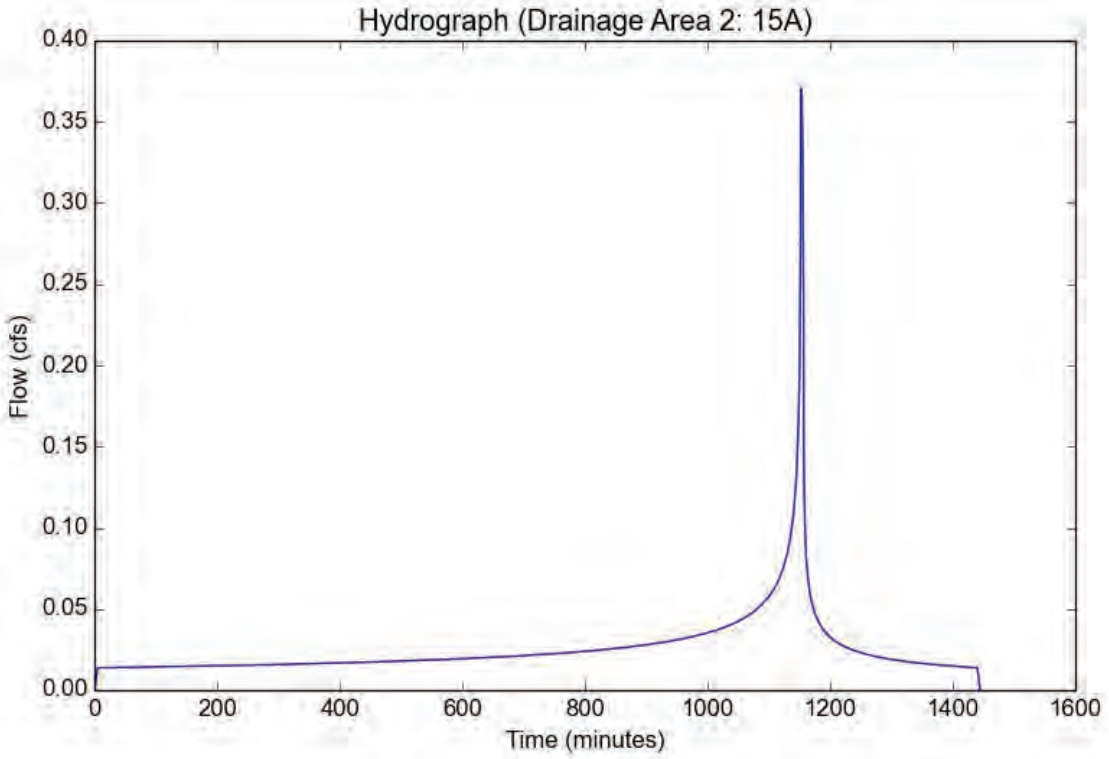
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	15A
Area (ac)	4.6
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.4475
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	0.3705
Burned Peak Flow Rate (cfs)	0.3705
24-Hr Clear Runoff Volume (ac-ft)	0.0513
24-Hr Clear Runoff Volume (cu-ft)	2235.6007



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

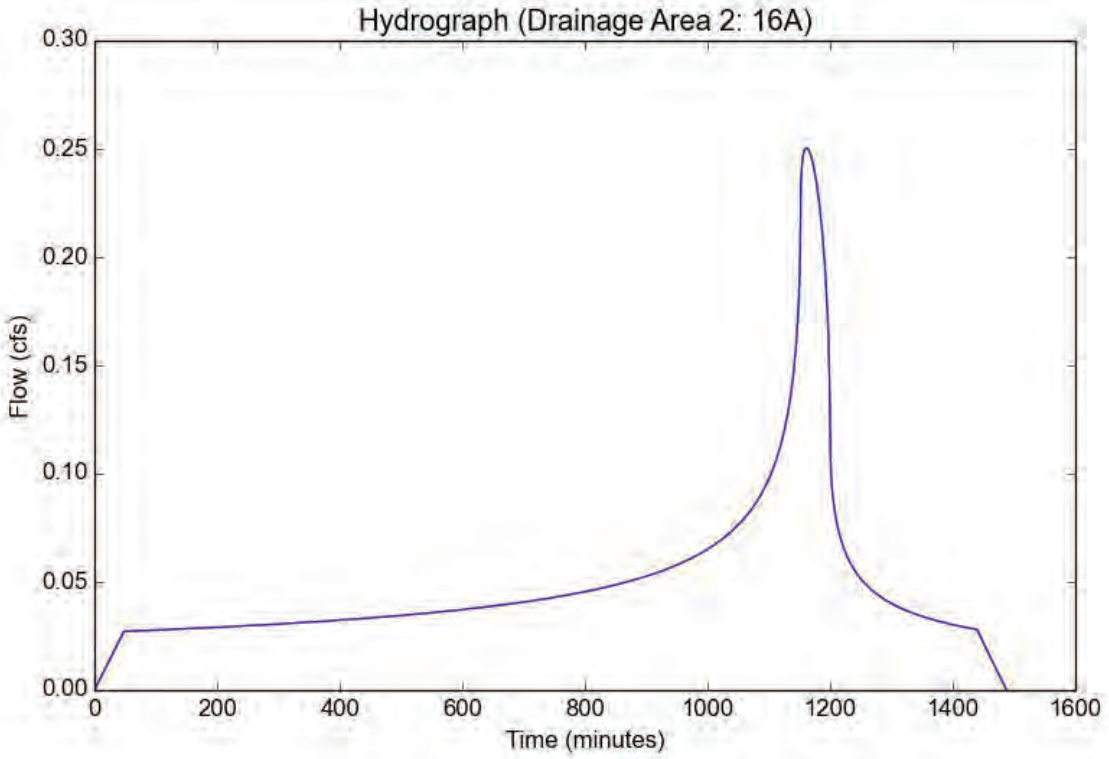
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 2
Subarea ID	16A
Area (ac)	1.8
Flow Path Length (ft)	930.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1546
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	48.0
Clear Peak Flow Rate (cfs)	0.2504
Burned Peak Flow Rate (cfs)	0.2504
24-Hr Clear Runoff Volume (ac-ft)	0.1004
24-Hr Clear Runoff Volume (cu-ft)	4374.1301



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

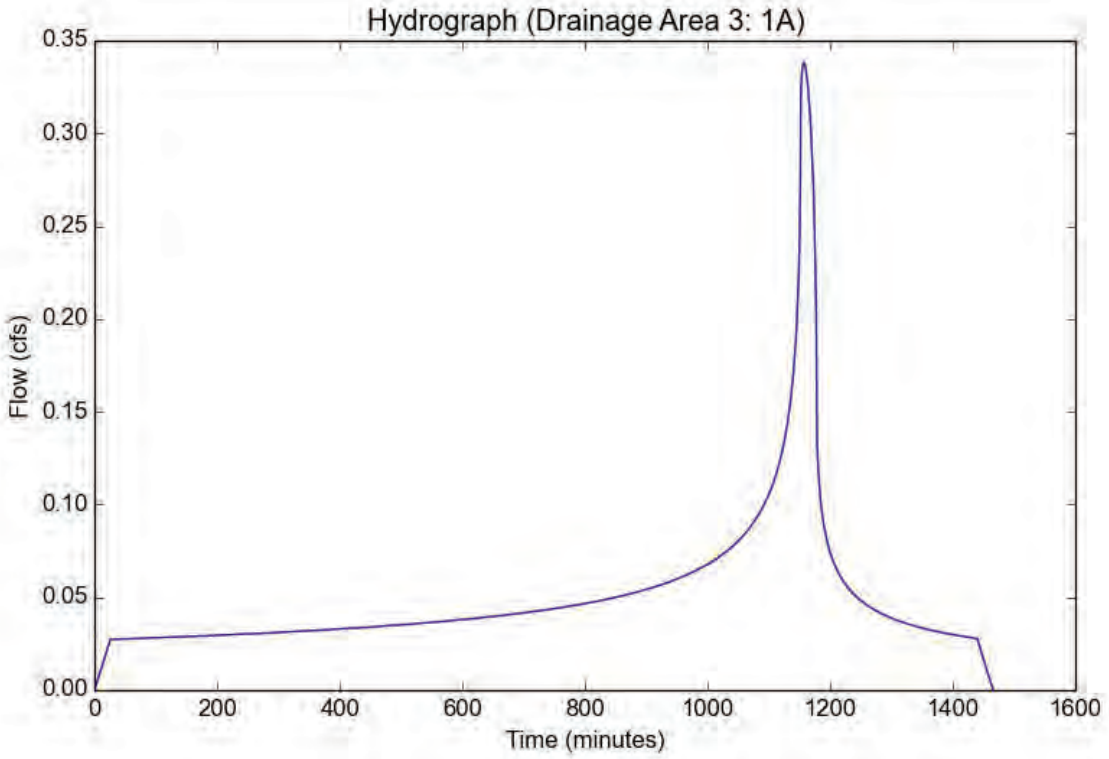
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	1A
Area (ac)	2.0
Flow Path Length (ft)	390.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.2062
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.3381
Burned Peak Flow Rate (cfs)	0.3381
24-Hr Clear Runoff Volume (ac-ft)	0.1017
24-Hr Clear Runoff Volume (cu-ft)	4428.0381



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

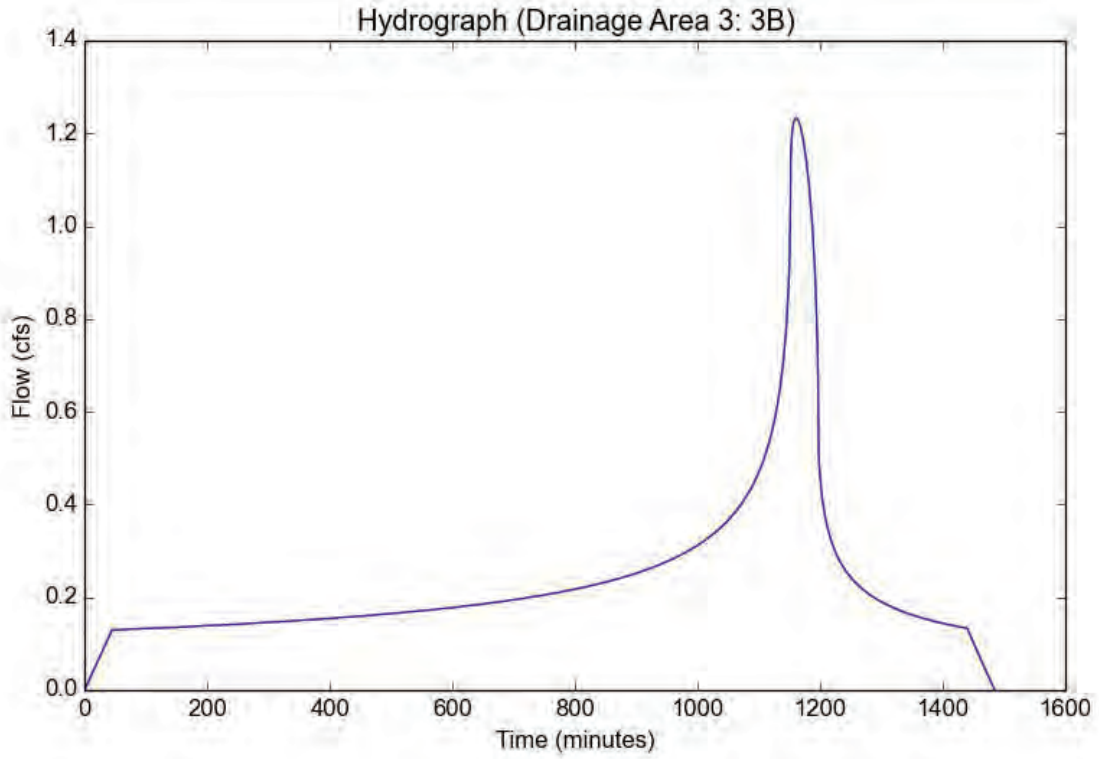
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	3B
Area (ac)	8.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.2331
Burned Peak Flow Rate (cfs)	1.2331
24-Hr Clear Runoff Volume (ac-ft)	0.4798
24-Hr Clear Runoff Volume (cu-ft)	20898.5452



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

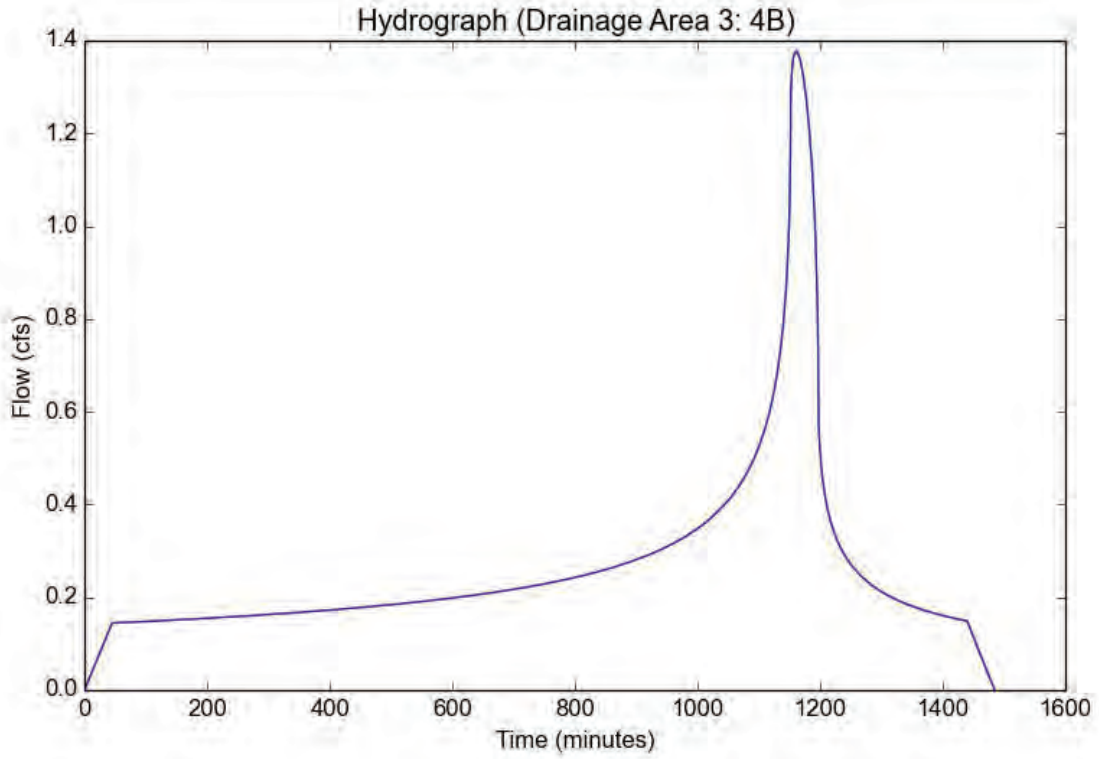
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	4B
Area (ac)	9.6
Flow Path Length (ft)	1010.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1593
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	45.0
Clear Peak Flow Rate (cfs)	1.3765
Burned Peak Flow Rate (cfs)	1.3765
24-Hr Clear Runoff Volume (ac-ft)	0.5356
24-Hr Clear Runoff Volume (cu-ft)	23328.6086



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

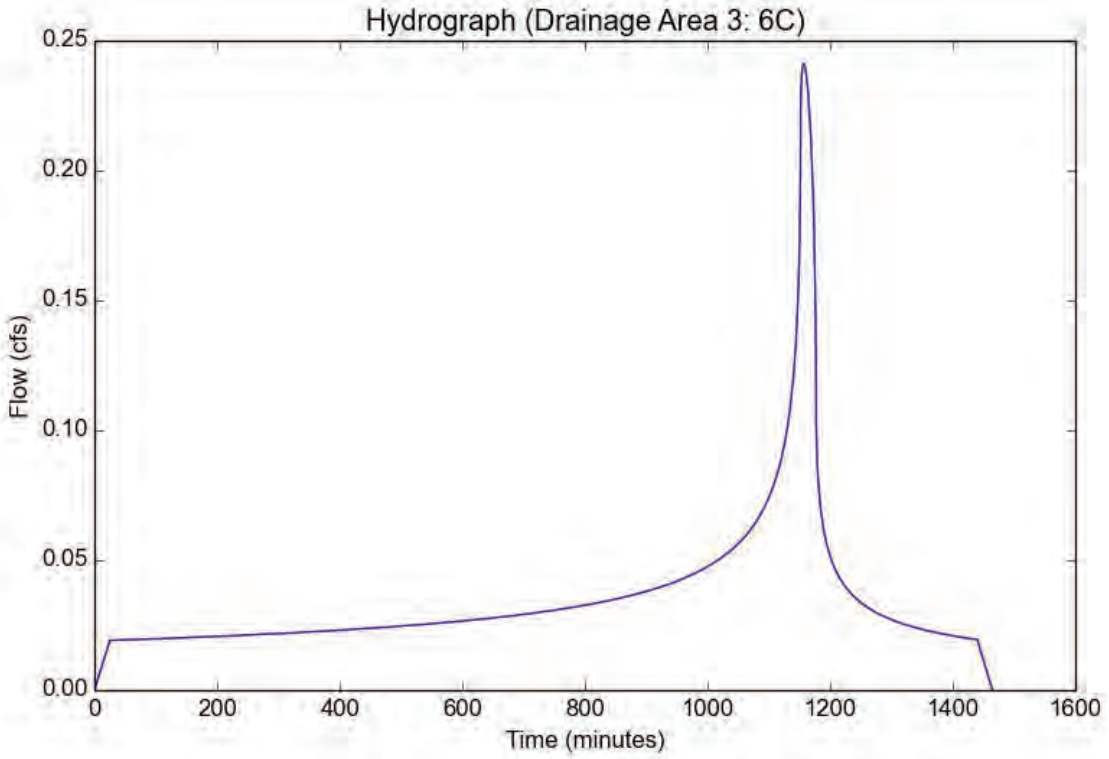
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	6C
Area (ac)	1.4
Flow Path Length (ft)	370.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.9
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.21
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.82
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.2411
Burned Peak Flow Rate (cfs)	0.2411
24-Hr Clear Runoff Volume (ac-ft)	0.0712
24-Hr Clear Runoff Volume (cu-ft)	3099.6246



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

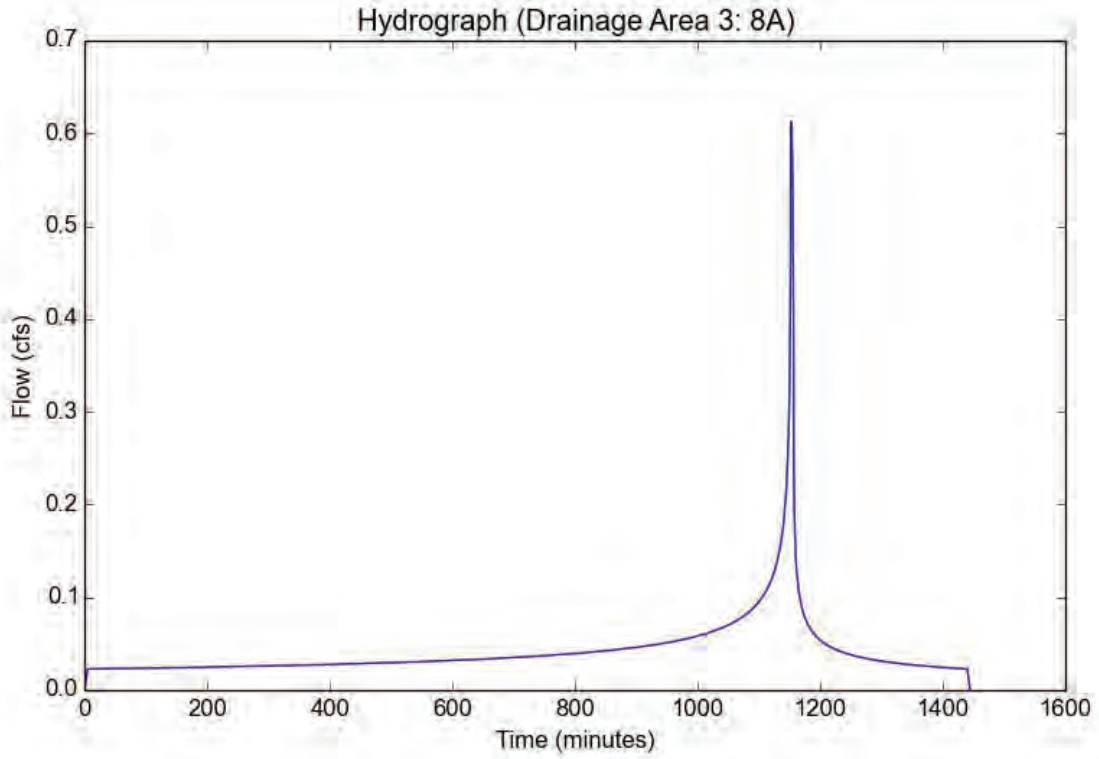
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	8A
Area (ac)	7.6
Flow Path Length (ft)	5.0
Flow Path Slope (vft/hft)	0.01
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.4475
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	0.6121
Burned Peak Flow Rate (cfs)	0.6121
24-Hr Clear Runoff Volume (ac-ft)	0.0848
24-Hr Clear Runoff Volume (cu-ft)	3693.6012



ESTU2023000671
RPPL2022013992

0.75-INCH

Peak Flow Hydrologic Analysis

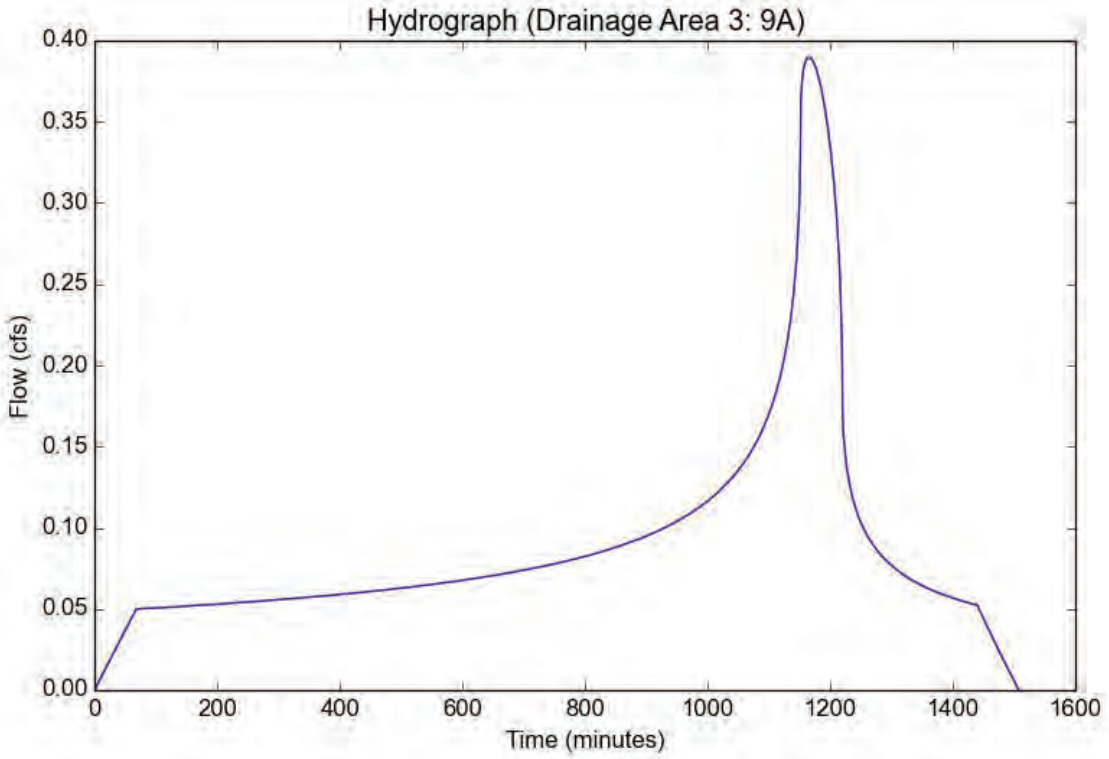
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Drainage Area 3
Subarea ID	9A
Area (ac)	3.3
Flow Path Length (ft)	1600.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	1.0
Soil Type	120
Design Storm Frequency	0.75 inch storm
Fire Factor	0
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1312
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	68.0
Clear Peak Flow Rate (cfs)	0.3897
Burned Peak Flow Rate (cfs)	0.3897
24-Hr Clear Runoff Volume (ac-ft)	0.1841
24-Hr Clear Runoff Volume (cu-ft)	8019.485



Appendix VII: Postdeveloped LAR04

ESTU2023000671
RPPL2022013992

Drainage Area 1

Program Package Serial Number: 2240

12/24/23 FILE: 23136 INPUT DATA: English Units RAINFALL SOIL FILE: English (In) OUTPUT DATA: English Units PAGE 1

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601M

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 50 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	1.9	1.71	1.9	1.71	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	1.9	1.71	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	6.40	8.6	6.40	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	7.15	18.2	12.78	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	12.77	20.1	14.21	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	1.32	1.4	1.32	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	1.32	21.5	15.37	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	6.4	5.10	27.9	18.42	0	0.	.00000	.00	.00	0.	120	5	A13	.10

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 25 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	1.9	1.49	1.9	1.49	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	1.9	1.49	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	5.62	8.6	5.62	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	6.28	18.2	11.18	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	11.18	20.1	12.43	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	1.15	1.4	1.15	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	1.15	21.5	13.42	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	6.4	4.17	27.9	15.80	0	0.	.00000	.00	.00	0.	120	5	A13	.10

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 10 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	1.9	1.20	1.9	1.20	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	1.9	1.20	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	4.57	8.6	4.57	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	5.10	18.2	9.04	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	9.04	20.1	10.03	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	.93	1.4	.93	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.92	21.5	10.82	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	6.4	2.95	27.9	12.31	0	0.	.00000	.00	.00	0.	120	5	A13	.10

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 5 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	1.9	.97	1.9	.97	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	1.9	.97	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	3.74	8.6	3.74	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	4.17	18.2	7.35	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	7.35	20.1	8.14	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	.75	1.4	.75	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.74	21.5	8.77	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	6.4	1.98	27.9	9.58	0	0.	.00000	.00	.00	0.	120	5	A13	.10

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 2 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	1.9	.64	1.9	.64	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	1.9	.64	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	2.48	8.6	2.48	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	2.77	18.2	4.81	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	4.81	20.1	5.31	0	0.	.00000	.00	.00	0.	120	0	A13	.00

3136	6C	1.4	.50	1.4	.50	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.49	21.5	5.73	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	6.4	.69	27.9	5.92	0	0.	.00000	.00	.00	0.	120	5	A13	.10

ESTU2023000671
RPPL2022013992

Drainage Area 1

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 0.75 inch SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

STORM DAY 4

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	RAIN ZONE	PCT IMPV
3136	1A	1.9	.48	1.9	.48	4	120.	.01000	2.00	.00	0.	120	11	A 3	.90
3136	2A	.0	.00	1.9	.48	0	0.	.00000	.00	.00	0.	120	99	A 3	.00
3136	3B	8.6	1.86	8.6	1.86	3	600.	.00500	.00	.01	0.	120	19	A 3	1.00
3136	4B	9.6	2.07	18.2	3.56	4	50.	.04000	3.00	.00	0.	120	19	A 3	1.00
3136	5AB	18.2	3.56	20.1	3.90	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	6C	1.4	.37	1.4	.37	4	120.	.01000	2.00	.00	0.	120	10	A 3	.90
3136	7AC	1.4	.37	21.5	4.21	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	8A	6.4	.51	27.9	4.37	0	0.	.00000	.00	.00	0.	120	5	A 3	.10

ESTU2023000671
RPPL2022013992

Drainage Area 2

Program Package Serial Number: 2240

02/27/24 FILE: 23136 INPUT DATA: English Units RAINFALL SOIL FILE: English (In) OUTPUT DATA: English Units PAGE 1

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601M

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 0.75–INCH SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	2.4	.56	2.4	.56	4	80.	.01000	2.00	.00	0.	120	13	A 3	.90
3136	2A	.0	.00	2.4	.56	0	0.	.00000	.00	.00	0.	120	99	A 3	.00
3136	3B	2.9	.68	2.9	.68	4	50.	.01000	2.00	.00	0.	120	13	A 3	.90
3136	4AB	2.9	.68	5.3	1.23	4	200.	.01000	2.00	.00	0.	120	0	A 3	.00
3136	5C	9.0	1.94	9.0	1.94	3	500.	.00500	.00	1.00	0.	120	19	A 3	1.00
3136	6C	10.0	2.16	19.0	3.80	4	20.	.05000	3.00	.00	0.	120	19	A 3	1.00
3136	7AC	19.0	3.80	24.3	4.94	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	8D	8.5	1.84	8.5	1.84	3	500.	.00500	.00	1.00	0.	120	19	A 3	1.00
3136	9D	9.4	2.03	17.9	3.58	4	20.	.05000	3.00	.00	0.	120	19	A 3	1.00
3136	10AD	17.9	3.58	42.2	8.48	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	11E	1.7	.45	1.7	.45	4	80.	.01000	2.00	.00	0.	120	10	A 3	.90
3136	12E	.0	.00	1.7	.45	0	0.	.00000	.00	.00	0.	120	99	A 3	.00
3136	13F	2.0	.53	2.0	.53	4	50.	.01000	2.00	.00	0.	120	10	A 3	.90
3136	14EF	2.0	.53	3.7	.97	4	200.	.01000	2.00	.00	0.	120	0	A 3	.00
3136	15A	4.6	.37	46.8	8.56	0	0.	.00000	.00	.00	0.	120	5	A 3	.10
3136	16A	1.8	.38	48.6	8.93	0	0.	.00000	.00	.00	0.	120	20	A 3	1.00
3136	17A	.0	.00	48.6	8.93	0	0.	.00000	.00	.00	0.	120	99	A 3	.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 2 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	2.4	.75	2.4	.75	4	80.	.01000	2.00	.00	0.	120	13	A13	.90
3136	2A	.0	.00	2.4	.75	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	2.9	.90	2.9	.90	4	50.	.01000	2.00	.00	0.	120	13	A13	.90
3136	4AB	2.9	.90	5.3	1.65	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136	5C	9.0	2.59	9.0	2.59	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136	6C	10.0	2.88	19.0	5.13	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	7AC	19.0	5.13	24.3	6.69	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8D	8.5	2.45	8.5	2.45	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136	9D	9.4	2.71	17.9	4.83	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	10AD	17.9	4.83	42.2	11.49	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	11E	1.7	.60	1.7	.60	4	80.	.01000	2.00	.00	0.	120	10	A13	.90
3136	12E	.0	.00	1.7	.60	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	13F	2.0	.71	2.0	.71	4	50.	.01000	2.00	.00	0.	120	10	A13	.90
3136	14EF	2.0	.71	3.7	1.30	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136	15A	4.6	.50	46.8	11.62	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	16A	1.8	.51	48.6	12.11	0	0.	.00000	.00	.00	0.	120	20	A13	1.00
3136	17A	.0	.00	48.6	12.11	0	0.	.00000	.00	.00	0.	120	99	A13	.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 5 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	2.4	1.13	2.4	1.13	4	80.	.01000	2.00	.00	0.	120	13	A13	.90
3136	2A	.0	.00	2.4	1.13	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	2.9	1.37	2.9	1.37	4	50.	.01000	2.00	.00	0.	120	13	A13	.90
3136	4AB	2.9	1.37	5.3	2.49	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136	5C	9.0	3.91	9.0	3.91	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136	6C	10.0	4.35	19.0	7.83	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	7AC	19.0	7.82	24.3	10.19	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8D	8.5	3.70	8.5	3.70	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136	9D	9.4	4.09	17.9	7.37	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	10AD	17.9	7.36	42.2	17.54	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	11E	1.7	.91	1.7	.91	4	80.	.01000	2.00	.00	0.	120	10	A13	.90

3136	12E	.0	.00	1.7	.90	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	13F	2.0	1.07	2.0	1.07	4	50.	.01000	2.00	.00	0.	120	10	A13	.90
3136	14EF	2.0	1.07	3.7	1.97	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136	15A	4.6	1.42	46.8	17.73	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	16A	1.8	.77	48.6	18.47	0	0.	.00000	.00	.00	0.	120	20	A13	1.00
3136	17A	.0	.00	48.6	18.47	0	0.	.00000	.00	.00	0.	120	99	A13	.00

ESTU2023000671
RPPL2022013992

Drainage Area 2

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 10 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION	SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136 1A	2.4	1.39	2.4	1.39	4	80.	.01000	2.00	.00	0.	120	13	A13	.90
3136 2A	.0	.00	2.4	1.39	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136 3B	2.9	1.68	2.9	1.68	4	50.	.01000	2.00	.00	0.	120	13	A13	.90
3136 4AB	2.9	1.68	5.3	3.07	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136 5C	9.0	4.79	9.0	4.79	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136 6C	10.0	5.32	19.0	9.61	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136 7AC	19.0	9.61	24.3	12.52	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136 8D	8.5	4.52	8.5	4.52	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136 9D	9.4	5.00	17.9	9.04	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136 10AD	17.9	9.04	42.2	21.54	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136 11E	1.7	1.13	1.7	1.13	4	80.	.01000	2.00	.00	0.	120	10	A13	.90
3136 12E	.0	.00	1.7	1.12	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136 13F	2.0	1.33	2.0	1.33	4	50.	.01000	2.00	.00	0.	120	10	A13	.90
3136 14EF	2.0	1.32	3.7	2.44	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136 15A	4.6	2.12	46.8	21.77	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136 16A	1.8	.94	48.6	22.69	0	0.	.00000	.00	.00	0.	120	20	A13	1.00
3136 17A	.0	.00	48.6	22.69	0	0.	.00000	.00	.00	0.	120	99	A13	.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 25 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION	SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136 1A	2.4	1.73	2.4	1.73	4	80.	.01000	2.00	.00	0.	120	13	A13	.90
3136 2A	.0	.00	2.4	1.73	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136 3B	2.9	2.09	2.9	2.09	4	50.	.01000	2.00	.00	0.	120	13	A13	.90
3136 4AB	2.9	2.09	5.3	3.82	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136 5C	9.0	5.88	9.0	5.88	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136 6C	10.0	6.54	19.0	11.87	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136 7AC	19.0	11.87	24.3	15.52	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136 8D	8.5	5.56	8.5	5.56	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136 9D	9.4	6.15	17.9	11.17	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136 10AD	17.9	11.17	42.2	26.64	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136 11E	1.7	1.40	1.7	1.40	4	80.	.01000	2.00	.00	0.	120	10	A13	.90
3136 12E	.0	.00	1.7	1.39	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136 13F	2.0	1.65	2.0	1.65	4	50.	.01000	2.00	.00	0.	120	10	A13	.90
3136 14EF	2.0	1.65	3.7	3.04	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136 15A	4.6	3.00	46.8	26.95	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136 16A	1.8	1.15	48.6	28.09	0	0.	.00000	.00	.00	0.	120	20	A13	1.00
3136 17A	.0	.00	48.6	28.09	0	0.	.00000	.00	.00	0.	120	99	A13	.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 50 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION	SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136 1A	2.4	1.99	2.4	1.99	4	80.	.01000	2.00	.00	0.	120	13	A13	.90
3136 2A	.0	.00	2.4	1.98	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136 3B	2.9	2.40	2.9	2.40	4	50.	.01000	2.00	.00	0.	120	13	A13	.90
3136 4AB	2.9	2.40	5.3	4.38	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136 5C	9.0	6.70	9.0	6.70	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00

3136	6C	10.0	7.45	19.0	13.56	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	7AC	19.0	13.56	24.3	17.75	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8D	8.5	6.33	8.5	6.33	3	500.	.00500	.00	1.00	0.	120	19	A13	1.00
3136	9D	9.4	7.00	17.9	12.76	4	20.	.05000	3.00	.00	0.	120	19	A13	1.00
3136	10AD	17.9	12.76	42.2	30.46	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	11E	1.7	1.61	1.7	1.61	4	80.	.01000	2.00	.00	0.	120	10	A13	.90
3136	12E	.0	.00	1.7	1.60	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	13F	2.0	1.89	2.0	1.89	4	50.	.01000	2.00	.00	0.	120	10	A13	.90
3136	14EF	2.0	1.89	3.7	3.49	4	200.	.01000	2.00	.00	0.	120	0	A13	.00
3136	15A	4.6	3.66	46.8	30.82	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	16A	1.8	1.31	48.6	32.11	0	0.	.00000	.00	.00	0.	120	20	A13	1.00
3136	17A	.0	.00	48.6	32.11	0	0.	.00000	.00	.00	0.	120	99	A13	.00

Drainage Area 2

ESTU2023000671
RPPL2022013992

ESTU2023000671
RPPL2022013992

Drainage Area 3

Program Package Serial Number: 2240

02/27/24 FILE: 23136 INPUT DATA: English Units RAINFALL SOIL FILE: English (In) OUTPUT DATA: English Units PAGE 1

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PROG F0601M

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 0.75–INCH SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
3136	1A	2.0	.51	2.0	.51	4	120.	.01000	2.00	.00	0.	120	11	A 3	.90
3136	2A	.0	.00	2.0	.50	0	0.	.00000	.00	.00	0.	120	99	A 3	.00
3136	3B	8.6	1.86	8.6	1.86	3	600.	.00500	.00	.01	0.	120	19	A 3	1.00
3136	4B	9.6	2.07	18.2	3.56	4	50.	.04000	3.00	.00	0.	120	19	A 3	1.00
3136	5AB	18.2	3.56	20.2	3.92	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	6C	1.4	.37	1.4	.37	4	120.	.01000	2.00	.00	0.	120	10	A 3	.90
3136	7AC	1.4	.37	21.6	4.23	0	0.	.00000	.00	.00	0.	120	0	A 3	.00
3136	8A	12.2	.98	33.8	4.74	0	0.	.00000	.00	.00	0.	120	5	A 3	.10
3136	9A	3.3	.58	37.1	5.31	0	0.	.00000	.00	.00	0.	120	29	A 3	1.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 2 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
3136	1A	2.0	.68	2.0	.68	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	2.0	.67	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	2.48	8.6	2.48	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	2.77	18.2	4.81	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	4.81	20.2	5.34	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	.50	1.4	.50	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.49	21.6	5.76	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	12.2	1.32	33.8	6.40	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	9A	3.3	.78	37.1	7.16	0	0.	.00000	.00	.00	0.	120	29	A13	1.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 5 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
3136	1A	2.0	1.02	2.0	1.02	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	2.0	1.02	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	3.74	8.6	3.74	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	4.17	18.2	7.35	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	7.35	20.2	8.19	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	.75	1.4	.75	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.74	21.6	8.82	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	12.2	3.77	33.8	11.42	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	9A	3.3	1.18	37.1	12.55	0	0.	.00000	.00	.00	0.	120	29	A13	1.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 10 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
3136	1A	2.0	1.26	2.0	1.26	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	2.0	1.26	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	4.57	8.6	4.57	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	5.10	18.2	9.04	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	9.04	20.2	10.08	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	.93	1.4	.93	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	.92	21.6	10.87	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	12.2	5.62	33.8	15.04	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	9A	3.3	1.44	37.1	16.42	0	0.	.00000	.00	.00	0.	120	29	A13	1.00

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 25 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM RAIN ZONE	DAY 4 PCT IMPV
3136	1A	2.0	1.57	2.0	1.57	4	120.	.01000	2.00	.00	0.	120	11	A13	.90

3136	2A	.0	.00	2.0	1.57	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	5.62	8.6	5.62	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	6.28	18.2	11.18	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	11.18	20.2	12.49	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	1.15	1.4	1.15	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	1.15	21.6	13.49	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	12.2	7.95	33.8	19.65	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	9A	3.3	1.77	37.1	21.35	0	0.	.00000	.00	.00	0.	120	29	A13	1.00

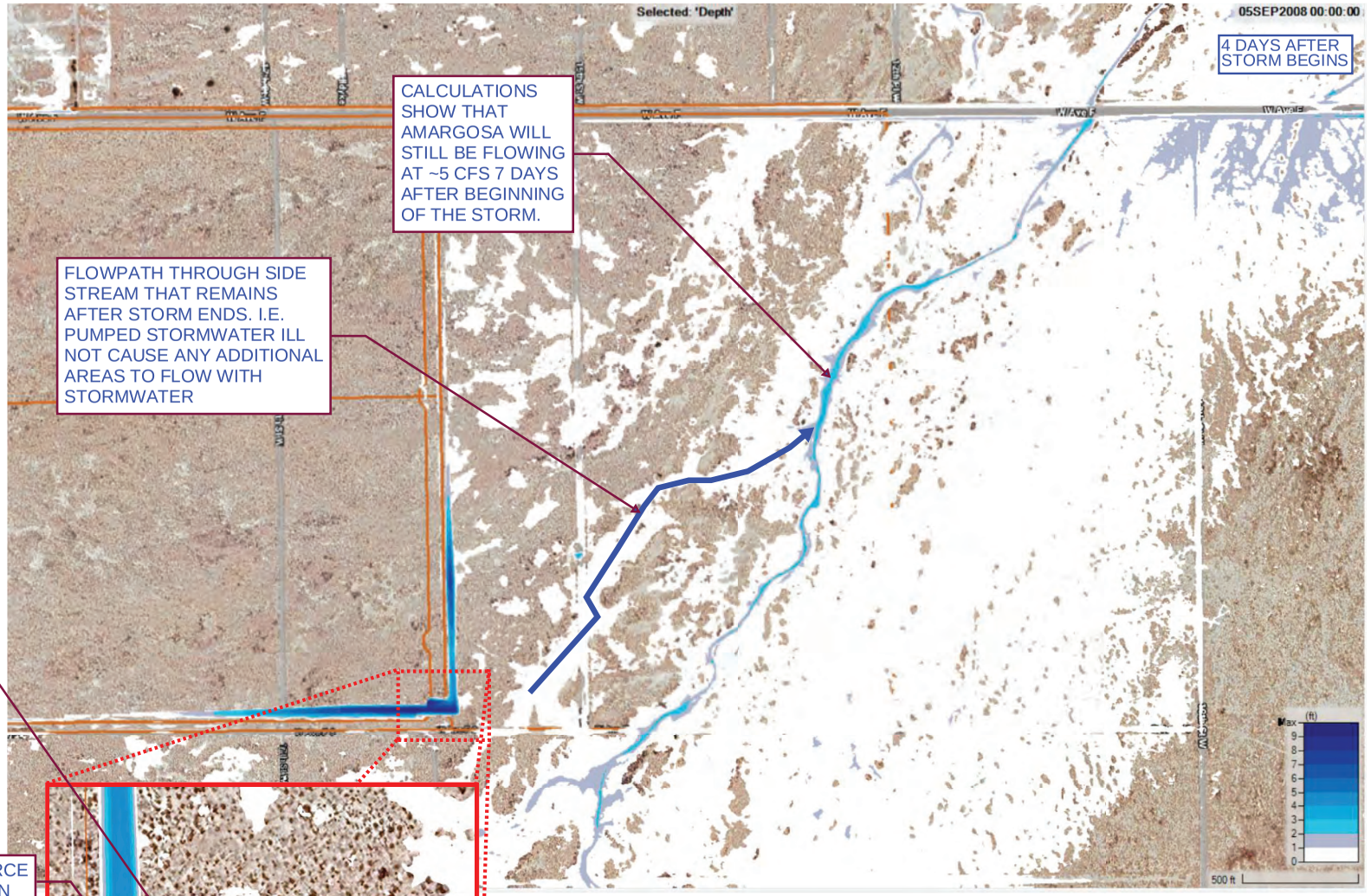
ESTU2023000671
RPPL2022013992

Drainage Area 3

Version 11.3, MODIFIED RATIONAL METHOD HYDROLOGY – STORM YEAR = 50 SOIL DATA FILE: C:\LAR04 – 2240\lasoilx.dat

LOCATION		SUBAREA AREA(Ac)	SUBAREA Q(CFS)	TOTAL AREA(Ac)	TOTAL Q(CFS)	CONV TYPE	CONV LNGTH(Ft)	CONV SLOPE	CONV SIZE(Ft)	CONV Z	CONTROL Q(CFS)	SOIL NAME	TC	STORM DAY 4 RAIN ZONE	PCT IMPV
3136	1A	2.0	1.80	2.0	1.80	4	120.	.01000	2.00	.00	0.	120	11	A13	.90
3136	2A	.0	.00	2.0	1.80	0	0.	.00000	.00	.00	0.	120	99	A13	.00
3136	3B	8.6	6.40	8.6	6.40	3	600.	.00500	.00	.01	0.	120	19	A13	1.00
3136	4B	9.6	7.15	18.2	12.78	4	50.	.04000	3.00	.00	0.	120	19	A13	1.00
3136	5AB	18.2	12.77	20.2	14.29	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	6C	1.4	1.32	1.4	1.32	4	120.	.01000	2.00	.00	0.	120	10	A13	.90
3136	7AC	1.4	1.32	21.6	15.45	0	0.	.00000	.00	.00	0.	120	0	A13	.00
3136	8A	12.2	9.71	33.8	23.12	0	0.	.00000	.00	.00	0.	120	5	A13	.10
3136	9A	3.3	2.02	37.1	25.06	0	0.	.00000	.00	.00	0.	120	29	A13	1.00

Appendix VIII: Pump Exhibit



ESTU2023000671
RPPL2022013992

NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

Appendix IX: On-Site Basin Infiltration Area Calculation

ESTU2023000671
RPPL2022013992

Basin	Infiltration Rate [in/hr]	Basin Bottom Area [Sq. Ft.]	Infiltration Rate [cfs]	Additional Area [Sq. Ft.]	Infiltration Rate [cfs]	Tributary Volume [Ac.-Ft.]
North	0.163	105000	0.396	0	0.00	4.13
Center	0.352	67000	0.546	0	0.00	8.08
South	0.321	195000	1.449	0	0.00	4.41

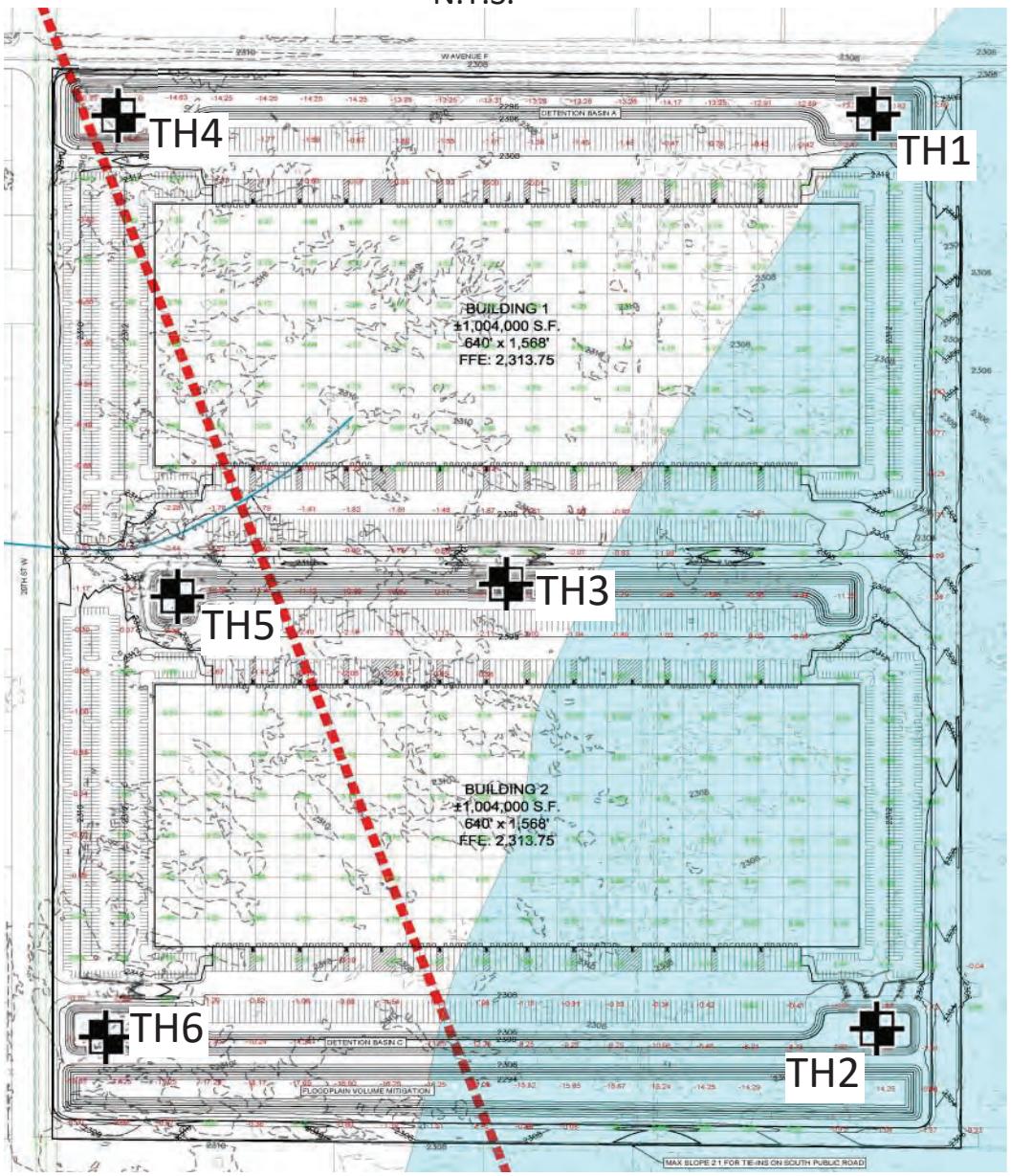
Total Infiltration Rate [cfs]:	2.39
Total Volume Tributary to Basins [Cu. Ft.]:	815,290
Drawdown Time [hours]	**94.7**

Appendix X: Infiltration Exhibit

ESTU2023000671
RPPL2022013992

Test Hole Location Map

N.T.S.



TH1 = Denotes Approximate Test Hole Location

Test Hole	Basin	Invert Depth Tested (ft.)
1	A, east end	12
2	C, east end	6
3	B, center	10
4	A, west end	12
5	B, west end	10
6	C, west end	6

Test Hole No.	**1**	**2**	**3**	**4**	**5**	**6**
Presoak	Pass	Fail	Pass	Fail	Fail	Pass
Infiltration Rate	0.163	Fail	0.352	Fail	Fail	0.321

Appendix XI: GMED Infiltration Letter

ESTU2023000671
RPPL2022013992

Dist. Office -
PCA L000671LID / A402
EPIC LA ESTU2023000677
Telephone: (626) 458-4925

County of Los Angeles Department of Public Works
Geotechnical and Materials Engineering Division
GEOLOGIC AND GEOTECHNICAL ENGINEERING REVIEW SHEET
900 S. Fremont Avenue, Alhambra, CA 91803

Tract / Parcel Map		**Lot(s)**	**Parent Tract**
Site Address	(Vacant) 20th Street West at Avenue F	**Location** Lancaster	**APN** 3118-015-001
Geologist	---	**Developer/Owner**	NorthPoint Development
Soils Engineer	---	**Engineer/Arch.**	JT Engineering, Inc / studioNorth Architecture

Review of:

C.U.P. No.: CUP RPPL2022013992 For: LID Review for CUP, Proposed Industrial Warehousing & Distribution Buildings
Submittal Received by GMED: **11/27/2023**

Geologic Report(s) Dated: --
Soils Engineering Report(s) Dated: **08/07/2023**
Geotechnical Report(s) Dated: --
References: -

Remarks:

GMED has no comments at this time.

NOTE(S) TO THE PLAN CHECKER/BUILDING AND SAFETY DISTRICT ENGINEER:

A. A DESIGN INFILTRATION RATE OF 0.163 IN/HR WITH A TESTED INVERT DEPTH AT 14 FEET BGS MAY BE APPLIED TO THE PROPOSED NORTH DETENTION BASIN.
B. A DESIGN INFILTRATION RATE OF 0.352 IN/HR WITH A TESTED INVERT DEPTH AT 11 FEET BGS MAY BE APPLIED TO THE PROPOSED CENTER DETENTION BASIN.
C. A DESIGN INFILTRATION RATE OF 0.321 IN/HR WITH A TESTED INVERT DEPTH AT 18 FEET BGS MAY BE APPLIED TO THE PROPOSED SOUTH DETENTION BASIN.

Prepared by

REGISTERED PROFESSIONAL ENGINEER
JOSE JULIAN URQUIZO
No. 85500
STATE OF CALIFORNIA

-
-

Jose J. Urquizo
Geotechnical Section

Date 12/15/2023

Please complete a Customer Service Survey at http://dpw.lacounty.gov/go/gmedsurvey

NOTICE: Public safety, relative to geotechnical subsurface exploration, shall be provided in accordance with current codes for excavations, inclusive of the Los Angeles County Code, Chapter 11.48, and the State of California, Title 8, Construction Safety Orders.

Appendix XII: Channel Purge Calculations

2,000 Linear Feet of Channel Section G-G and D-D

Trapezoid Dimensions

$$B_1 = 15'$$

$$B_2 = 39'$$

$$H = 6'$$

$$Area = 162\ sq.ft.$$

$$Volume = 324{,}000\ Cu.Ft.$$

2,450 Linear Feet of Channel Section E-E and F-F

Trapezoid Dimensions

$$B_1 = 40'$$

$$B_2 = 80'$$

$$H = 10'$$

$$Area = 600\ sq.ft.$$

$$Volume = 1{,}470{,}000\ Cu.Ft.$$

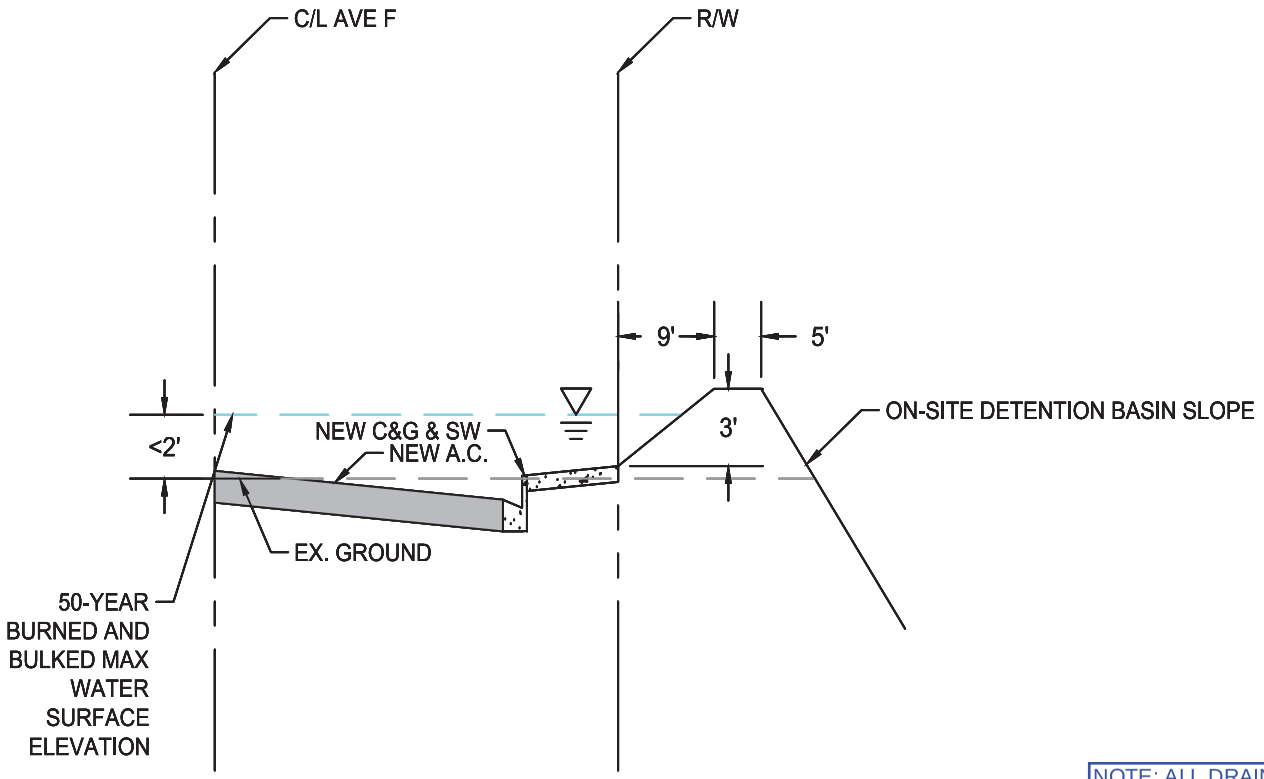
$$Total\ Volume\ to\ Purge = 1{,}794{,}000\ Cu.Ft.$$

$$Drawdown\ Time = 96\ hours$$

$$Required\ Pump\ Rate\ for\ Offsite\ Channel = 5.2\ CFS$$

Appendix XIII: Boundary Cross Sections

ESTU2023000671
RPPL2022013992

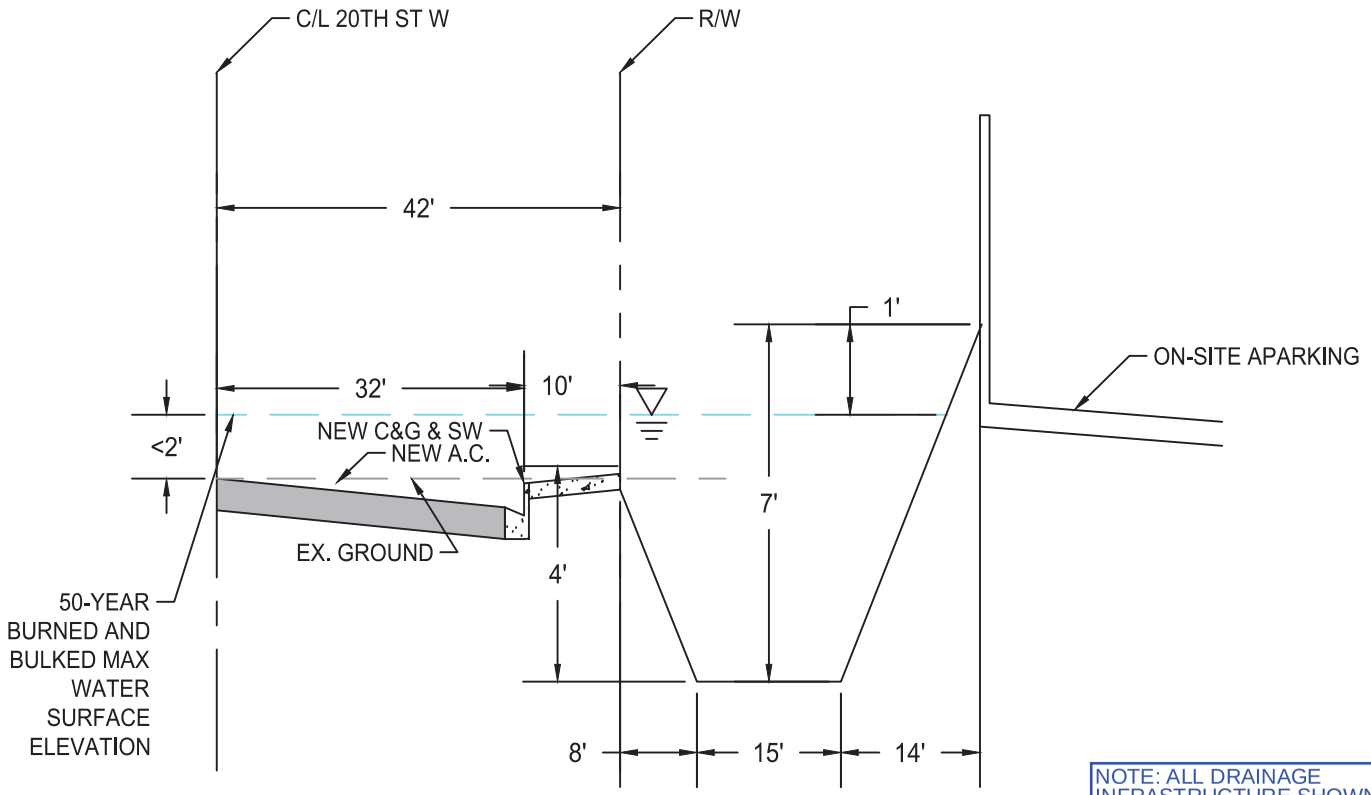


NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

SECTION A-A

5x VERTICAL SCALE

ESTU2023000671
RPPL2022013992

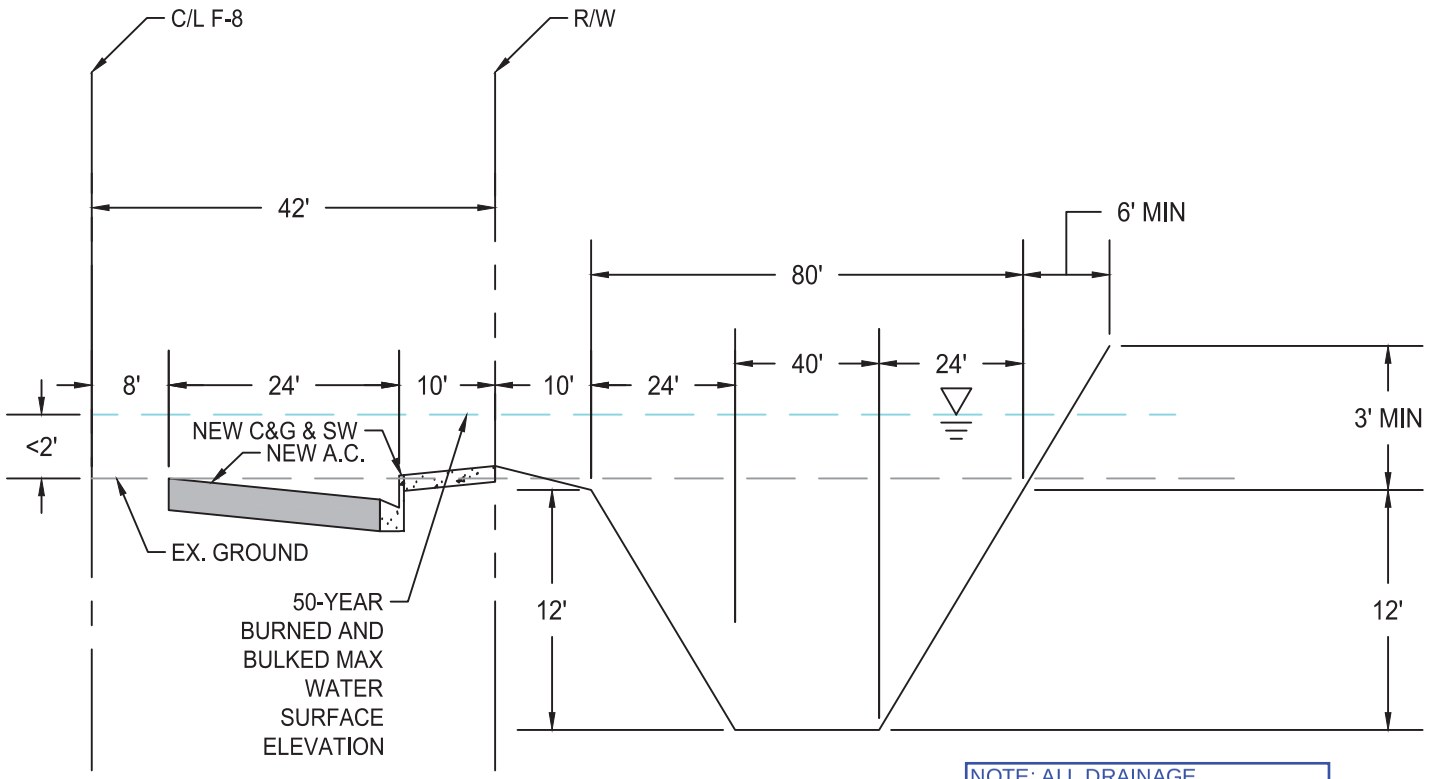


NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

SECTION B-B

5x VERTICAL SCALE

ESTU2023000671
RPPL2022013992

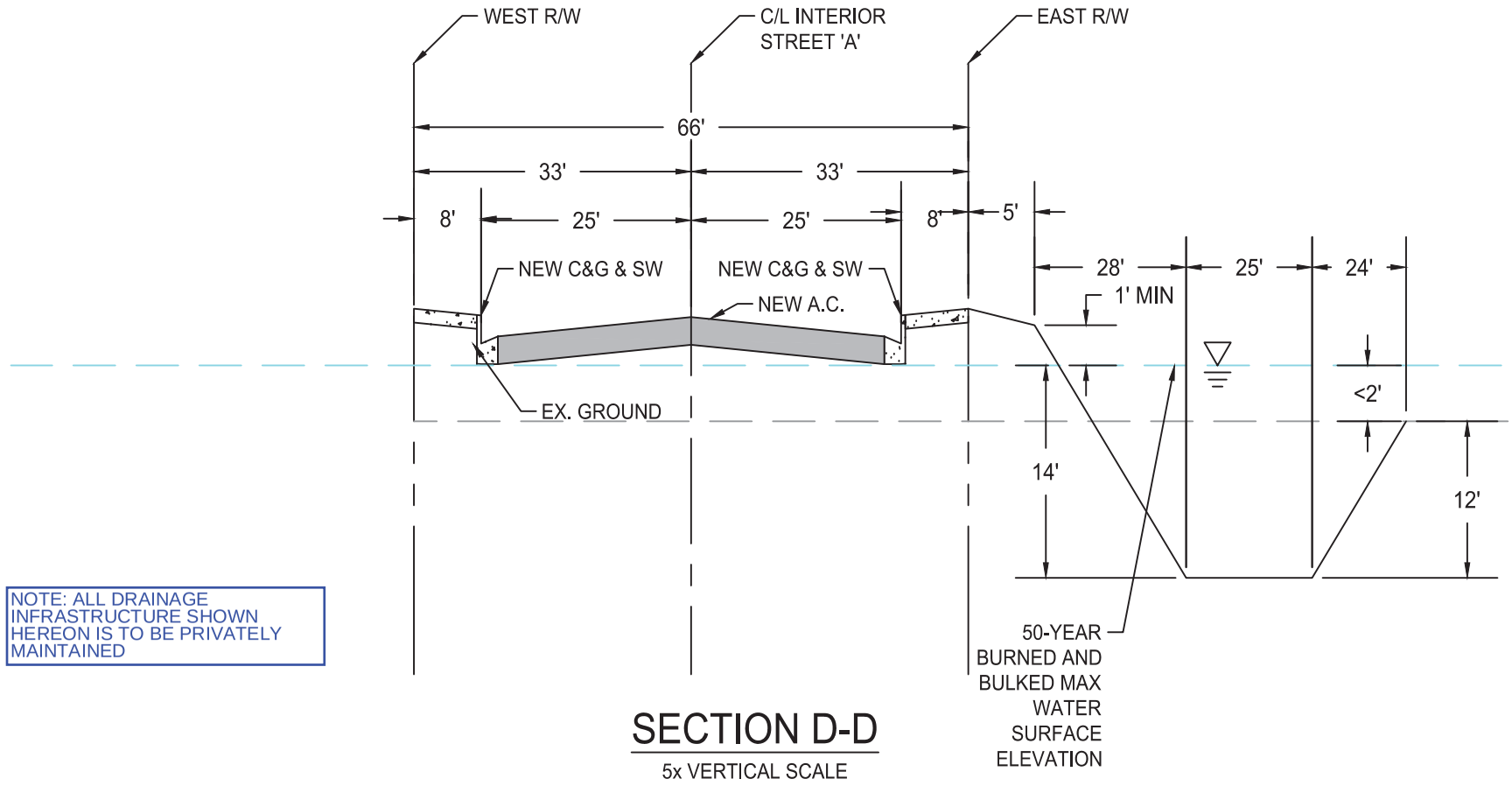


NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

SECTION C-C

5x VERTICAL SCALE

ESTU2023000671
RPPL2022013992

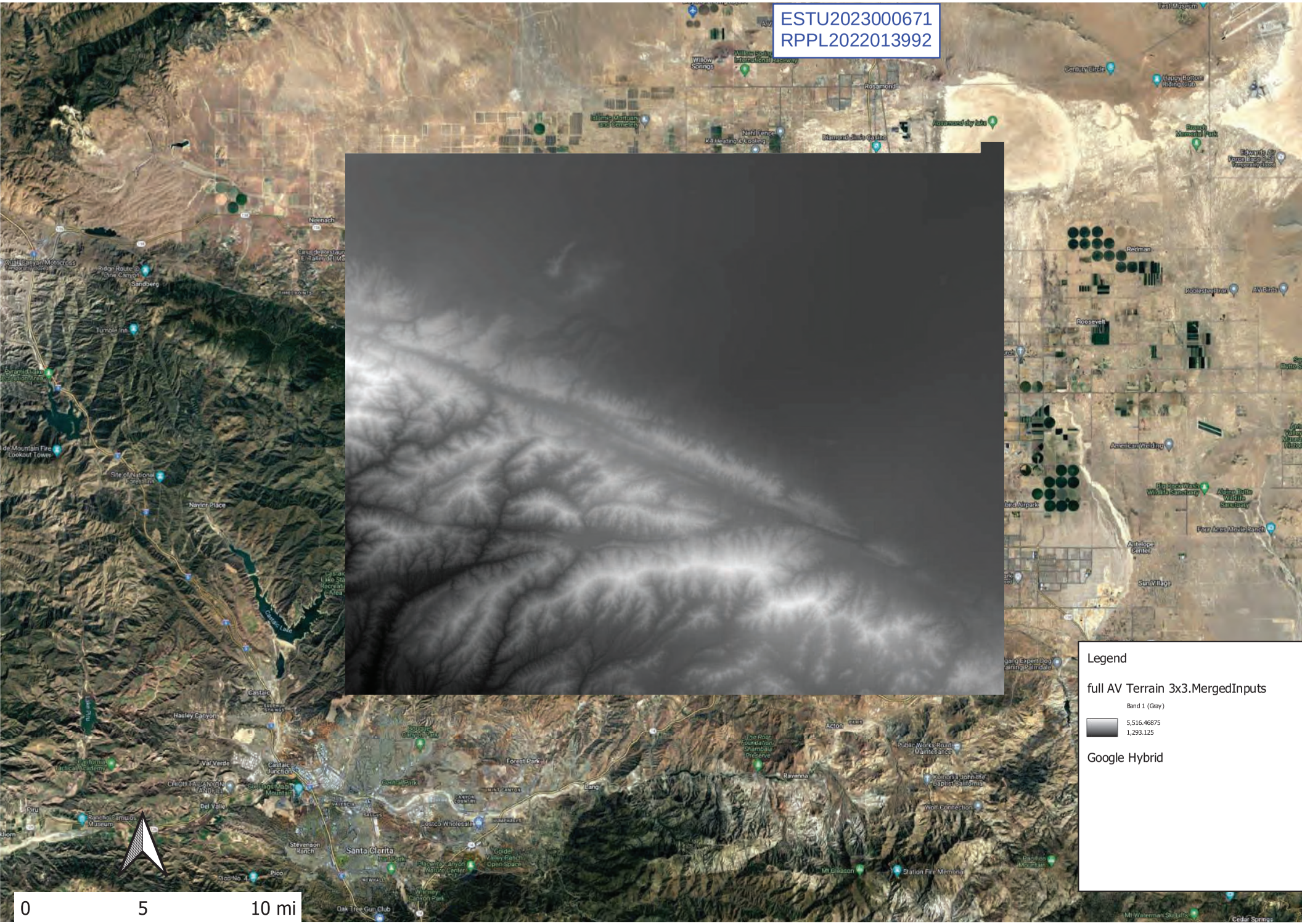


NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED

SECTION D-D

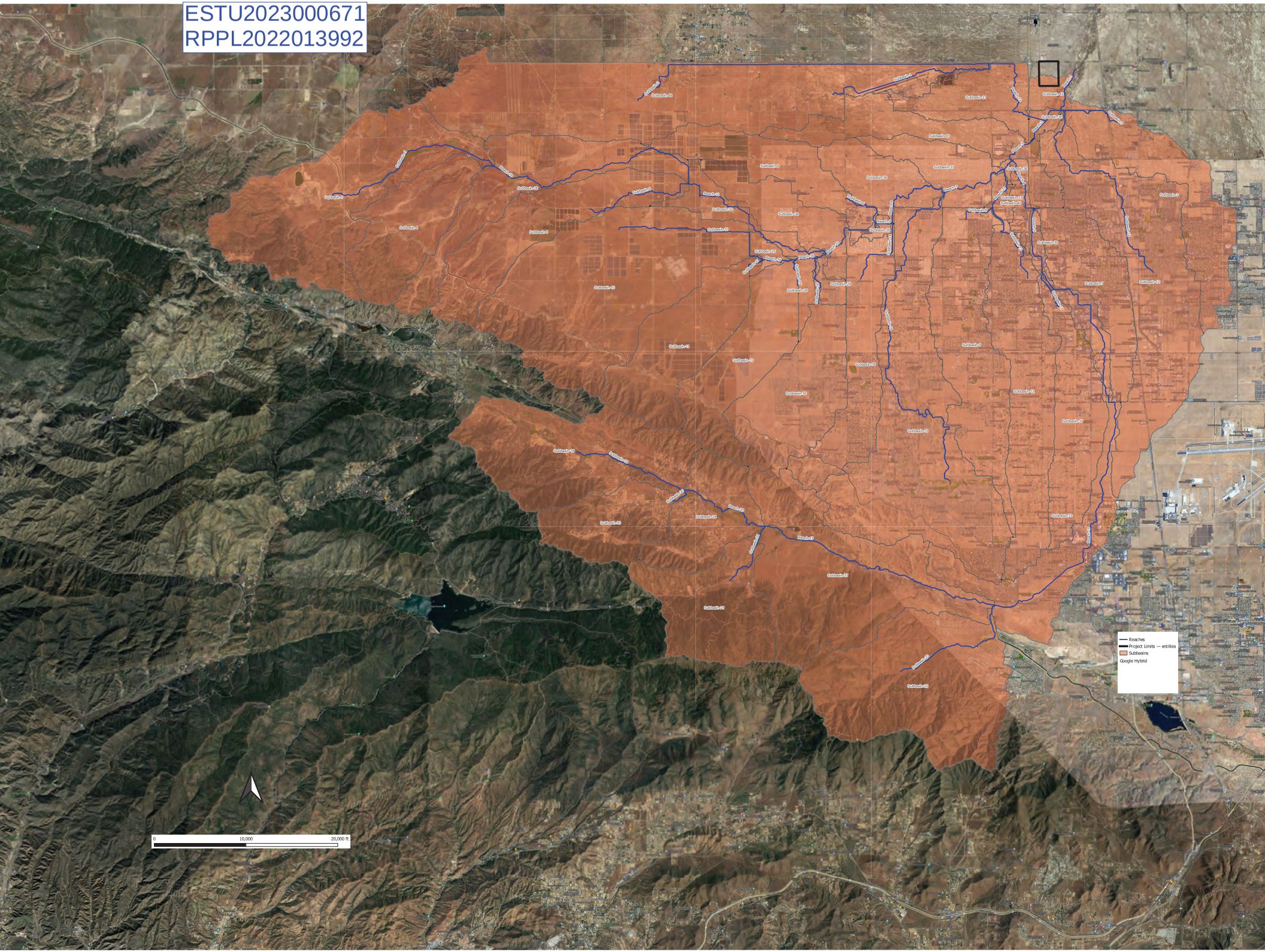
5x VERTICAL SCALE

Appendix XIV: Antelope Valley Terrain Map


ESTU2023000671
RPPL2022013992
Legend
full AV Terrain 3x3.MergedInputs
Band 1 (Gray)
5,516.46875
1,293.125
Google Hybrid
0
5
10 mi

Appendix XV: Amargosa Tributary Map

ESTU2023000671
RPPL2022013992



Appendix XVI: Subbasin Characteristics Table

ESTU2023000671
RPPL2022013992

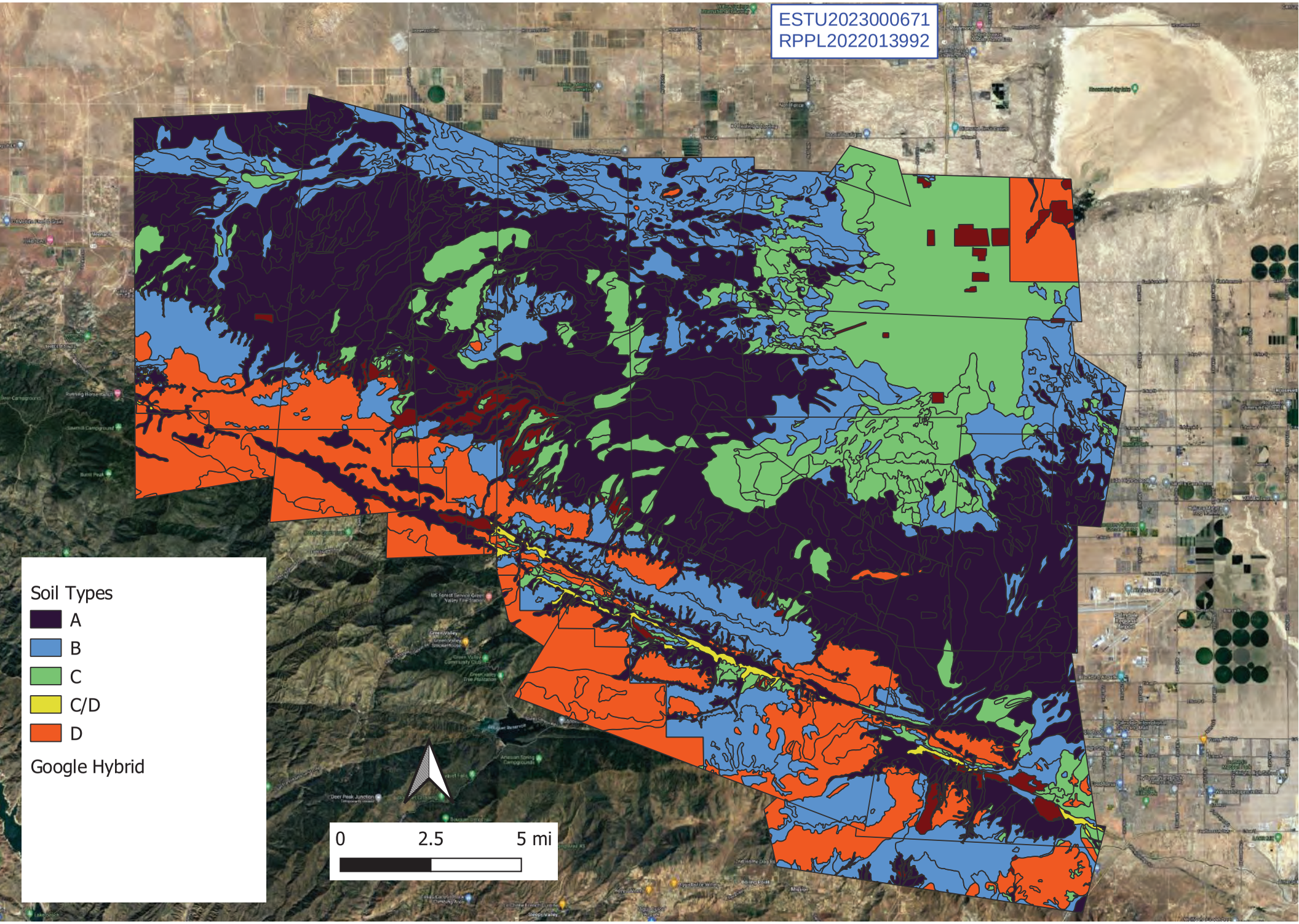
Subbasin	Longest Flowpath Length (MI)	Longest Flowpath Slope (FT/FT)	Centroidal Flowpath Length (MI)	Centroidal Flowpath Slope (FT/FT)	10-85 Flowpath Length (MI)	10-85 Flowpath Slope (FT/FT)	Basin Slope (FT/FT)	Basin Relief (FT)	Relief Ratio	Elongation Ratio	Drainage Density (MI/MI^2)
Subbasin-10	8.445	0.034	4.381	0.006	6.334	0.013	0.118	1596.199	0.036	0.469	0.306
Subbasin-11	5.432	0.054	2.983	0.020	4.074	0.034	0.150	1621.088	0.057	0.471	0.101
Subbasin-15	5.549	0.052	3.059	0.015	4.162	0.038	0.131	1650.194	0.056	0.436	0.147
Subbasin-25	1.406	0.003	0.790	0.002	1.055	0.003	0.008	22.207	0.003	0.489	2.235
Subbasin-16	6.248	0.044	4.348	0.011	4.686	0.023	0.117	1519.168	0.046	0.411	0.227
Subbasin-28	2.329	0.006	1.016	0.003	1.747	0.005	0.007	67.924	0.006	0.332	1.148
Subbasin-5	8.387	0.034	4.250	0.014	6.290	0.027	0.176	1499.227	0.034	0.424	0.429
Subbasin-4	5.377	0.048	2.574	0.015	4.033	0.040	0.186	1350.412	0.048	0.440	0.061
Subbasin-8	7.804	0.029	4.015	0.007	5.853	0.016	0.087	1442.014	0.035	0.333	0.504
Subbasin-26	8.937	0.029	4.610	0.006	6.703	0.016	0.081	1397.946	0.030	0.290	1.008
Subbasin-32	4.836	0.004	2.779	0.003	3.627	0.004	0.010	111.983	0.004	0.278	2.920
Subbasin-29	1.680	0.004	1.028	0.003	1.260	0.003	0.020	37.662	0.004	0.404	0.592
Subbasin-6	6.497	0.004	3.329	0.002	4.873	0.004	0.008	133.095	0.004	0.322	0.351
Subbasin-34	5.923	0.003	3.223	0.002	4.442	0.003	0.009	89.340	0.003	0.316	0.592
Subbasin-14	7.473	0.034	4.112	0.005	5.605	0.017	0.081	1358.215	0.034	0.320	0.391
Subbasin-35	0.877	0.004	0.338	0.005	0.658	0.002	0.011	17.716	0.004	0.511	2.204
Subbasin-19	12.822	0.011	6.961	0.005	9.616	0.007	0.089	1403.871	0.021	0.314	0.737
Subbasin-36	3.906	0.003	2.031	0.002	2.930	0.002	0.010	52.913	0.003	0.439	0.899
Subbasin-13	9.449	0.008	5.364	0.007	7.087	0.009	0.020	462.068	0.009	0.308	0.329
Subbasin-9	8.740	0.008	3.623	0.005	6.555	0.009	0.020	386.047	0.008	0.331	0.121
Subbasin-37	4.162	0.002	1.769	0.001	3.122	0.002	0.009	44.209	0.002	0.404	0.767
Subbasin-23	1.434	0.002	0.713	0.000	1.075	0.001	0.013	12.095	0.002	0.483	2.678
Subbasin-18	6.206	0.033	2.814	0.011	4.655	0.013	0.273	1397.049	0.043	0.502	0.350
Subbasin-20	4.186	0.057	2.150	0.030	3.140	0.038	0.329	1455.245	0.066	0.492	0.143
Subbasin-21	4.421	0.082	2.109	0.020	3.315	0.065	0.309	2145.007	0.092	0.566	0.327
Subbasin-24	3.999	0.063	1.220	0.014	2.999	0.045	0.242	1349.217	0.064	0.536	0.644
Subbasin-22	6.060	0.071	2.816	0.028	4.545	0.049	0.334	2442.392	0.076	0.586	0.319
Subbasin-27	7.898	0.056	3.776	0.008	5.924	0.034	0.253	2327.953	0.056	0.445	0.604
Subbasin-33	12.413	0.014	7.022	0.008	9.310	0.009	0.076	903.888	0.014	0.211	1.901
Subbasin-17	6.751	0.010	3.616	0.009	5.063	0.011	0.024	355.010	0.010	0.345	0.228
Subbasin-7	5.987	0.007	2.924	0.005	4.490	0.007	0.017	219.531	0.007	0.362	0.040
Subbasin-39	1.830	0.005	0.821	0.003	1.372	0.005	0.036	59.770	0.006	0.359	4.482
Subbasin-40	2.596	0.002	1.207	0.001	1.947	0.002	0.020	52.650	0.004	0.345	2.159
Subbasin-38	0.673	0.001	0.247	0.001	0.505	0.000	0.008	4.256	0.001	0.440	3.896
Subbasin-41	7.706	0.002	2.833	0.002	5.780	0.002	0.011	100.271	0.002	0.284	0.231
Subbasin-12	12.000	0.005	6.233	0.003	9.000	0.005	0.017	332.075	0.005	0.293	0.561
Subbasin-3	8.310	0.004	4.424	0.002	6.232	0.003	0.016	155.176	0.004	0.299	0.302
Subbasin-42	1.159	0.002	0.534	0.000	0.869	0.002	0.021	32.052	0.005	0.552	2.839
Subbasin-30	0.260	0.001	0.121	0.001	0.195	0.000	0.004	2.234	0.002	0.430	4.519
Subbasin-44	13.529	0.009	7.313	0.003	10.147	0.005	0.021	741.167	0.010	0.308	0.894
Subbasin-31	4.805	0.002	2.180	0.002	3.604	0.001	0.010	43.926	0.002	0.374	1.166
Subbasin-43	2.076	0.001	0.912	0.001	1.557	0.001	0.011	34.468	0.003	0.448	1.571

Appendix XVII: Reach Characteristics Table

ESTU2023000671
RPPL2022013992

Reach	Length (MI)	Slope (FT/FT)	Relief (FT)	Sinuosity
Reach-19	0.837	0.002	7.034	1.227
Reach-16	0.542	0.001	2.596	1.214
Reach-15	0.221	0.004	4.348	1.109
Reach-18	5.318	0.006	155.531	1.317
Reach-12	4.140	0.003	74.815	1.298
Reach-10	1.632	0.001	9.945	1.352
Reach-9	0.355	0.004	7.193	1.069
Reach-8	2.083	0.001	13.026	1.682
Reach-7	1.710	0.001	10.226	1.302
Reach-21	1.017	0.001	7.581	1.239
Reach-6	0.275	0.001	1.104	1.053
Reach-20	2.331	0.008	94.278	1.282
Reach-17	5.876	0.009	271.615	1.171
Reach-11	10.262	0.008	417.570	1.476
Reach-5	1.524	0.004	34.203	1.165
Reach-4	1.363	0.001	8.677	1.236
Reach-3	0.872	0.002	10.060	1.329
Reach-2	0.918	0.001	5.140	1.161
Reach-14	0.051	0.002	0.665	1.062
Reach-1	1.059	0.001	2.871	1.182
Reach-13	2.967	0.001	17.372	1.649

Appendix XVIII: USGS Soils Type Map

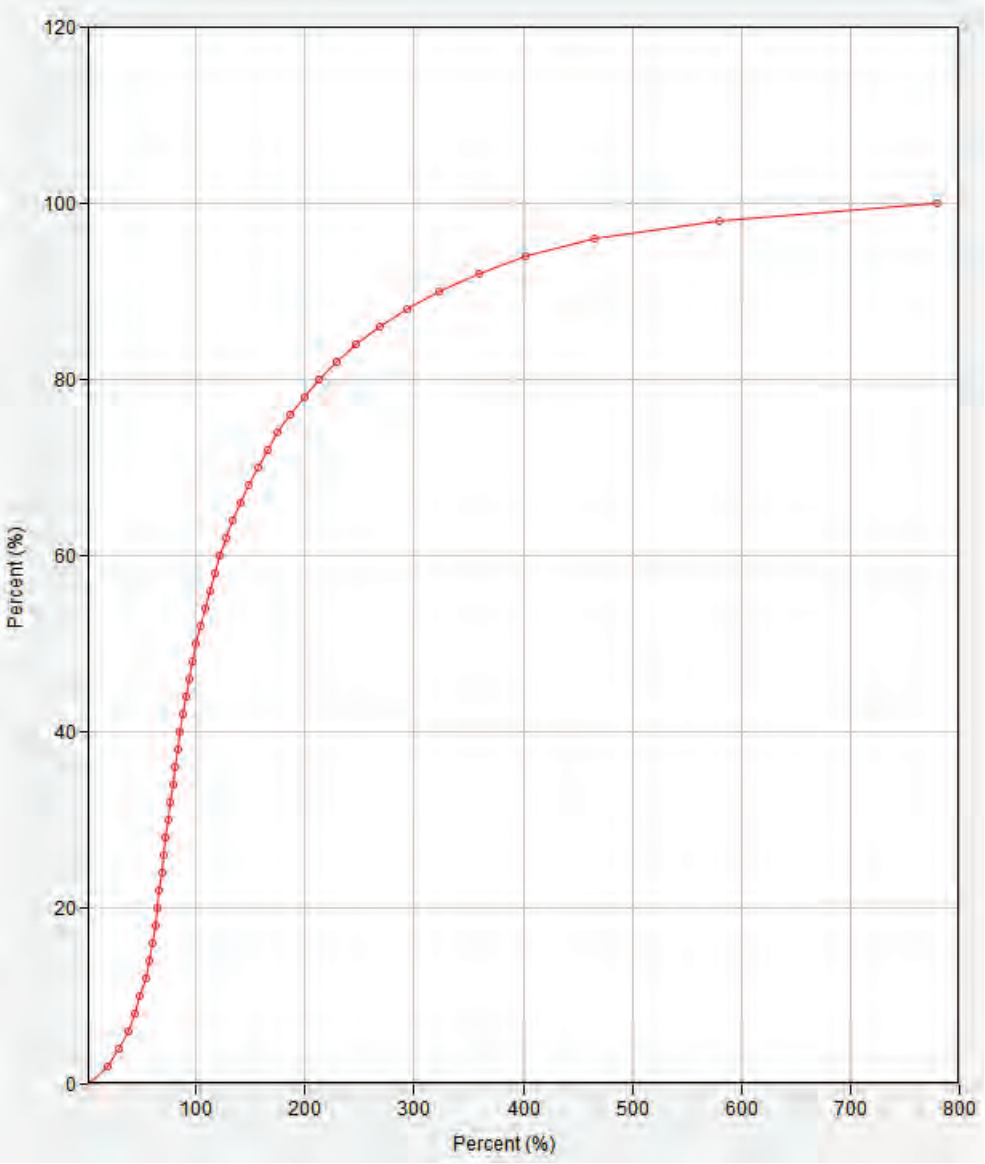

ESTU2023000671
RPPL2022013992
Soil Types
A
B
C
C/D
D
Google Hybrid
0
2.5
5 mi

Appendix XIX: Army Corps of Engineers Soils Loss Table



Soil Group	Description	Range of Loss Rates (in/hr)
A	Deep sand, deep loess, aggregated silts	0.30-0.45
B	Shallow loess, sandy loam	0.15-0.30
C	Clay loams, shallow sandy loam, soils low in organic content, and soils usually high in clay	0.05-0.15
D	Soils that swell significantly when wet, heavy plastic clays, and certain saline soils	0.00-0.05

Appendix XX: Desert S-Graph


120
100
80
60
40
20
0
Percent (%)
100
200
300
400
500
600
700
800
Percent (%)

Appendix XXI: Lag Time Equation

Snyder Lag Time Estimation

$$t_p = 24\bar{n}\left(\frac{LL_c}{\sqrt{S}}\right)^{0.38}$$

Where:

t_p = Lag Time [hrs]

$\bar{n}$ = Average Roughness of Subbasin [−]

L = Longest Flowpath Length [mi]

L_c = Centroidal Flowpath Length [mi]

S = Slope of Longest Flowpath $[\frac{\text{ft}}{\text{mi}}]$

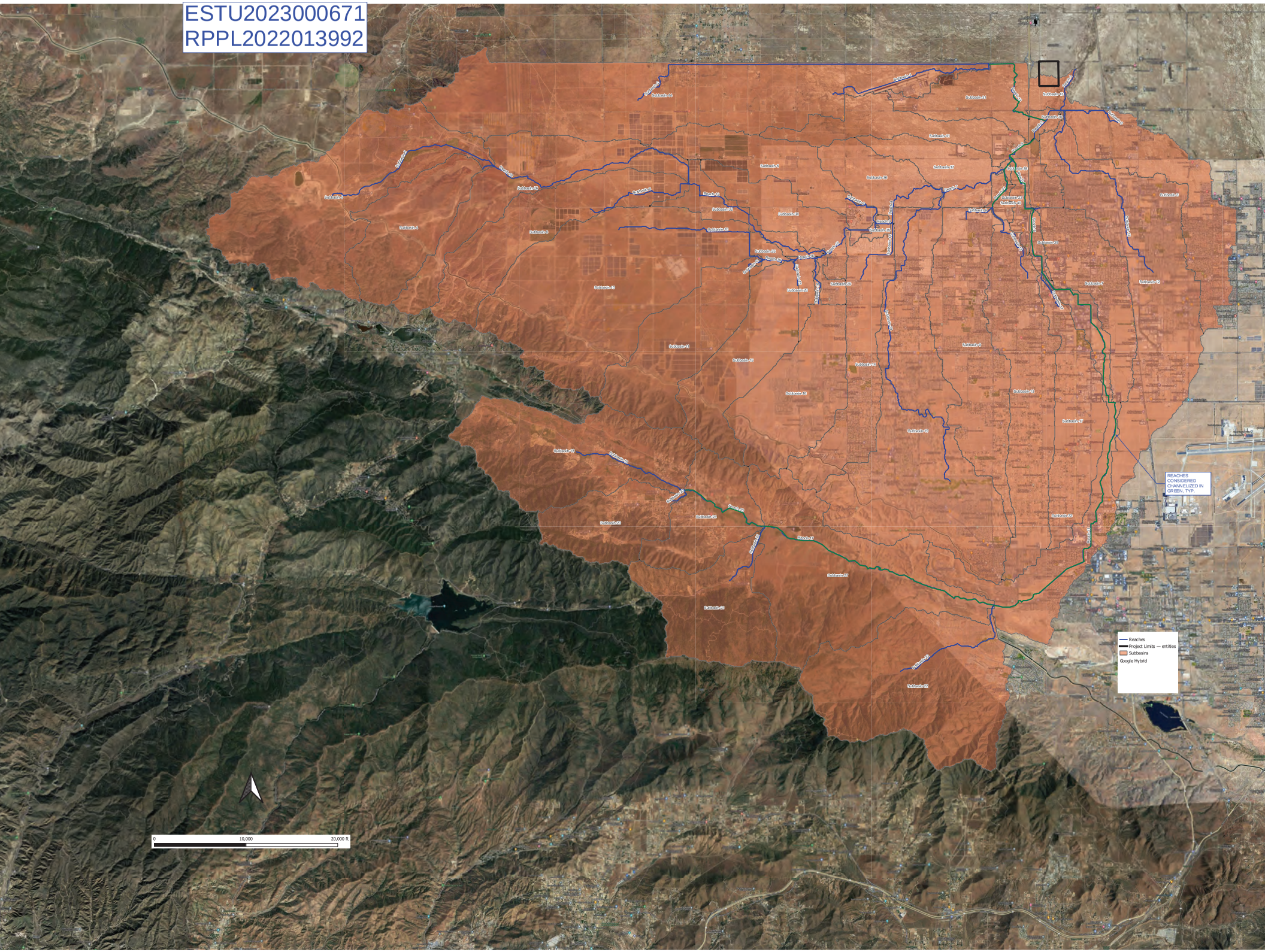
Appendix XXII: HEC-HMS Transform Table (Lag Time)

ESTU2023000671
RPPL2022013992

Subbasin	n_bar	L [mi]	L_c [mi]	S [ft/mi]	Lag Time (hr)
Subbasin-10	0.105	8.44	4.38	180	3.7065
Subbasin-11	0.0942	5.43	2.98	288	2.22312
Subbasin-15	0.0929	5.55	3.06	272	2.25747
Subbasin-25	0.0618	1.41	0.79	15.7	0.91464
Subbasin-16	0.119	6.25	4.35	231	3.5581
Subbasin-28	0.0621	2.33	1.02	29.2	1.08675
Subbasin-5	0.122	8.39	4.25	178	4.2578
Subbasin-4	0.14	5.38	2.57	251	3.192
Subbasin-8	0.0909	7.8	4.02	152	3.10878
Subbasin-26	0.0916	8.94	4.61	153	3.47164
Subbasin-32	0.0649	4.84	2.78	23.2	2.30395
Subbasin-29	0.112	1.68	1.03	22.5	1.8256
Subbasin-6	0.0599	6.5	3.33	20.4	2.60565
Subbasin-34	0.0883	5.92	3.22	15	3.8852
Subbasin-14	0.107	7.47	4.11	182	3.5096
Subbasin-35	0.121	0.877	0.338	20.2	1.03455
Subbasin-19	0.114	12.8	6.96	56.5	7.011
Subbasin-36	0.124	3.91	2.03	13.5	3.9928
Subbasin-13	0.119	9.45	5.36	44.5	6.1761
Subbasin-9	0.125	8.74	3.62	44	5.4375
Subbasin-37	0.142	4.16	1.77	10.6	4.6434
Subbasin-23	0.134	1.43	0.713	8.56	2.1574
Subbasin-18	0.142	6.21	2.81	172	3.8056
Subbasin-20	0.143	4.19	2.15	304	2.6741
Subbasin-21	0.15	4.42	2.11	432	2.655
Subbasin-24	0.127	4	1.22	331	1.8542
Subbasin-22	0.101	6.06	2.82	375	2.3129
Subbasin-27	0.109	7.9	3.78	293	3.2264
Subbasin-33	0.14	12.4	7.02	72.1	8.134
Subbasin-17	0.123	6.75	3.62	52.6	4.6863
Subbasin-7	0.137	5.99	2.92	36.4	4.932
Subbasin-39	0.142	1.83	0.821	27.2	2.13
Subbasin-40	0.139	2.6	1.21	12.4	3.1831
Subbasin-38	0.129	0.673	0.247	3.73	1.21905
Subbasin-41	0.124	7.71	2.83	13	5.9024
Subbasin-12	0.141	12	6.23	27.6	9.2778
Subbasin-3	0.143	8.31	4.42	18.5	7.7506
Subbasin-42	0.137	1.16	0.534	9.93	1.7673
Subbasin-30	0.152	0.26	0.121	6.59	0.68704
Subbasin-44	0.0824	13.5	7.31	49.1	5.40544
Subbasin-31	0.139	4.81	2.18	9.14	5.3515
Subbasin-43	0.146	2.08	0.912	6.73	3.1098

Appendix XXIII: Routing Map

ESTU2023000671
RPPL2022013992



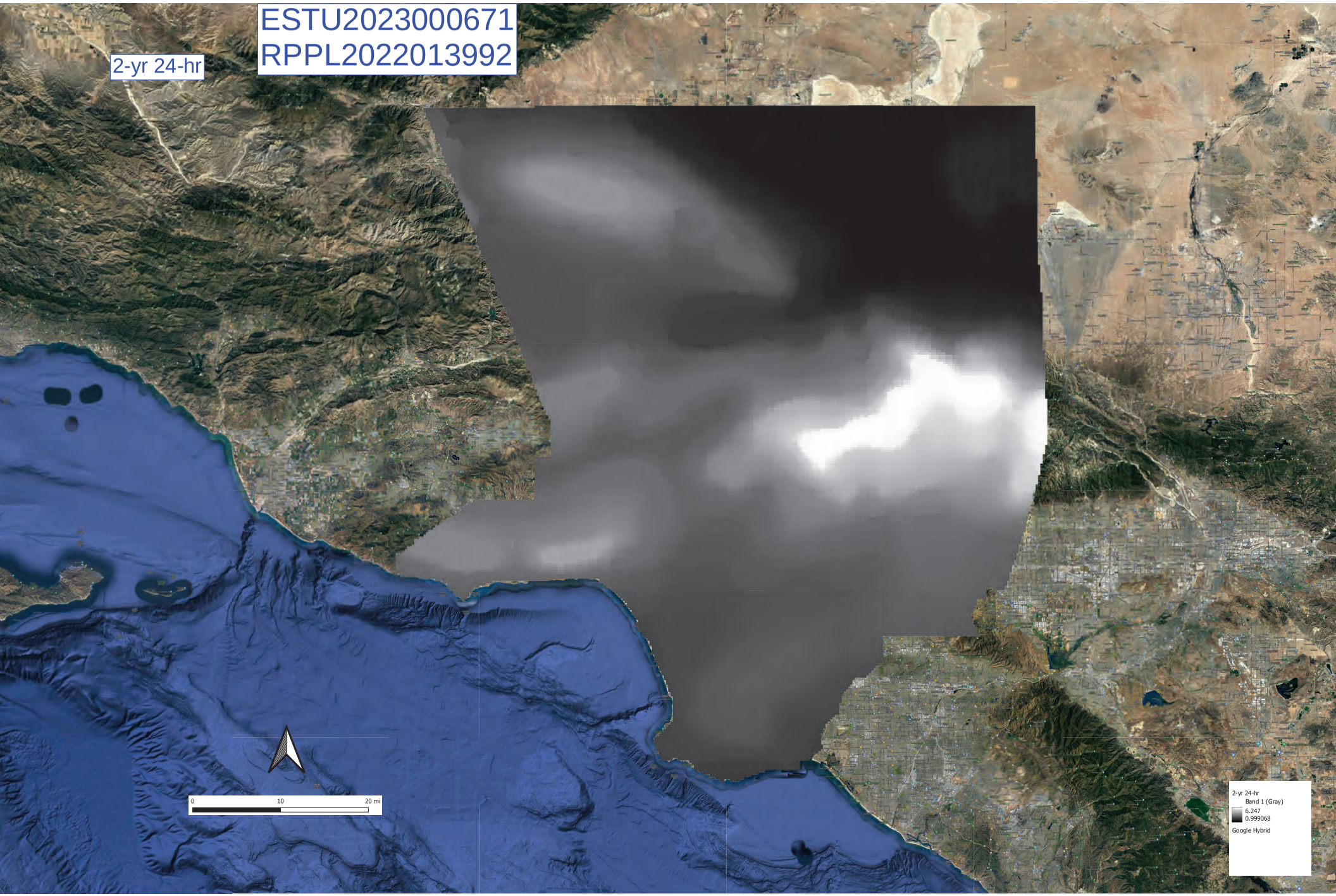
Appendix XXIV: Routing Table

ESTU2023000671
RPPL2022013992

Reach	Length (FT)	Slope (FT/FT)	Manning's n	Index Celerity (FT/S)	Shape	Diameter (FT)	Width (FT)	Side Slope (xH:1V)	Left Manning's n	Right Manning's n	Cross Section
Reach-19	4417.776	0.00159	0.1		Trapezoid		500	1000			
Reach-16	2864.1888	0.00091	0.1		Trapezoid		500	1000			
Reach-15	1165.6656	0.00373	0.1		Trapezoid		500	1000			
Reach-18	28081.4688	0.00554	0.1		Trapezoid		500	1000			
Reach-12	21856.6128	0.00342	0.1		Trapezoid		500	1000			
Reach-10	8614.848	0.00115	0.1		Trapezoid		500	1000			
Reach-9	1874.2416	0.00384	0.1		Trapezoid		500	1000			
Reach-8	10996.1808	0.00118	0.1		Trapezoid		500	1000			
Reach-7	9030.4896	0.00113	0.1		Trapezoid		500	1000			
Reach-21	5369.8656	0.00141	0.1		Trapezoid		500	1000			
Reach-6	1452.1056	0.00076	0.03		Eight Point				0.03	0.03	Reach 6
Reach-20	12305.3568	0.00766	0.04		Eight Point				0.04	0.04	Reach 20
Reach-17	31023.4848	0.00876	0.04		Eight Point				0.04	0.04	Reach 17
Reach-11	54180.984	0.00771	0.04		Eight Point				0.04	0.04	Reach 11
Reach-5	8047.0368	0.00425	0.03		Eight Point				0.03	0.03	Reach 5
Reach-4	7195.584	0.00121	0.03		Eight Point				0.03	0.03	Reach 5
Reach-3	4604.16	0.00219	0.03		Eight Point				0.03	0.03	Reach 3
Reach-2	4845.5616	0.00106	0.1		Trapezoid		500	1000			
Reach-14	270.7056	0.00245	0.1		Trapezoid		500	1000			
Reach-1	5590.5696	0.00051	0.1		Trapezoid		500	1000			
Reach-13	15666.024	0.00111	0.1		Trapezoid		500	1000			

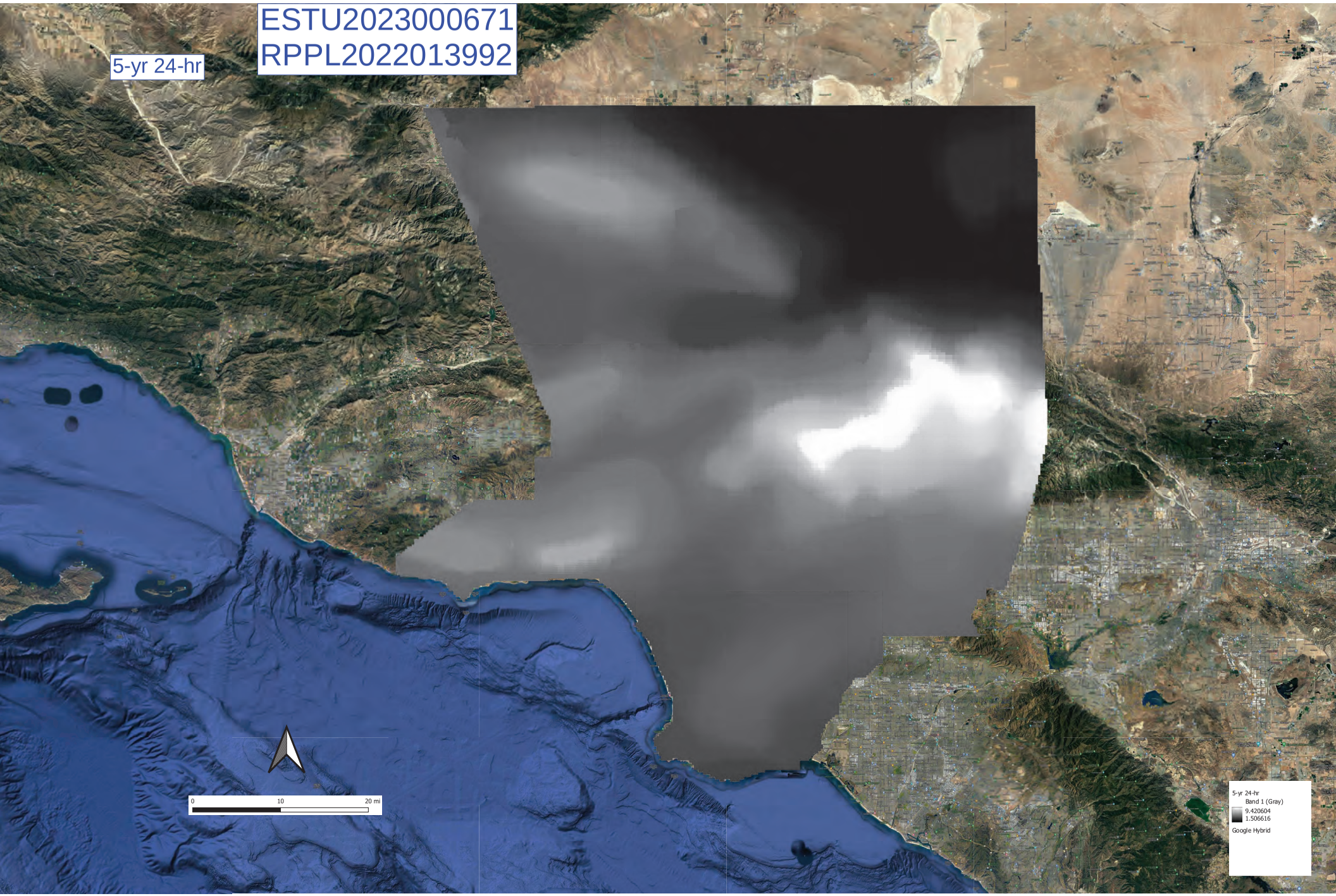
Appendix XXV: LA County Rainfall Maps

ESTU2023000671
RPPL2022013992

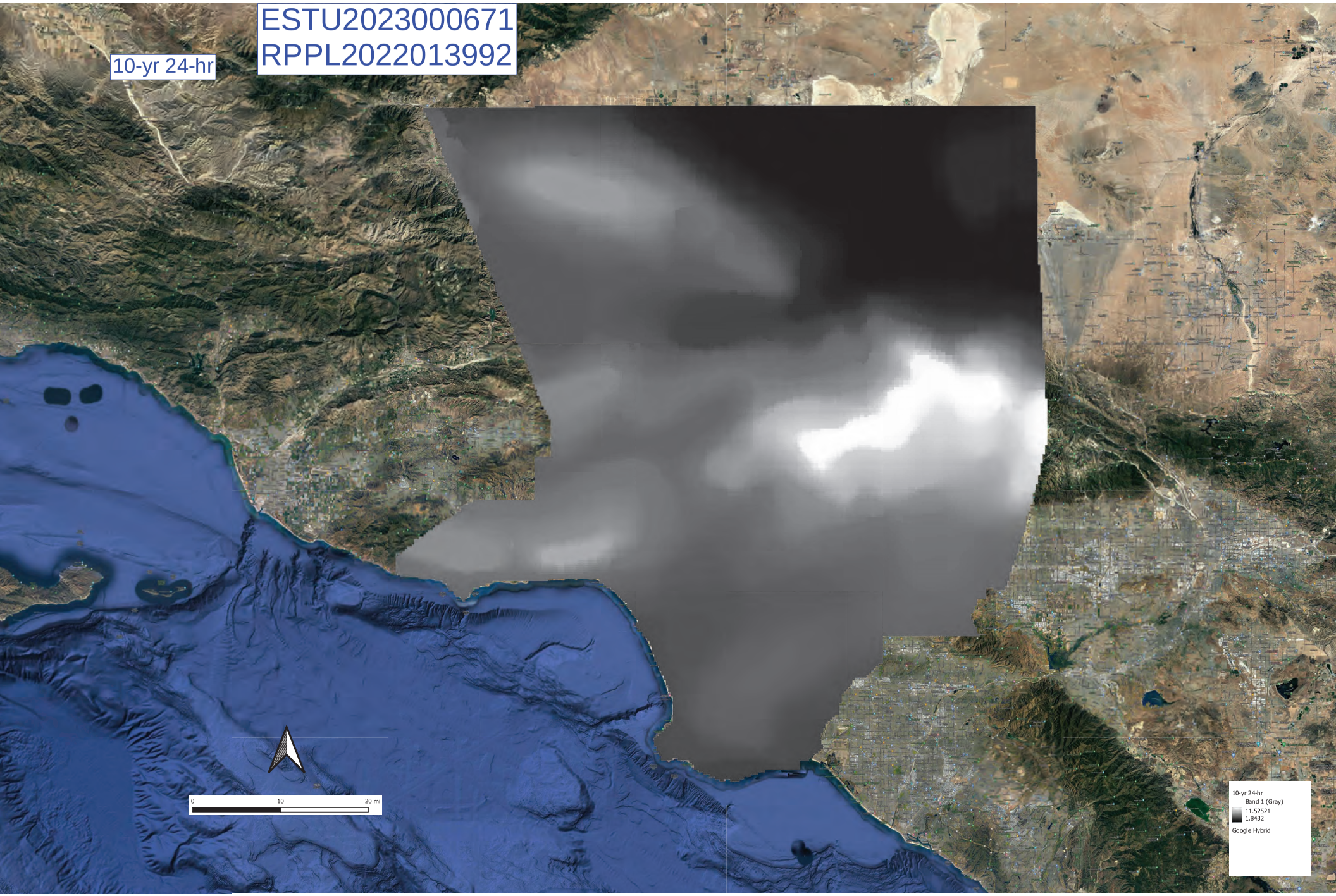


ESTU2023000671
RPPL2022013992

5-yr 24-hr

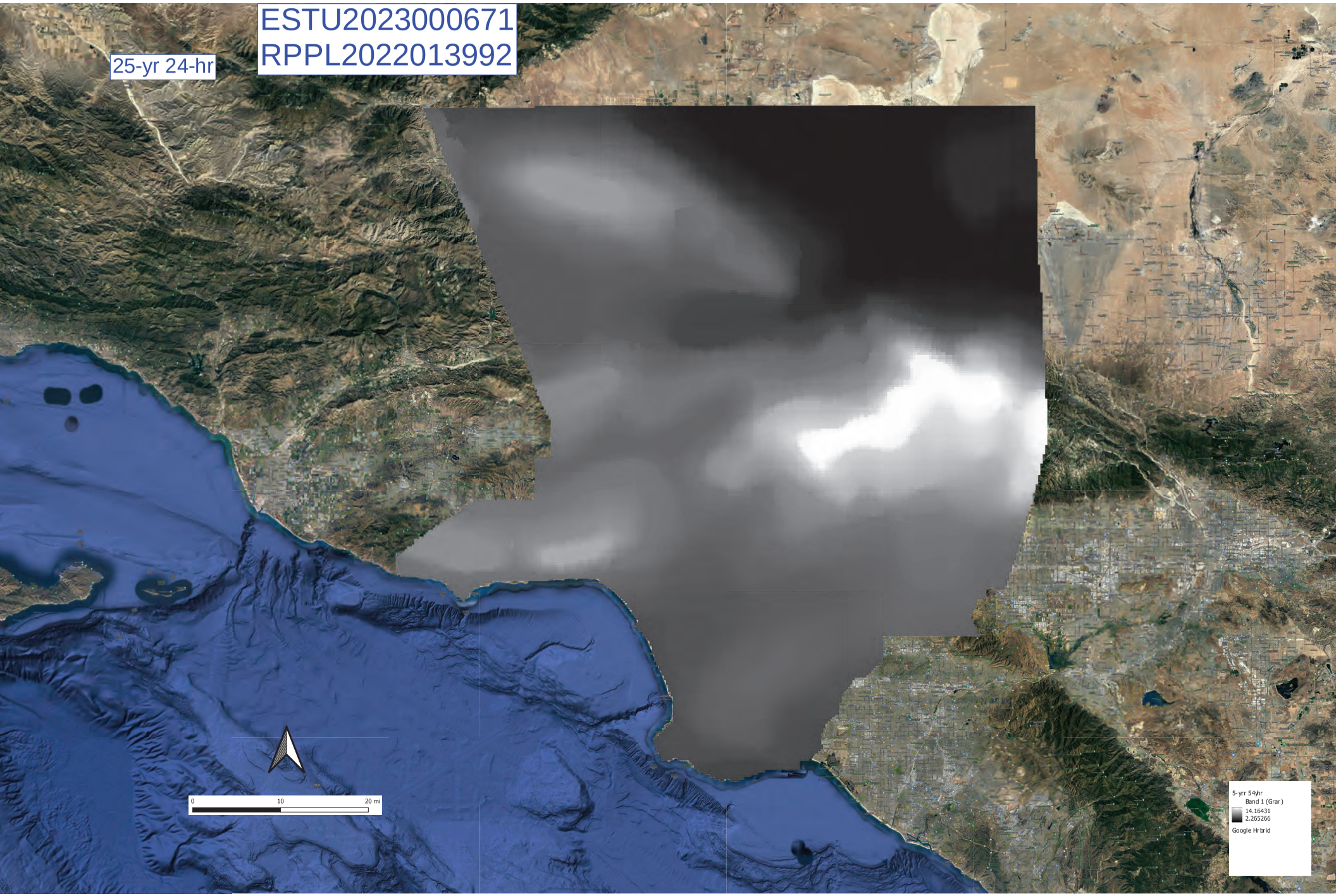


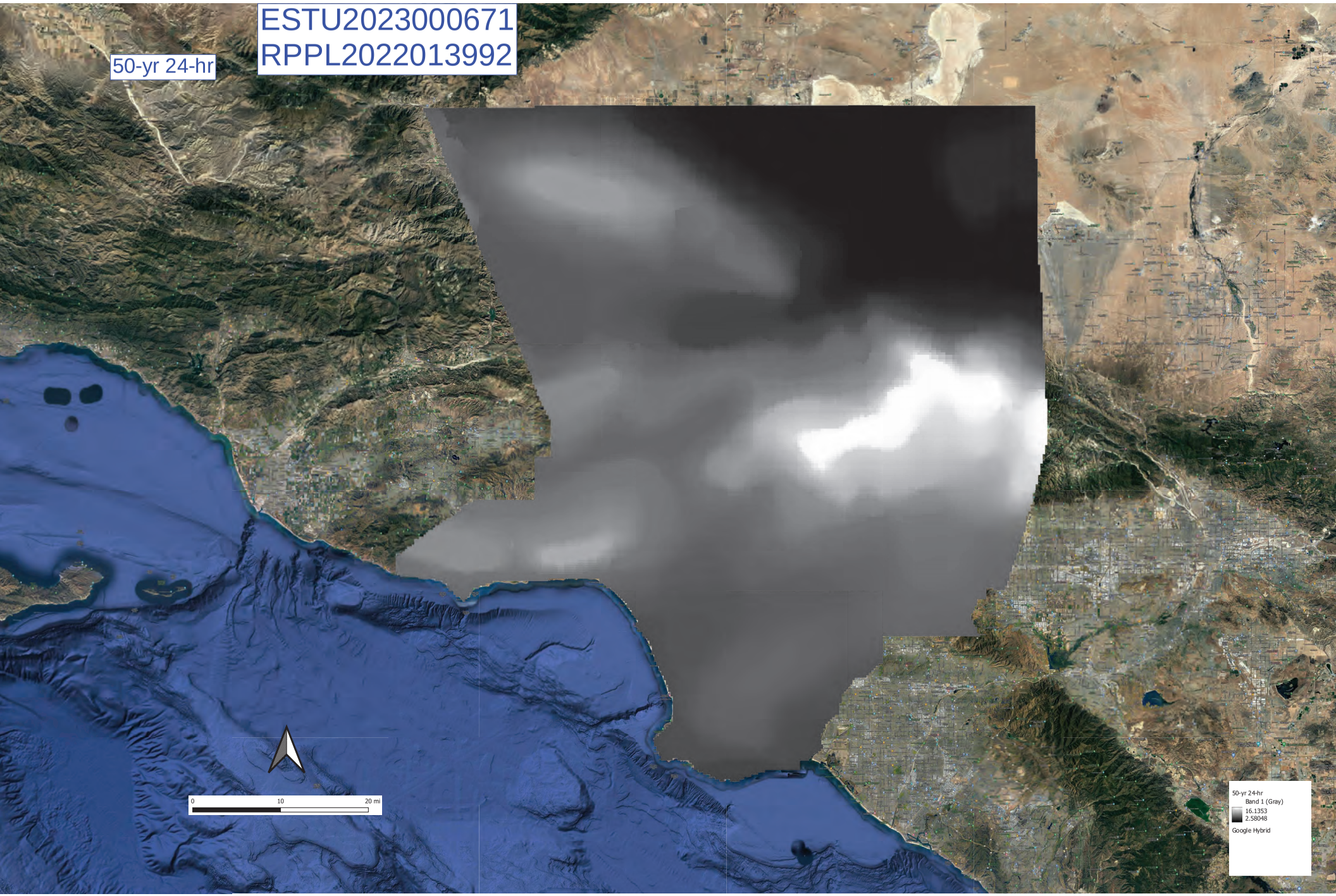
ESTU2023000671
RPPL2022013992



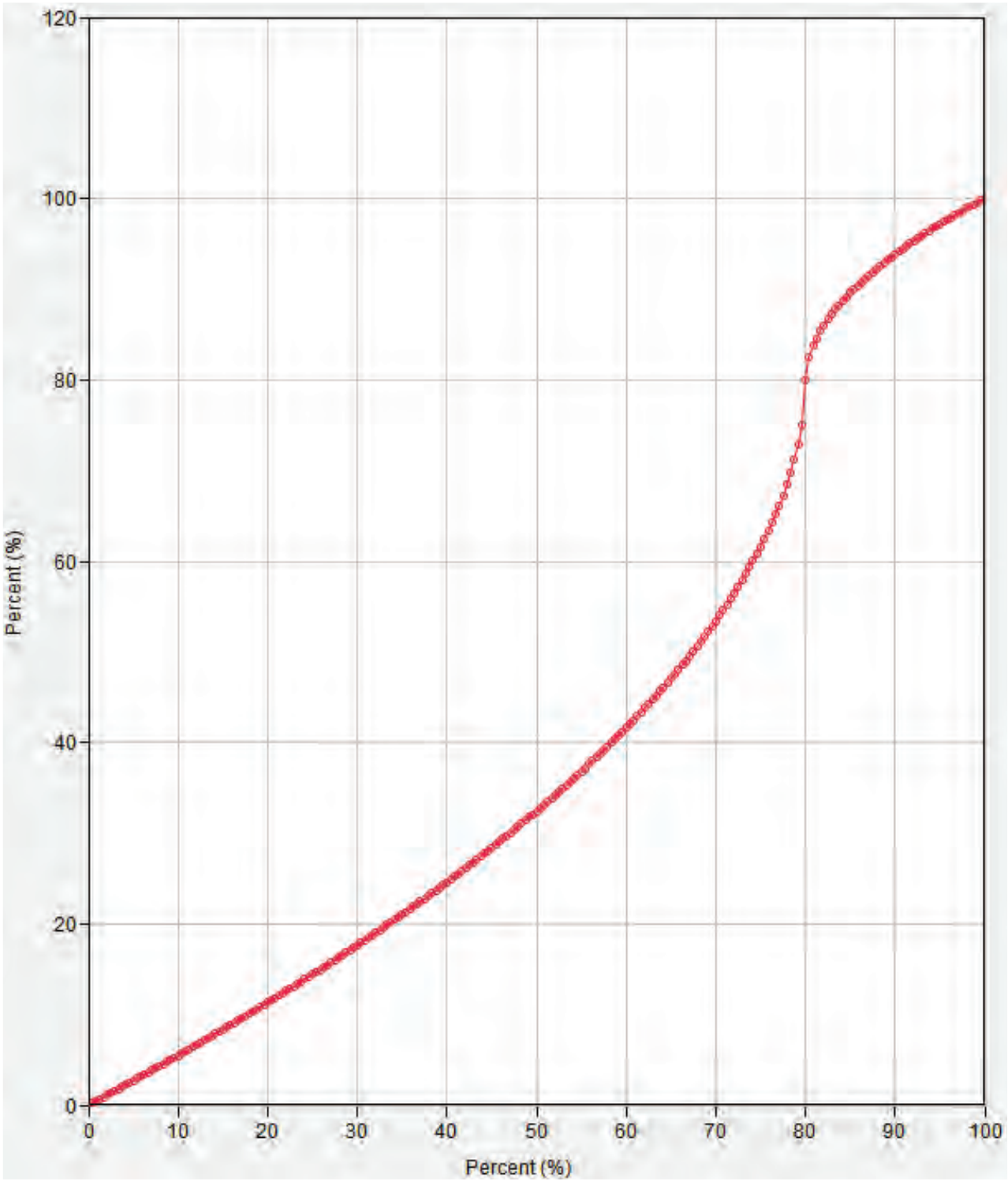
ESTU2023000671
RPPL2022013992

25-yr 24-hr



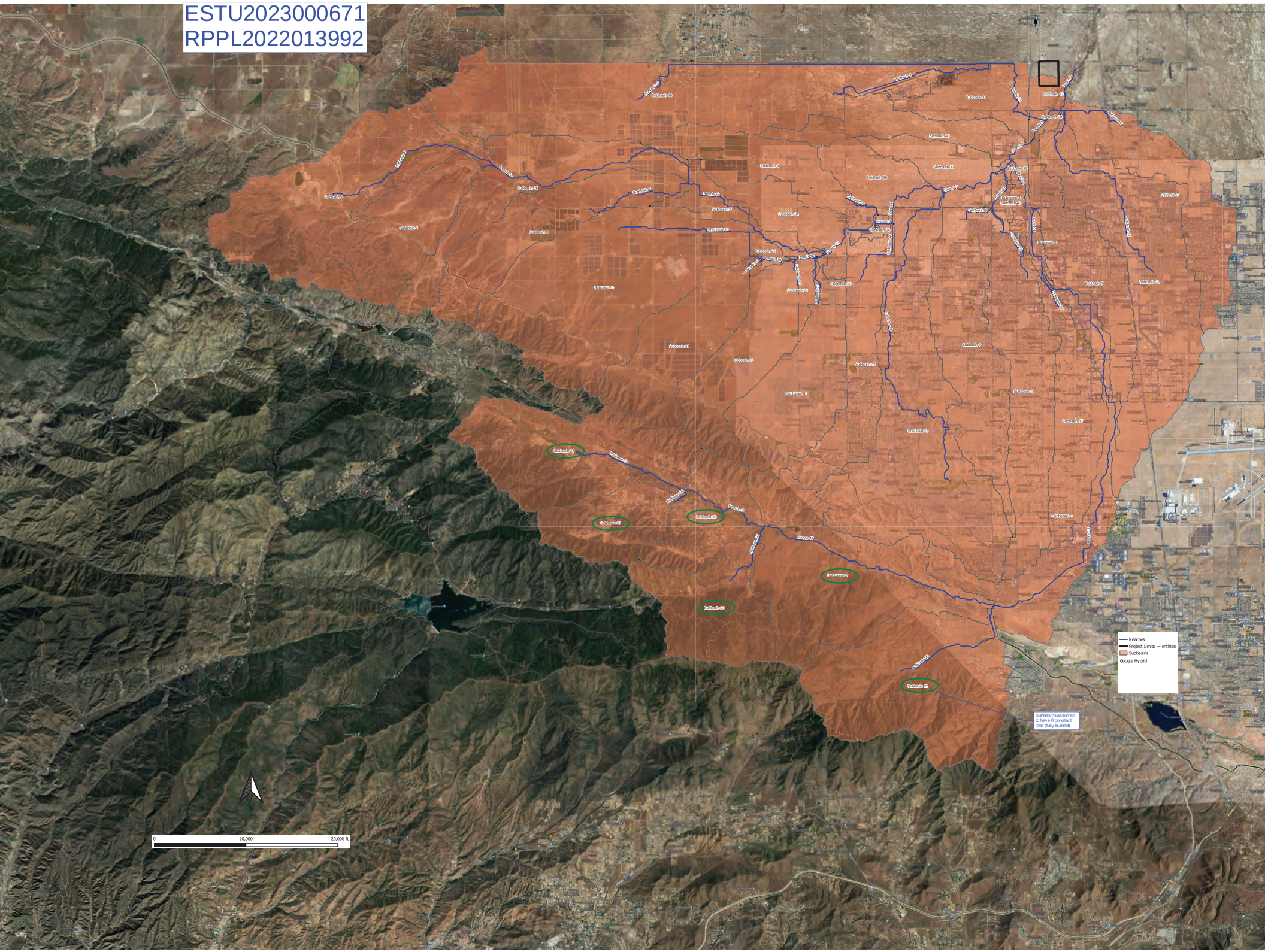

ESTU2023000671
RPPL2022013992
50-yr 24-hr
0
10
20 mi
50-yr 24-hr
Band 1 (Gray)
16.1353
2.58048
Google Hybrid

Appendix XXVI: LA County Unit Hyetograph


120
100
80
60
40
20
0
Percent (%)
0
10
20
30
40
50
60
70
80
90
100
Percent (%)

Appendix XXVII: Burned Subbasin Map

ESTU2023000671
RPPL2022013992

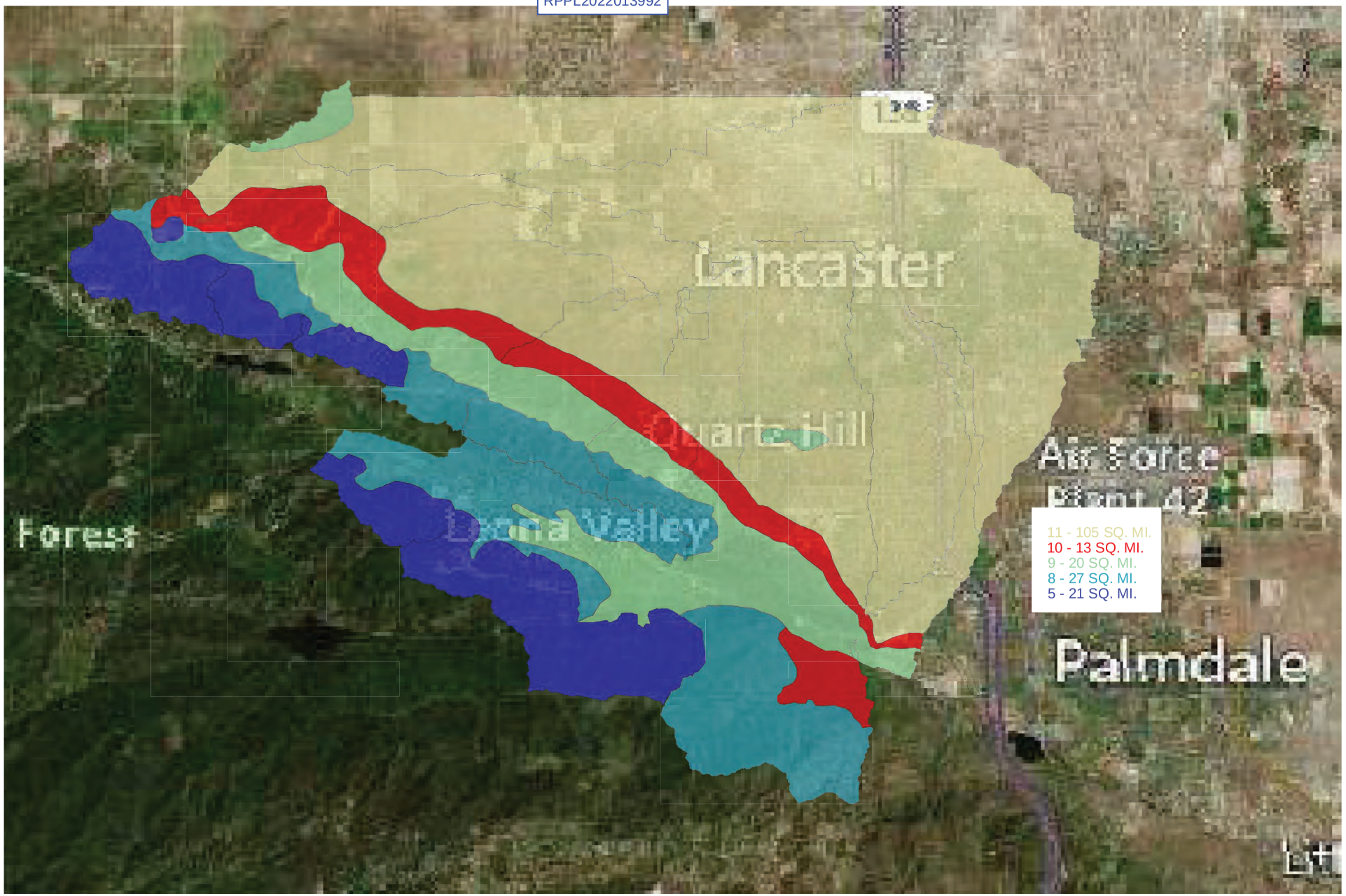


Appendix XXVIII: Burned Subbasin Characteristics Table

Subbasin	Initial Loss (IN)	Constant Rate (IN/HR)	Impervious (%)
Subbasin-10	0	0.195	1.13
Subbasin-11	0	0.198	1.2
Subbasin-15	0	0.212	1.01
Subbasin-25	0	0.05	0.283
Subbasin-16	0	0.253	16.4
Subbasin-28	0	0.127	0.223
Subbasin-5	0	0.139	0.137
Subbasin-4	0	0.121	0.0594
Subbasin-8	0	0.195	0.363
Subbasin-26	0	0.199	0.548
Subbasin-32	0	0.215	1.2
Subbasin-29	0	0.239	30.3
Subbasin-6	0	0.251	4.04
Subbasin-34	0	0.191	6.89
Subbasin-14	0	0.215	20.4
Subbasin-35	0	0.0805	25.1
Subbasin-19	0	0.216	24.1
Subbasin-36	0	0.173	0.72
Subbasin-13	0	0.208	28.4
Subbasin-9	0	0.197	24.1
Subbasin-37	0	0.113	4.38
Subbasin-23	0	0.05	14.7
Subbasin-18	0	0	0.189
Subbasin-20	0	0	0.461
Subbasin-21	0	0	0.207
Subbasin-24	0	0	1.8
Subbasin-22	0	0	1.56
Subbasin-27	0	0	1.29
Subbasin-33	0	0.221	30.4
Subbasin-17	0	0.271	21.3
Subbasin-7	0	0.217	42.5
Subbasin-39	0	0.0733	46.6
Subbasin-40	0	0.0432	36.5
Subbasin-38	0	0.0452	7.58
Subbasin-41	0	0.126	14.2
Subbasin-12	0	0.214	35.7
Subbasin-3	0	0.172	26.2
Subbasin-42	0	0.05	9.85
Subbasin-30	0	0.05	0.258
Subbasin-44	0	0.201	1.03
Subbasin-31	0	0.0498	4.69
Subbasin-43	0	0.05	2.18

Appendix XXIX: LA County DPA Map

ESTU2023000671
RPPL2022013992

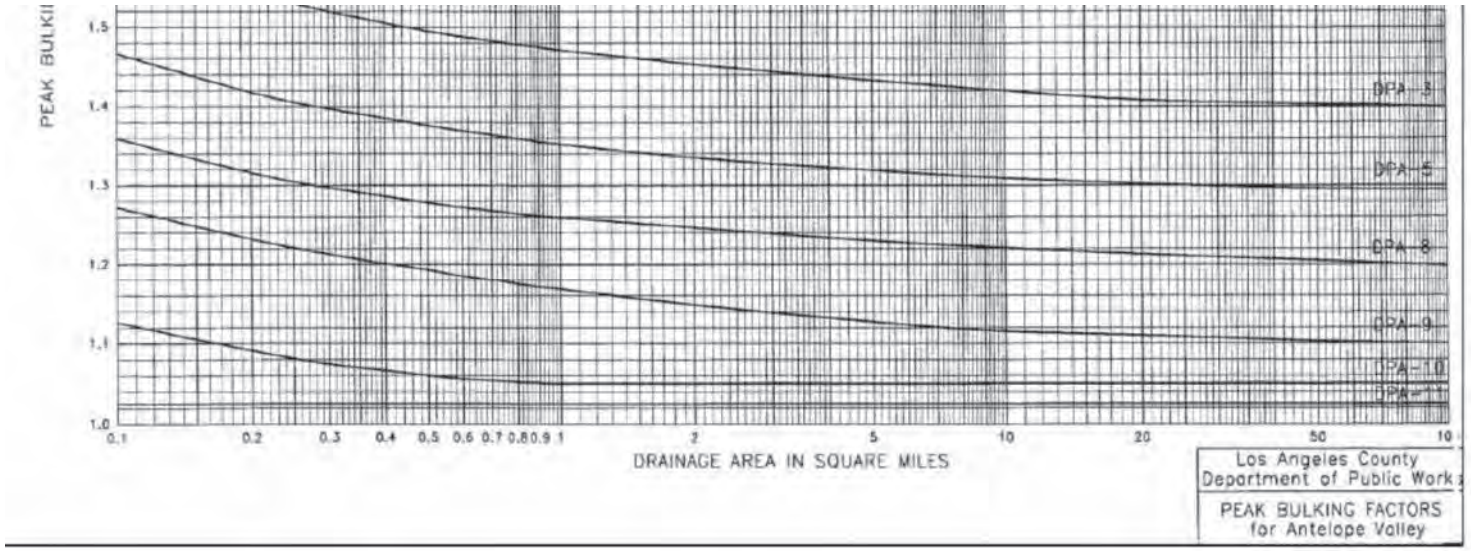


Appendix XXX: Bulked Flow Calculation

ESTU2023000671
RPPL2022013992

DPA	AREA [SQ. MI.]	PK BLK FACTOR	BULKING
5	21	1.3	0.14677419
8	27	1.2	0.17419355
9	20	1.1	0.11827957
10	13	1.05	0.0733871
11	105	1.02	0.57580645
		TOTAL BULKING:	**1.08844086**

= BLK FACTOR*AREA/TOTAL AREA



Appendix XXXI: HEC-HMS Summary Outputs

2-YEAR 24-HOUR CLEAR					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak		Volume (ACRE-FT)
Subbasin-10	12.3	432.7	1-Jan-01	21:53	145.1
Subbasin-11	5.1	271.5	1-Jan-01	20:54	57.3
Reach-19	17.4	476.1	1-Jan-01	23:09	199.2
Subbasin-15	4.6	184.3	1-Jan-01	21:00	38.5
Subbasin-25	0.4	41.3	1-Jan-01	20:14	6.9
Reach-16	22.4	409.8	2-Jan-01	00:04	241.2
Subbasin-16	5.2	184.4	1-Jan-01	21:24	112.8
Subbasin-28	0.5	29.4	1-Jan-01	20:29	3.2
Reach-15	28.1	457.4	2-Jan-01	00:17	357.1
Subbasin-5	9.9	636.3	1-Jan-01	21:31	255.2
Subbasin-4	4.4	384.9	1-Jan-01	20:53	128.8
Reach-18	14.3	872.1	2-Jan-01	01:35	383.4
Subbasin-8	5.3	204.9	1-Jan-01	21:40	55.4
Subbasin-26	5.3	152.1	1-Jan-01	21:59	45.9
Reach-12	24.9	819.7	2-Jan-01	05:35	482
Subbasin-32	1.4	26	1-Jan-01	21:21	5.8
Subbasin-29	0.4	17.4	1-Jan-01	20:19	8.9
Reach-10	54.7	708.8	2-Jan-01	08:19	847.6
Subbasin-6	3.4	43	1-Jan-01	22:14	15.7
Subbasin-34	2.7	41.1	1-Jan-01	21:55	21.6
Reach-9	60.9	707.6	2-Jan-01	08:39	884.8
Subbasin-14	4.5	147.3	1-Jan-01	21:50	95.8
Subbasin-35	0.2	12.6	1-Jan-01	19:47	3.4
Reach-8	65.6	622.5	2-Jan-01	11:55	978.5
Subbasin-19	12.8	294.2	1-Jan-01	22:47	318.2
Subbasin-36	2.3	20	1-Jan-01	21:10	7.2
Reach-7	80.6	593.6	2-Jan-01	14:35	1299.5
Subbasin-13	6.7	139.3	1-Jan-01	22:05	147.2
Subbasin-9	6.6	135.6	1-Jan-01	21:50	127.2
Reach-21	13.2	247.2	1-Jan-01	22:26	273.8
Subbasin-37	2.2	28.5	1-Jan-01	21:14	14.4
Subbasin-23	0.4	18.4	1-Jan-01	20:29	6.5
Reach-6	96.5	603.6	2-Jan-01	14:41	1594
Subbasin-18	7.6	635.8	1-Jan-01	21:06	257.7
Subbasin-20	3.3	440.1	1-Jan-01	20:31	189.5
Reach-20	11	969.3	1-Jan-01	21:21	447.2
Subbasin-21	4.9	476.3	1-Jan-01	20:37	137.2
Subbasin-24	3.6	400	1-Jan-01	20:26	84.9
Reach-17	19.5	1489	1-Jan-01	21:24	669.3
Subbasin-22	9.9	1060.2	1-Jan-01	20:50	299.6
Subbasin-27	9.7	875.9	1-Jan-01	21:34	344.3
Reach-11	39.1	2131.4	1-Jan-01	22:25	1313
Subbasin-33	5.4	122.3	1-Jan-01	22:33	153
Subbasin-17	4.3	78.5	1-Jan-01	21:24	70
Reach-5	48.8	2302.6	1-Jan-01	23:23	1535.9
Subbasin-7	3.7	91	1-Jan-01	21:24	92.3
Subbasin-39	0.3	18.4	1-Jan-01	20:17	10
Reach-4	52.8	2341.5	1-Jan-01	23:41	1637.7
Subbasin-40	0.6	28.7	1-Jan-01	20:51	17.6
Subbasin-38	0.1	4.8	1-Jan-01	19:54	1
Reach-3	149.9	2623.2	1-Jan-01	23:49	3250.4
Subbasin-41	3.8	49.3	1-Jan-01	21:55	41.4
Reach-2	153.7	2487.2	2-Jan-01	00:54	3283.8
Subbasin-12	9.7	146.8	1-Jan-01	22:50	210.2
Subbasin-3	4.9	64.5	1-Jan-01	22:24	78.2
Reach-14	14.6	208.2	1-Jan-01	22:55	288.4
Subbasin-42	0.3	16.9	1-Jan-01	20:29	4.7
Subbasin-30	0	0.9	1-Jan-01	19:31	0.1
Reach-1	168.6	2283.7	2-Jan-01	02:41	3550.7
Subbasin-44	13.6	104.8	1-Jan-01	23:12	52.3
Reach-13	13.6	55.6	2-Jan-01	01:14	49.7
Subbasin-31	2.5	56.1	1-Jan-01	21:23	31.3
Subbasin-43	0.7	22.2	1-Jan-01	20:41	7.5
Sink-1	185.4	2297.2	2-Jan-01	02:40	3639.2

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5-YEAR 24-HOUR CLEAR					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (ACRE-FT)	Volume (ACRE-FT)
Subbasin-10	12.3	945.3	1-Jan-01	21:52	334
Subbasin-11	5.1	571.3	1-Jan-01	20:54	131.4
Reach-19	17.4	1094.8	1-Jan-01	22:50	460.1
Subbasin-15	4.6	402.3	1-Jan-01	20:59	88.5
Subbasin-25	0.4	68.4	1-Jan-01	20:14	16.5
Reach-16	22.4	1006.8	1-Jan-01	23:29	559.8
Subbasin-16	5.2	354.2	1-Jan-01	21:24	194
Subbasin-28	0.5	58	1-Jan-01	20:29	7.6
Reach-15	28.1	1117.4	1-Jan-01	23:31	761.3
Subbasin-5	9.9	1264.9	1-Jan-01	21:30	609.9
Subbasin-4	4.4	724.4	1-Jan-01	20:53	308.4
Reach-18	14.3	1754.2	2-Jan-01	00:55	917.1
Subbasin-8	5.3	446.9	1-Jan-01	21:40	130.8
Subbasin-26	5.3	340	1-Jan-01	22:00	107.5
Reach-12	24.9	1674	2-Jan-01	04:10	1150.6
Subbasin-32	1.4	60.3	1-Jan-01	21:20	13
Subbasin-29	0.4	30.9	1-Jan-01	20:19	14.2
Reach-10	54.7	1557.3	2-Jan-01	06:15	1929.5
Subbasin-6	3.4	101.1	1-Jan-01	21:48	31.4
Subbasin-34	2.7	86.8	1-Jan-01	21:55	40.7
Reach-9	60.9	1556.4	2-Jan-01	06:31	2001.5
Subbasin-14	4.5	274.7	1-Jan-01	21:50	160.8
Subbasin-35	0.2	21.8	1-Jan-01	19:47	5.9
Reach-8	65.6	1420.8	2-Jan-01	09:05	2158.4
Subbasin-19	12.8	522.2	1-Jan-01	22:50	525.9
Subbasin-36	2.3	47.4	1-Jan-01	21:09	16.6
Reach-7	80.6	1377.9	2-Jan-01	11:10	2693.9
Subbasin-13	6.7	239.1	1-Jan-01	22:05	236.9
Subbasin-9	6.6	240.6	1-Jan-01	21:50	208.1
Reach-21	13.2	427.5	1-Jan-01	22:23	443.9
Subbasin-37	2.2	62.1	1-Jan-01	21:14	29.7
Subbasin-23	0.4	32.4	1-Jan-01	20:29	12.8
Reach-6	96.5	1402.2	2-Jan-01	11:14	3180.2
Subbasin-18	7.6	1189.8	1-Jan-01	21:06	615.9
Subbasin-20	3.3	738.3	1-Jan-01	20:31	425
Reach-20	11	1767.8	1-Jan-01	21:18	1040.8
Subbasin-21	4.9	886.1	1-Jan-01	20:37	327.5
Subbasin-24	3.6	746.7	1-Jan-01	20:26	195.6
Reach-17	19.5	2877.9	1-Jan-01	21:16	1563.9
Subbasin-22	9.9	1909.1	1-Jan-01	20:50	700.2
Subbasin-27	9.7	1570	1-Jan-01	21:34	810.9
Reach-11	39.1	4566.3	1-Jan-01	22:05	3074.7
Subbasin-33	5.4	207.9	1-Jan-01	22:34	246.6
Subbasin-17	4.3	140.8	1-Jan-01	21:24	114.1
Reach-5	48.8	4833.8	1-Jan-01	22:58	3435.3
Subbasin-7	3.7	148.4	1-Jan-01	21:24	143.7
Subbasin-39	0.3	30.7	1-Jan-01	20:17	16.3
Reach-4	52.8	4927.8	1-Jan-01	23:15	3594.6
Subbasin-40	0.6	48.2	1-Jan-01	20:51	31
Subbasin-38	0.1	8.2	1-Jan-01	19:54	2.2
Reach-3	149.9	5354.3	1-Jan-01	23:21	6808.7
Subbasin-41	3.8	95.9	1-Jan-01	21:56	73.2
Reach-2	153.7	5215.8	2-Jan-01	00:15	6870.7
Subbasin-12	9.7	239.2	1-Jan-01	22:51	330.5
Subbasin-3	4.9	110.5	1-Jan-01	22:24	126.4
Reach-14	14.6	343.6	1-Jan-01	22:54	456.9
Subbasin-42	0.3	29.8	1-Jan-01	20:29	9.7
Subbasin-30	0	1.5	1-Jan-01	19:31	0.2
Reach-1	168.6	4754.2	2-Jan-01	01:38	7295.5
Subbasin-44	13.6	245.7	1-Jan-01	23:13	118.1
Reach-13	13.6	128.4	2-Jan-01	00:54	110.8
Subbasin-31	2.5	110	1-Jan-01	21:23	69.3
Subbasin-43	0.7	42	1-Jan-01	20:41	17.2
Sink-1	185.4	4785.9	2-Jan-01	01:36	7492.8

10-YEAR 24-HOUR CLEAR					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (ACRE-FT)	Volume (ACRE-FT)
Subbasin-10	12.3	1348.4	1-Jan-01	21:52	505.6
Subbasin-11	5.1	798	1-Jan-01	20:54	198.6
Reach-19	17.4	1607.7	1-Jan-01	22:42	698.7
Subbasin-15	4.6	572.3	1-Jan-01	20:59	133.7
Subbasin-25	0.4	86.3	1-Jan-01	20:14	25.1
Reach-16	22.4	1543.1	1-Jan-01	23:13	851.3
Subbasin-16	5.2	489.5	1-Jan-01	21:24	257.7
Subbasin-28	0.5	78.5	1-Jan-01	20:28	11.6
Reach-15	28.1	1711.8	1-Jan-01	23:19	1120.5
Subbasin-5	9.9	1717.8	1-Jan-01	21:30	935.8
Subbasin-4	4.4	959.2	1-Jan-01	20:53	473.5
Reach-18	14.3	2393.5	2-Jan-01	00:40	1407.8
Subbasin-8	5.3	635	1-Jan-01	21:40	199.9
Subbasin-26	5.3	491.3	1-Jan-01	21:59	163.7
Reach-12	24.9	2320.2	2-Jan-01	03:37	1764.2
Subbasin-32	1.4	88.9	1-Jan-01	21:21	19.5
Subbasin-29	0.4	41.2	1-Jan-01	20:19	18
Reach-10	54.7	2197.1	2-Jan-01	05:24	2909.2
Subbasin-6	3.4	148.4	1-Jan-01	21:48	44
Subbasin-34	2.7	125	1-Jan-01	21:55	56.6
Reach-9	60.9	2197.9	2-Jan-01	05:38	3009.5
Subbasin-14	4.5	374.9	1-Jan-01	21:50	210.5
Subbasin-35	0.2	27.9	1-Jan-01	19:47	7.9
Reach-8	65.6	2033.1	2-Jan-01	07:53	3214.7
Subbasin-19	12.8	702.5	1-Jan-01	22:51	682.5
Subbasin-36	2.3	71.4	1-Jan-01	21:09	25
Reach-7	80.6	1993.7	2-Jan-01	09:42	3913.7
Subbasin-13	6.7	316.4	1-Jan-01	22:05	302.2
Subbasin-9	6.6	323.5	1-Jan-01	21:50	268.2
Reach-21	13.2	568.1	1-Jan-01	22:21	569
Subbasin-37	2.2	89.7	1-Jan-01	21:14	43.1
Subbasin-23	0.4	41.9	1-Jan-01	20:29	18.3
Reach-6	96.5	2032	2-Jan-01	09:45	4544
Subbasin-18	7.6	1571.3	1-Jan-01	21:06	944.8
Subbasin-20	3.3	936.2	1-Jan-01	20:31	585.2
Reach-20	11	2311.5	1-Jan-01	21:17	1530
Subbasin-21	4.9	1167.3	1-Jan-01	20:37	502.3
Subbasin-24	3.6	985.9	1-Jan-01	20:26	296.3
Reach-17	19.5	3843.5	1-Jan-01	21:13	2329.1
Subbasin-22	9.9	2482.9	1-Jan-01	20:50	1065.8
Subbasin-27	9.7	2037.8	1-Jan-01	21:34	1219.1
Reach-11	39.1	6485.2	1-Jan-01	22:00	4598
Subbasin-33	5.4	273.5	1-Jan-01	22:34	314.9
Subbasin-17	4.3	188.3	1-Jan-01	21:24	145.8
Reach-5	48.8	6801.5	1-Jan-01	22:48	5058.7
Subbasin-7	3.7	189.7	1-Jan-01	21:24	179.1
Subbasin-39	0.3	39.2	1-Jan-01	20:17	20.9
Reach-4	52.8	6766.9	1-Jan-01	23:04	5257.7
Subbasin-40	0.6	61.4	1-Jan-01	20:51	41.7
Subbasin-38	0.1	10.4	1-Jan-01	19:54	3.3
Reach-3	149.9	7374	1-Jan-01	23:10	9848.4
Subbasin-41	3.8	133.6	1-Jan-01	21:56	98.5
Reach-2	153.7	7155.4	2-Jan-01	00:01	9933.3
Subbasin-12	9.7	306	1-Jan-01	22:52	414.6
Subbasin-3	4.9	145.9	1-Jan-01	22:25	161.6
Reach-14	14.6	443.3	1-Jan-01	22:54	576.1
Subbasin-42	0.3	38.5	1-Jan-01	20:29	14.1
Subbasin-30	0	1.9	1-Jan-01	19:31	0.4
Reach-1	168.6	6550.2	2-Jan-01	01:16	10473.5
Subbasin-44	13.6	372.3	1-Jan-01	23:16	177.3
Reach-13	13.6	197.7	2-Jan-01	00:44	166.1
Subbasin-31	2.5	149.1	1-Jan-01	21:23	103.4
Subbasin-43	0.7	55.8	1-Jan-01	20:41	26.1
Sink-1	185.4	6599.8	2-Jan-01	01:14	10769

25-YEAR 24-HOUR CLEAR					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (ACRE-FT)	Volume (ACRE-FT)
Subbasin-10	12.3	1897.7	1-Jan-01	21:52	1.18
Subbasin-11	5.1	1100.3	1-Jan-01	20:54	1.11
Reach-19	17.4	2324.9	1-Jan-01	22:35	1.15
Subbasin-15	4.6	803.5	1-Jan-01	20:59	0.83
Subbasin-25	0.4	108.8	1-Jan-01	20:14	1.83
Reach-16	22.4	2320.8	1-Jan-01	22:58	1.09
Subbasin-16	5.2	678	1-Jan-01	21:24	1.26
Subbasin-28	0.5	104.8	1-Jan-01	20:28	0.72
Reach-15	28.1	2581.6	1-Jan-01	22:55	1.12
Subbasin-5	9.9	2301.8	1-Jan-01	21:30	2.74
Subbasin-4	4.4	1256.1	1-Jan-01	20:53	3.11
Reach-18	14.3	3213.6	2-Jan-01	00:27	2.85
Subbasin-8	5.3	889.9	1-Jan-01	21:40	1.09
Subbasin-26	5.3	699.9	1-Jan-01	21:59	0.9
Reach-12	24.9	3186.5	2-Jan-01	03:09	2.06
Subbasin-32	1.4	130.1	1-Jan-01	21:20	0.39
Subbasin-29	0.4	55	1-Jan-01	20:19	1.2
Reach-10	54.7	3120.6	2-Jan-01	04:38	1.52
Subbasin-6	3.4	219	1-Jan-01	21:48	0.34
Subbasin-34	2.7	180.2	1-Jan-01	21:55	0.55
Reach-9	60.9	3123.8	2-Jan-01	04:51	1.41
Subbasin-14	4.5	513.8	1-Jan-01	21:50	1.17
Subbasin-35	0.2	35.8	1-Jan-01	19:47	1.28
Reach-8	65.6	2918.2	2-Jan-01	06:49	1.39
Subbasin-19	12.8	954.8	1-Jan-01	22:50	1.32
Subbasin-36	2.3	106.8	1-Jan-01	21:09	0.31
Reach-7	80.6	2886.5	2-Jan-01	08:23	1.34
Subbasin-13	6.7	424.1	1-Jan-01	22:05	1.1
Subbasin-9	6.6	439.2	1-Jan-01	21:50	1
Reach-21	13.2	767.2	1-Jan-01	22:19	1.05
Subbasin-37	2.2	128.6	1-Jan-01	21:14	0.54
Subbasin-23	0.4	53.9	1-Jan-01	20:29	1.32
Reach-6	96.5	2947.5	2-Jan-01	08:24	1.29
Subbasin-18	7.6	2052.3	1-Jan-01	21:06	3.46
Subbasin-20	3.3	1184.3	1-Jan-01	20:31	4.42
Reach-20	11	2985.8	1-Jan-01	21:16	3.75
Subbasin-21	4.9	1522.4	1-Jan-01	20:37	2.96
Subbasin-24	3.6	1288.3	1-Jan-01	20:26	2.36
Reach-17	19.5	5057.3	1-Jan-01	21:11	3.29
Subbasin-22	9.9	3204.3	1-Jan-01	20:50	3.04
Subbasin-27	9.7	2624.6	1-Jan-01	21:34	3.35
Reach-11	39.1	8933.4	1-Jan-01	21:55	3.24
Subbasin-33	5.4	364.9	1-Jan-01	22:34	1.42
Subbasin-17	4.3	257.1	1-Jan-01	21:24	0.84
Reach-5	48.8	9394.6	1-Jan-01	22:40	2.83
Subbasin-7	3.7	246	1-Jan-01	21:24	1.15
Subbasin-39	0.3	50	1-Jan-01	20:17	1.5
Reach-4	52.8	9555.1	1-Jan-01	22:55	2.7
Subbasin-40	0.6	77.9	1-Jan-01	20:51	1.68
Subbasin-38	0.1	13.3	1-Jan-01	19:54	1.32
Reach-3	149.9	10353.5	1-Jan-01	23:01	1.79
Subbasin-41	3.8	187.3	1-Jan-01	21:55	0.68
Reach-2	153.7	10045.2	1-Jan-01	23:48	1.76
Subbasin-12	9.7	397.3	1-Jan-01	22:54	1.01
Subbasin-3	4.9	195.8	1-Jan-01	22:25	0.81
Reach-14	14.6	580.4	1-Jan-01	22:54	0.95
Subbasin-42	0.3	49.5	1-Jan-01	20:29	1.21
Subbasin-30	0	2.5	1-Jan-01	19:31	1.09
Reach-1	168.6	9157.2	2-Jan-01	00:58	1.68
Subbasin-44	13.6	562	1-Jan-01	23:22	0.37
Reach-13	13.6	311	2-Jan-01	00:35	0.35
Subbasin-31	2.5	199.6	1-Jan-01	21:23	1.15
Subbasin-43	0.7	73.4	1-Jan-01	20:41	1.1
Sink-1	185.4	9232.5	2-Jan-01	00:55	1.57

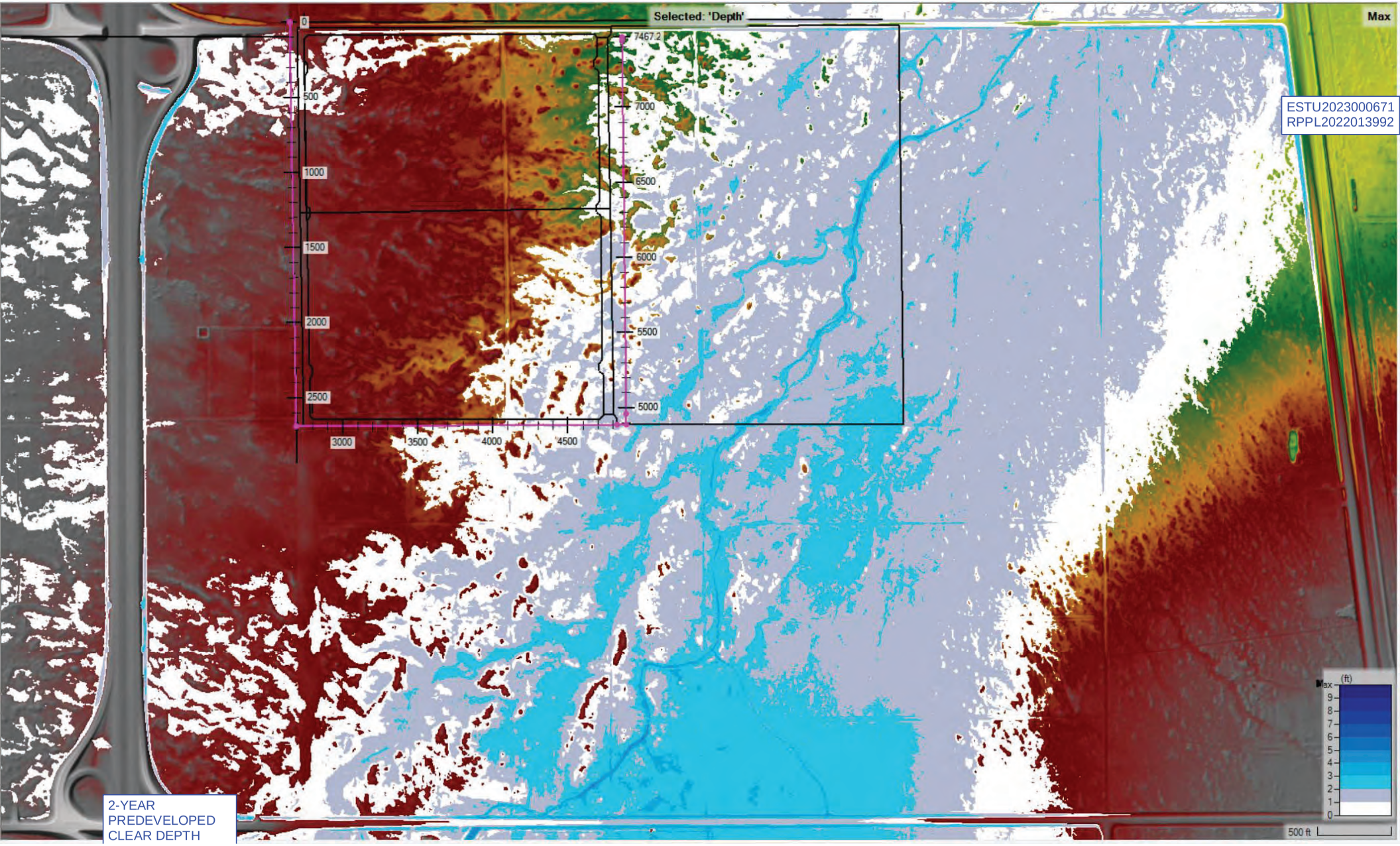
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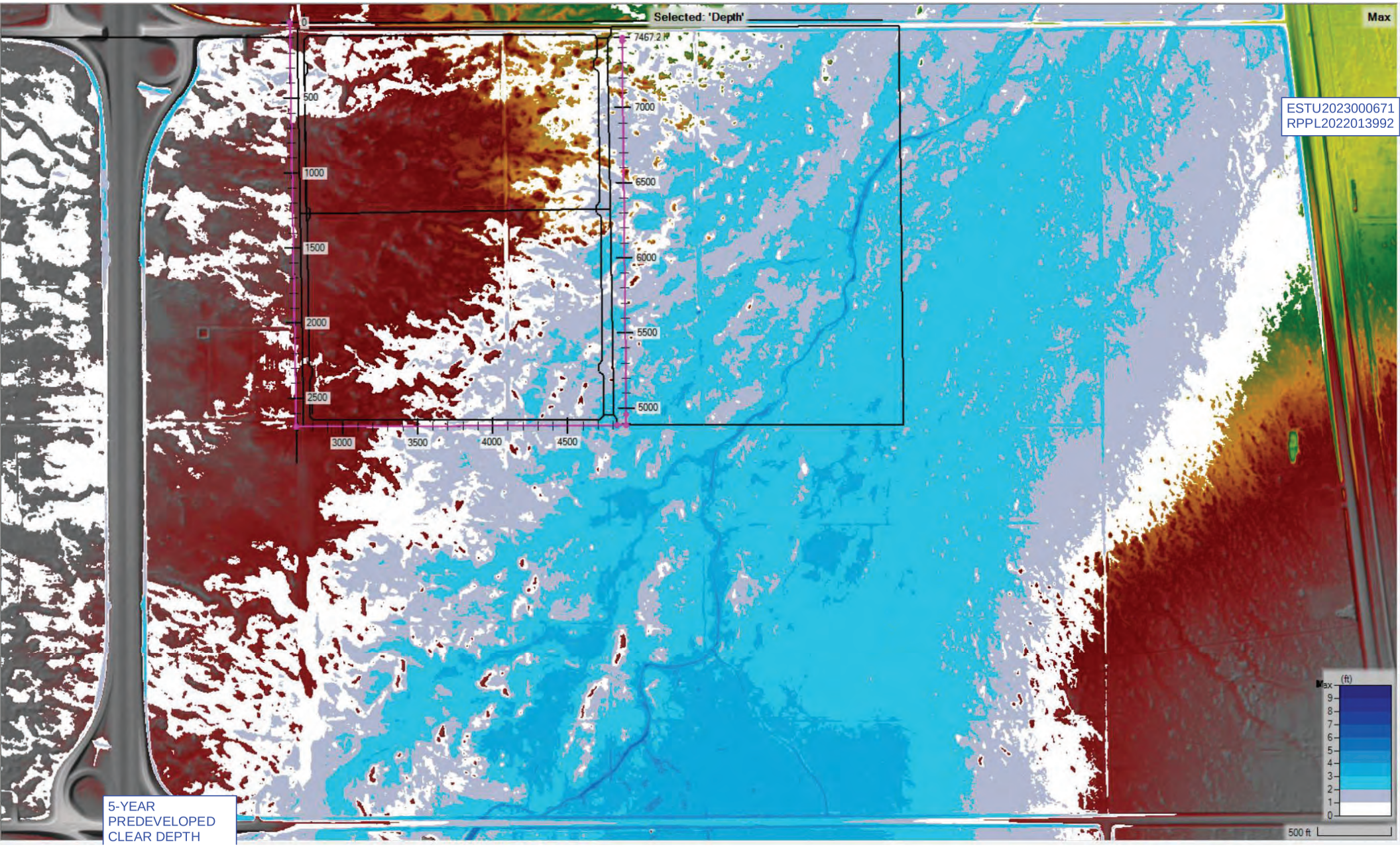
50-YEAR 24-HOUR CLEAR					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (ACRE-FT)	Volume (ACRE-FT)
Subbasin-10	12.3	2329.7	1-Jan-01	21:52	1015.8
Subbasin-11	5.1	1334	1-Jan-01	20:54	398.2
Reach-19	17.4	2896.1	1-Jan-01	22:32	1408.9
Subbasin-15	4.6	985	1-Jan-01	20:59	268.2
Subbasin-25	0.4	125.6	1-Jan-01	20:14	44.6
Reach-16	22.4	2950.5	1-Jan-01	22:51	1712.2
Subbasin-16	5.2	828.6	1-Jan-01	21:24	425.1
Subbasin-28	0.5	124.7	1-Jan-01	20:28	23.6
Reach-15	28.1	3306.6	1-Jan-01	22:34	2160.7
Subbasin-5	9.9	2741.9	1-Jan-01	21:30	1894.2
Subbasin-4	4.4	1478	1-Jan-01	20:53	923
Reach-18	14.3	3830.6	2-Jan-01	00:19	2815.4
Subbasin-8	5.3	1089.5	1-Jan-01	21:40	406.5
Subbasin-26	5.3	865.4	1-Jan-01	21:59	331.5
Reach-12	24.9	3850.4	2-Jan-01	02:52	3547.9
Subbasin-32	1.4	163.5	1-Jan-01	21:20	38.6
Subbasin-29	0.4	65.9	1-Jan-01	20:19	27.2
Reach-10	54.7	3875.3	2-Jan-01	04:12	5754.4
Subbasin-6	3.4	278	1-Jan-01	21:48	79.9
Subbasin-34	2.7	225.9	1-Jan-01	21:55	100.7
Reach-9	60.9	3881.4	2-Jan-01	04:24	5934.6
Subbasin-14	4.5	624.5	1-Jan-01	21:50	338.3
Subbasin-35	0.2	41.6	1-Jan-01	19:47	13.3
Reach-8	65.6	3656.4	2-Jan-01	06:11	6266
Subbasin-19	12.8	1160.7	1-Jan-01	22:50	1079.2
Subbasin-36	2.3	136.7	1-Jan-01	21:09	50.2
Reach-7	80.6	3804.9	2-Jan-01	07:34	7382.8
Subbasin-13	6.7	511.3	1-Jan-01	22:05	462.7
Subbasin-9	6.6	533.7	1-Jan-01	21:50	418.9
Reach-21	13.2	931.1	1-Jan-01	22:18	879.3
Subbasin-37	2.2	159.8	1-Jan-01	21:14	81.9
Subbasin-23	0.4	62.8	1-Jan-01	20:29	33
Reach-6	96.5	3974.4	2-Jan-01	07:34	8376.8
Subbasin-18	7.6	2411.5	1-Jan-01	21:06	1751.6
Subbasin-20	3.3	1369.6	1-Jan-01	20:31	936.3
Reach-20	11	3498.4	1-Jan-01	21:16	2687.6
Subbasin-21	4.9	1788	1-Jan-01	20:37	989.1
Subbasin-24	3.6	1514.7	1-Jan-01	20:26	595.7
Reach-17	19.5	5841	1-Jan-01	21:09	4272.8
Subbasin-22	9.9	3743	1-Jan-01	20:50	2014.5
Subbasin-27	9.7	3062.9	1-Jan-01	21:34	2127.8
Reach-11	39.1	10665.9	1-Jan-01	21:52	8407.6
Subbasin-33	5.4	438.7	1-Jan-01	22:34	483.2
Subbasin-17	4.3	313.4	1-Jan-01	21:24	224.7
Reach-5	48.8	11222.6	1-Jan-01	22:35	9115.2
Subbasin-7	3.7	290.7	1-Jan-01	21:24	261.6
Subbasin-39	0.3	58.1	1-Jan-01	20:17	32.2
Reach-4	52.8	11440.5	1-Jan-01	22:49	9410.6
Subbasin-40	0.6	90.3	1-Jan-01	20:51	67.2
Subbasin-38	0.1	15.4	1-Jan-01	19:54	6
Reach-3	149.9	12431.7	1-Jan-01	22:56	17861.3
Subbasin-41	3.8	231	1-Jan-01	21:55	166.7
Reach-2	153.7	11932.7	1-Jan-01	23:41	18006.3
Subbasin-12	9.7	470.8	1-Jan-01	22:55	613.5
Subbasin-3	4.9	236.5	1-Jan-01	22:25	248.2
Reach-14	14.6	691.4	1-Jan-01	22:53	861.7
Subbasin-42	0.3	57.7	1-Jan-01	20:29	26.3
Subbasin-30	0	2.8	1-Jan-01	19:31	0.7
Reach-1	168.6	11074	2-Jan-01	00:48	18820.7
Subbasin-44	13.6	723.2	1-Jan-01	23:22	352.4
Reach-13	13.6	415.3	2-Jan-01	00:30	330.9
Subbasin-31	2.5	237.6	1-Jan-01	21:23	199.7
Subbasin-43	0.7	86.6	1-Jan-01	20:41	51.4
Sink-1	185.4	11170.7	2-Jan-01	00:46	19402.7

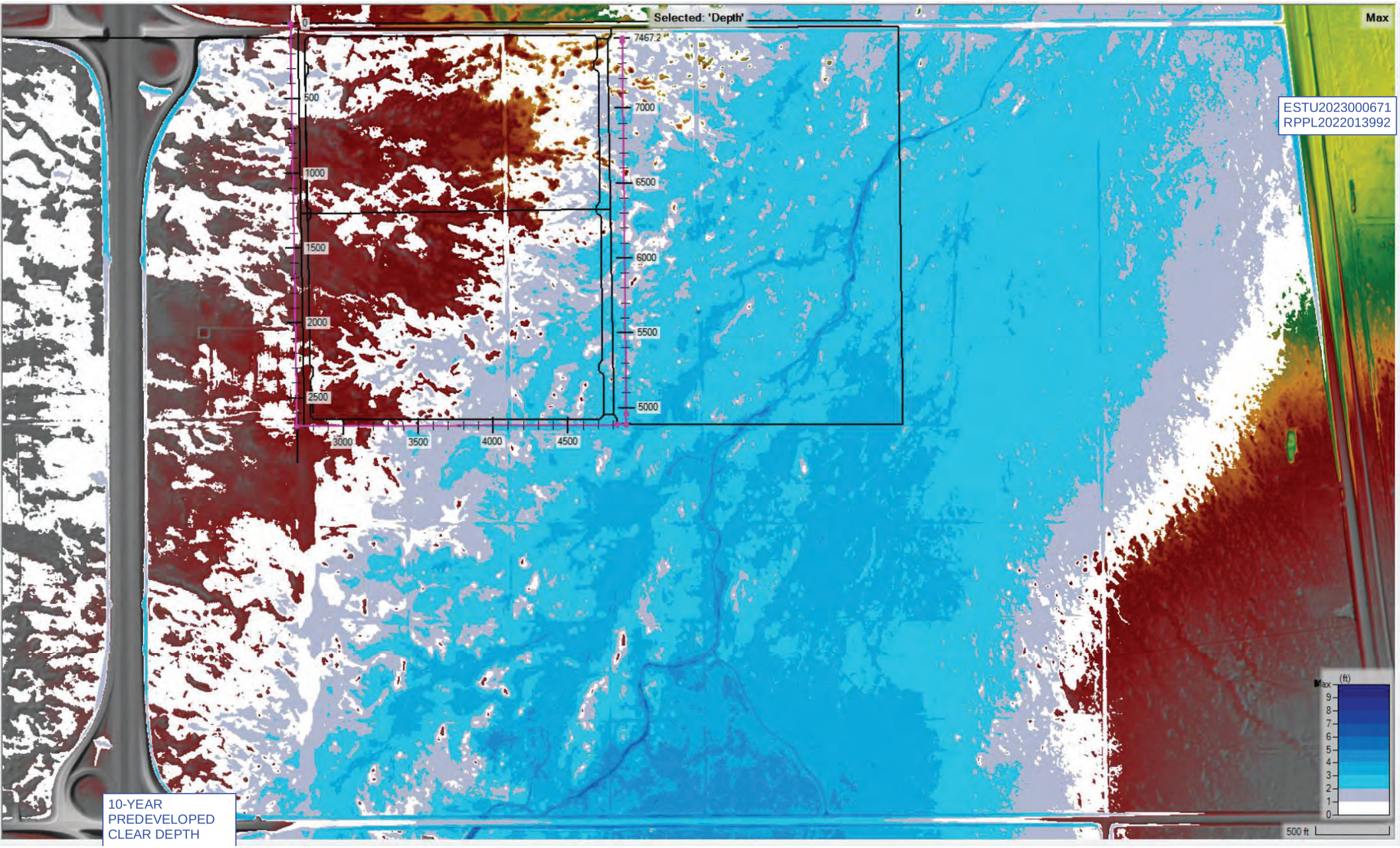
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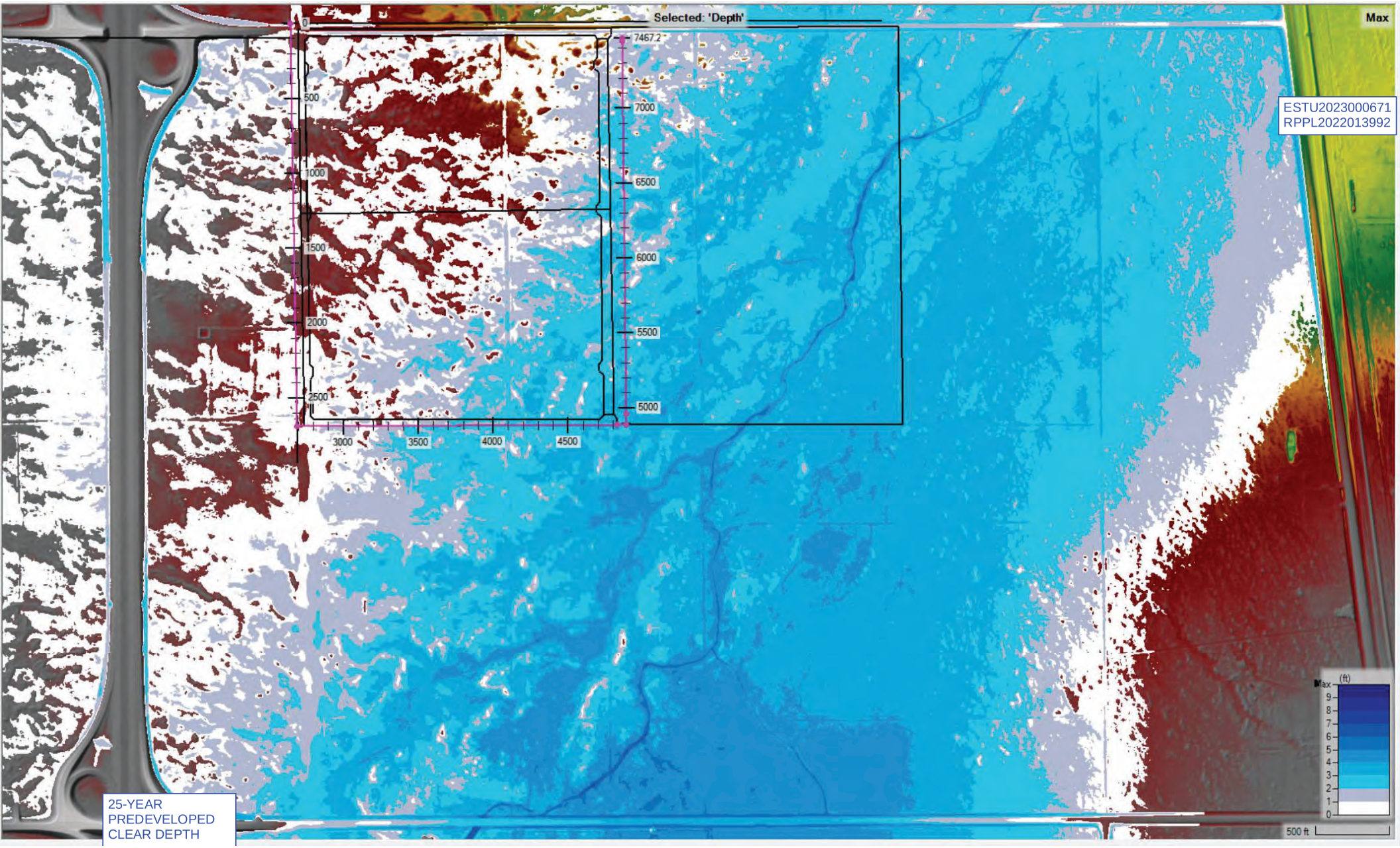
50-YEAR 24-HOUR BURNED					
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (ACRE-FT)	Volume (ACRE-FT)
Subbasin-10	12.3	2329.7	1-Jan-01	21:52	1015.8
Subbasin-11	5.1	1334	1-Jan-01	20:54	398.2
Reach-19	17.4	2896.1	1-Jan-01	22:32	1408.9
Subbasin-15	4.6	985	1-Jan-01	20:59	268.2
Subbasin-25	0.4	125.6	1-Jan-01	20:14	44.6
Reach-16	22.4	2950.5	1-Jan-01	22:51	1712.2
Subbasin-16	5.2	828.6	1-Jan-01	21:24	425.1
Subbasin-28	0.5	124.7	1-Jan-01	20:28	23.6
Reach-15	28.1	3306.6	1-Jan-01	22:34	2160.7
Subbasin-5	9.9	2741.9	1-Jan-01	21:30	1894.2
Subbasin-4	4.4	1478	1-Jan-01	20:53	923
Reach-18	14.3	3830.6	2-Jan-01	00:19	2815.4
Subbasin-8	5.3	1089.5	1-Jan-01	21:40	406.5
Subbasin-26	5.3	865.4	1-Jan-01	21:59	331.5
Reach-12	24.9	3850.4	2-Jan-01	02:52	3547.9
Subbasin-32	1.4	163.5	1-Jan-01	21:20	38.6
Subbasin-29	0.4	65.9	1-Jan-01	20:19	27.2
Reach-10	54.7	3875.3	2-Jan-01	04:12	5754.4
Subbasin-6	3.4	278	1-Jan-01	21:48	79.9
Subbasin-34	2.7	225.9	1-Jan-01	21:55	100.7
Reach-9	60.9	3881.4	2-Jan-01	04:24	5934.6
Subbasin-14	4.5	624.5	1-Jan-01	21:50	338.3
Subbasin-35	0.2	41.6	1-Jan-01	19:47	13.3
Reach-8	65.6	3656.4	2-Jan-01	06:11	6266
Subbasin-19	12.8	1160.7	1-Jan-01	22:50	1079.2
Subbasin-36	2.3	136.7	1-Jan-01	21:09	50.2
Reach-7	80.6	3804.9	2-Jan-01	07:34	7382.8
Subbasin-13	6.7	511.3	1-Jan-01	22:05	462.7
Subbasin-9	6.6	533.7	1-Jan-01	21:50	418.9
Reach-21	13.2	931.1	1-Jan-01	22:18	879.3
Subbasin-37	2.2	159.8	1-Jan-01	21:14	81.9
Subbasin-23	0.4	62.8	1-Jan-01	20:29	33
Reach-6	96.5	3974.4	2-Jan-01	07:34	8376.8
Subbasin-18	7.6	2940.5	1-Jan-01	21:06	2823.8
Subbasin-20	3.3	1517	1-Jan-01	20:31	1228.7
Reach-20	11	4177	1-Jan-01	21:15	4052.4
Subbasin-21	4.9	2174.1	1-Jan-01	20:37	1755
Subbasin-24	3.6	1853.3	1-Jan-01	20:26	1267
Reach-17	19.5	7264.4	1-Jan-01	21:07	7074.4
Subbasin-22	9.9	4410.5	1-Jan-01	20:50	3338.3
Subbasin-27	9.7	3587.8	1-Jan-01	21:34	3180.4
Reach-11	39.1	13324.7	1-Jan-01	21:49	13580.3
Subbasin-33	5.4	438.7	1-Jan-01	22:34	483.2
Subbasin-17	4.3	313.4	1-Jan-01	21:24	224.7
Reach-5	48.8	13874.4	1-Jan-01	22:30	14287.9
Subbasin-7	3.7	290.7	1-Jan-01	21:24	261.6
Subbasin-39	0.3	58.1	1-Jan-01	20:17	32.2
Reach-4	52.8	14100.4	1-Jan-01	22:43	14581.2
Subbasin-40	0.6	90.3	1-Jan-01	20:51	67.2
Subbasin-38	0.1	15.4	1-Jan-01	19:54	6
Reach-3	149.9	15064.9	1-Jan-01	22:49	23031.1
Subbasin-41	3.8	231	1-Jan-01	21:55	166.7
Reach-2	153.7	14673.4	1-Jan-01	23:33	23164
Subbasin-12	9.7	470.8	1-Jan-01	22:55	613.5
Subbasin-3	4.9	236.5	1-Jan-01	22:25	248.2
Reach-14	14.6	691.4	1-Jan-01	22:53	861.7
Subbasin-42	0.3	57.7	1-Jan-01	20:29	26.3
Subbasin-30	0	2.8	1-Jan-01	19:31	0.7
Reach-1	168.6	13716.6	2-Jan-01	00:36	23943.1
Subbasin-44	13.6	723.2	1-Jan-01	23:22	352.4
Reach-13	13.6	415.3	2-Jan-01	00:30	330.9
Subbasin-31	2.5	237.6	1-Jan-01	21:23	199.7
Subbasin-43	0.7	86.6	1-Jan-01	20:41	51.4
Sink-1	185.4	13821.2	2-Jan-01	00:35	24525.1

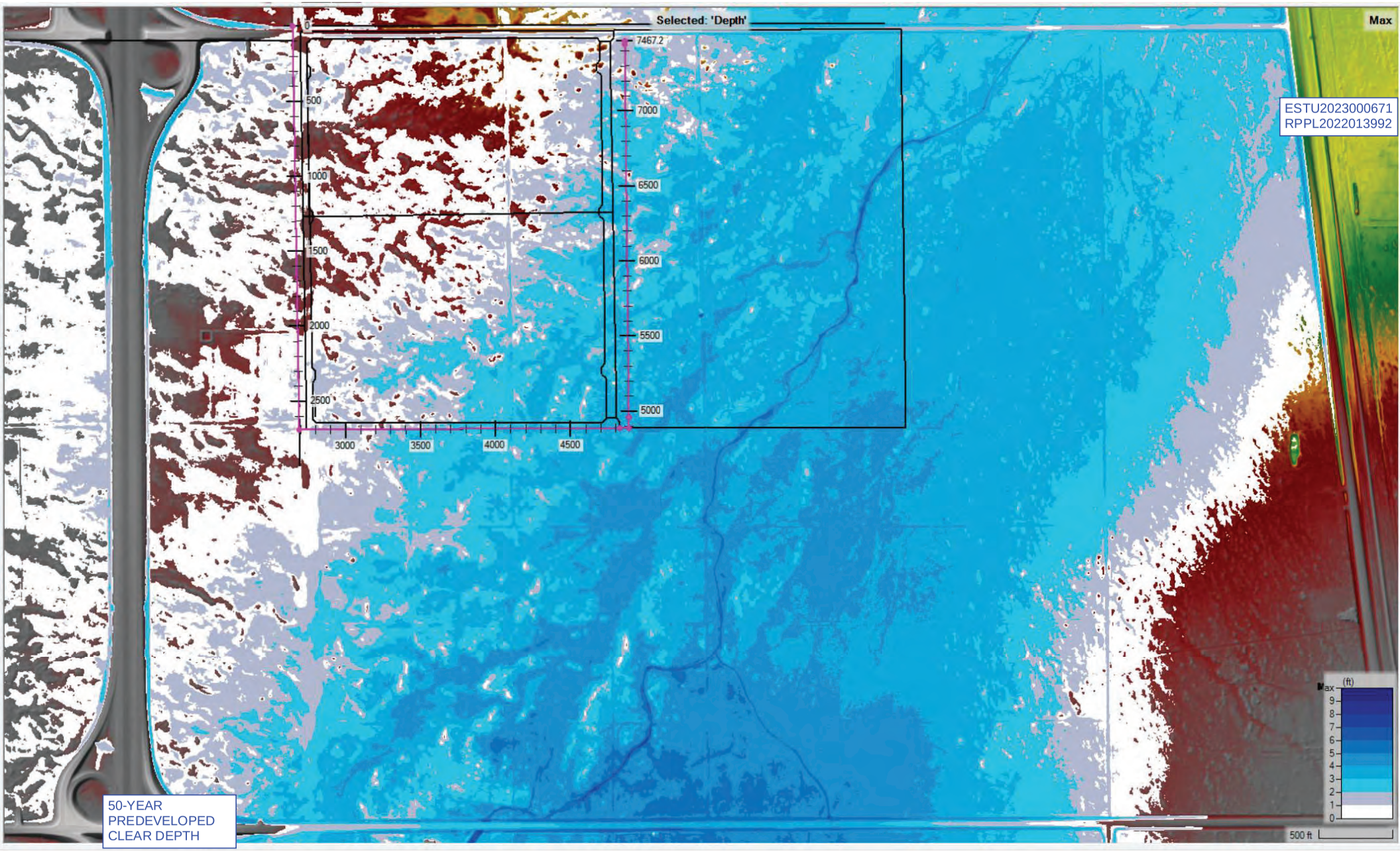
Appendix XXXII: Predeveloped Depth Maps

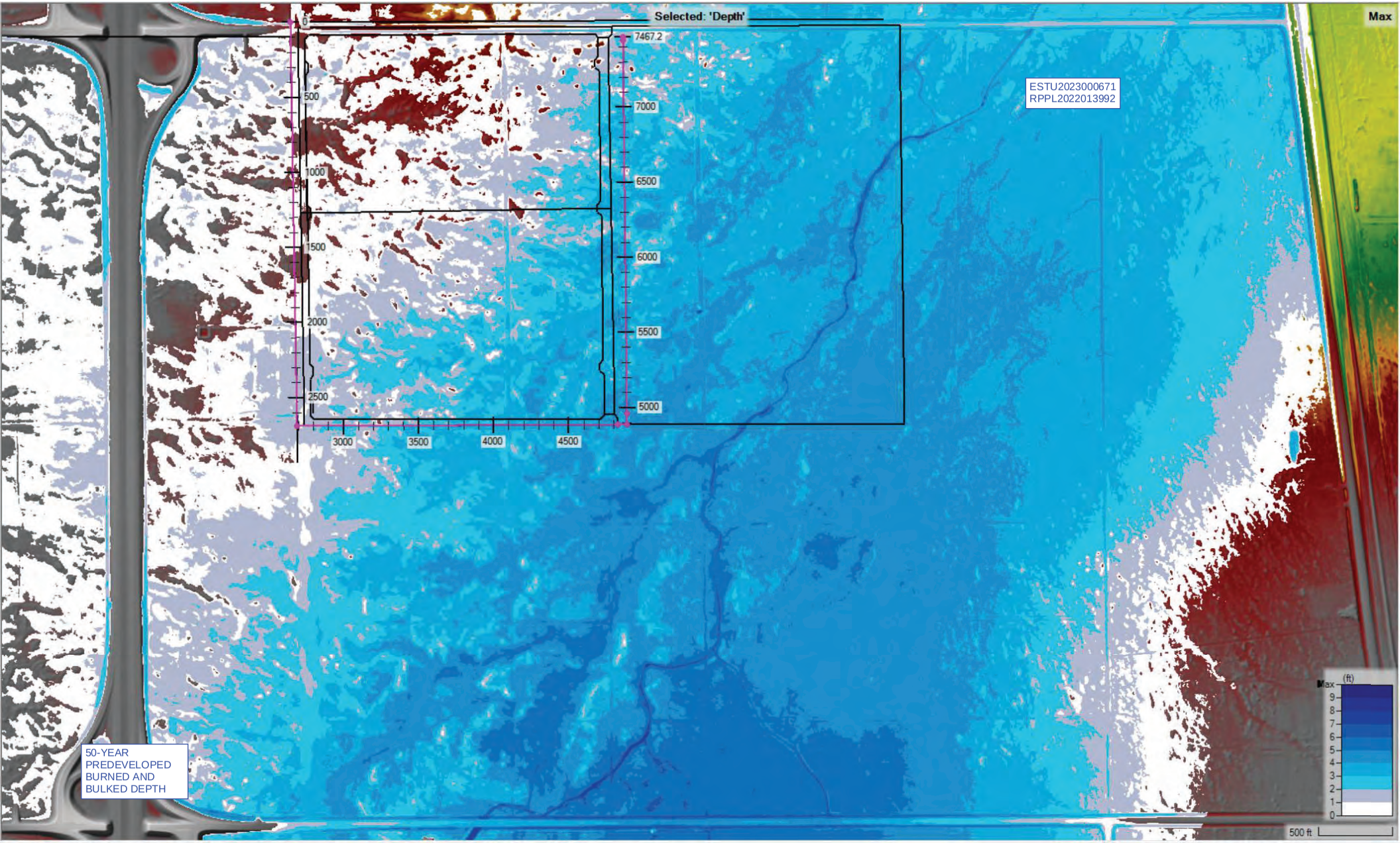

Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
Max (ft)
9
8
7
6
5
4
3
2
1
0
500 ft
2-YEAR
PREDEVELOPED
CLEAR DEPTH


Selected: 'Depth'
Max
7467.2
7000
6500
6000
5500
5000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
ESTU2023000671
RPPL2022013992
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft
5-YEAR
PREDEVELOPED
CLEAR DEPTH

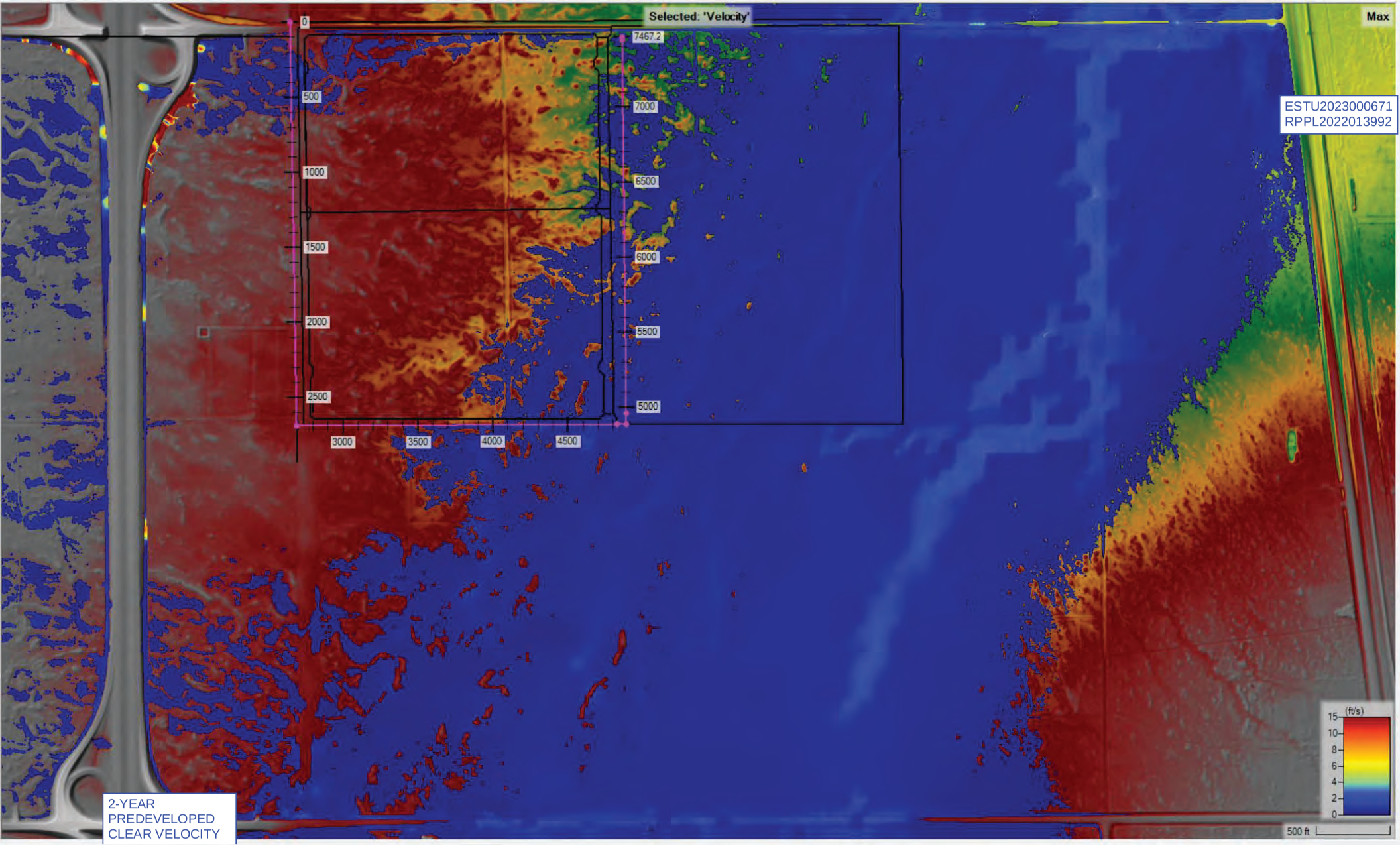

Selected: 'Depth'
Max
ESTU2023000671
RPPL2022013992
10-YEAR
PREDEVELOPED
CLEAR DEPTH
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

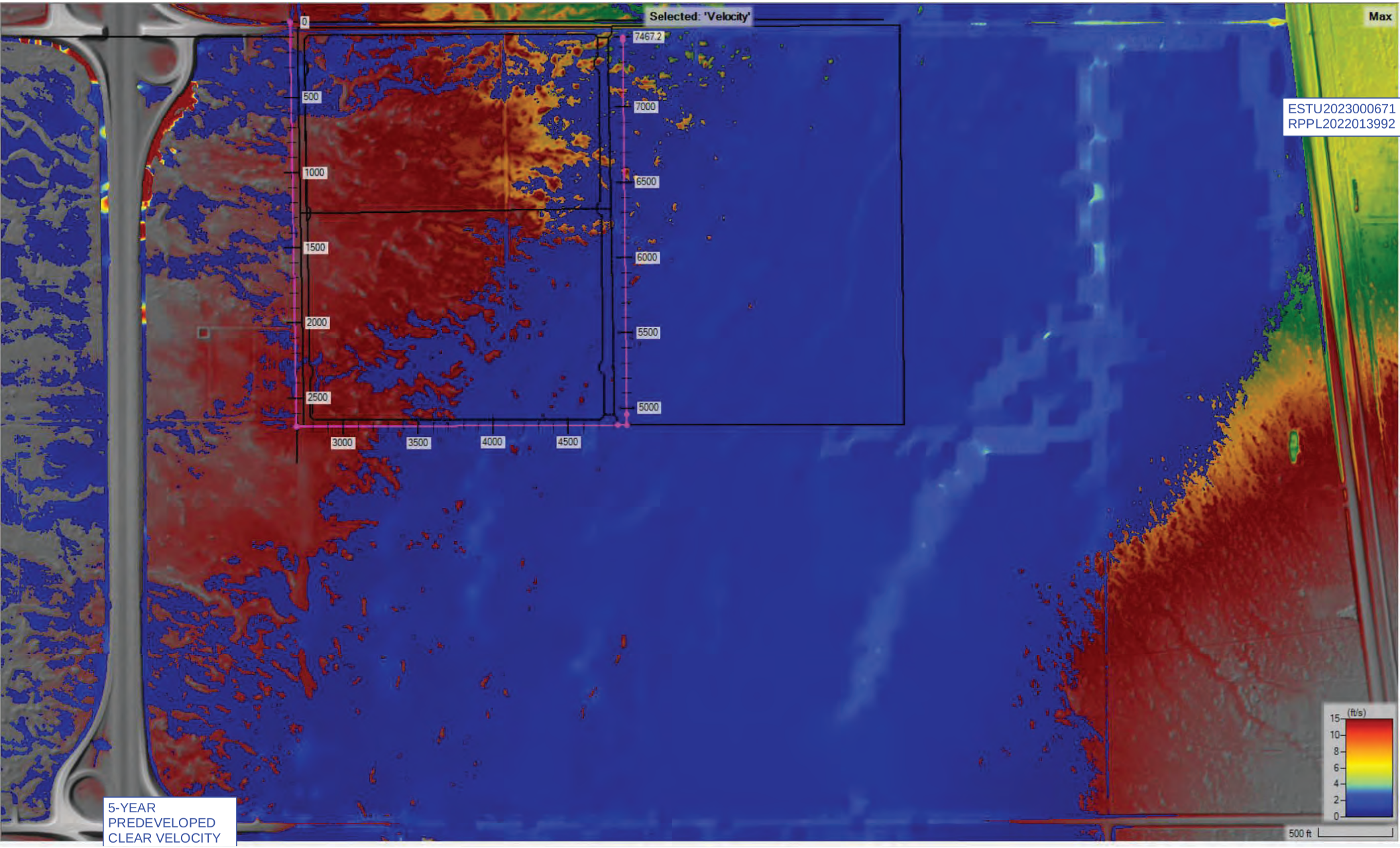

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Max
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500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
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5500
5000
ESTU2023000671
RPPL2022013992
Max
(ft)
9
8
7
6
5
4
3
2
1
0
500 ft
25-YEAR
PREDEVELOPED
CLEAR DEPTH

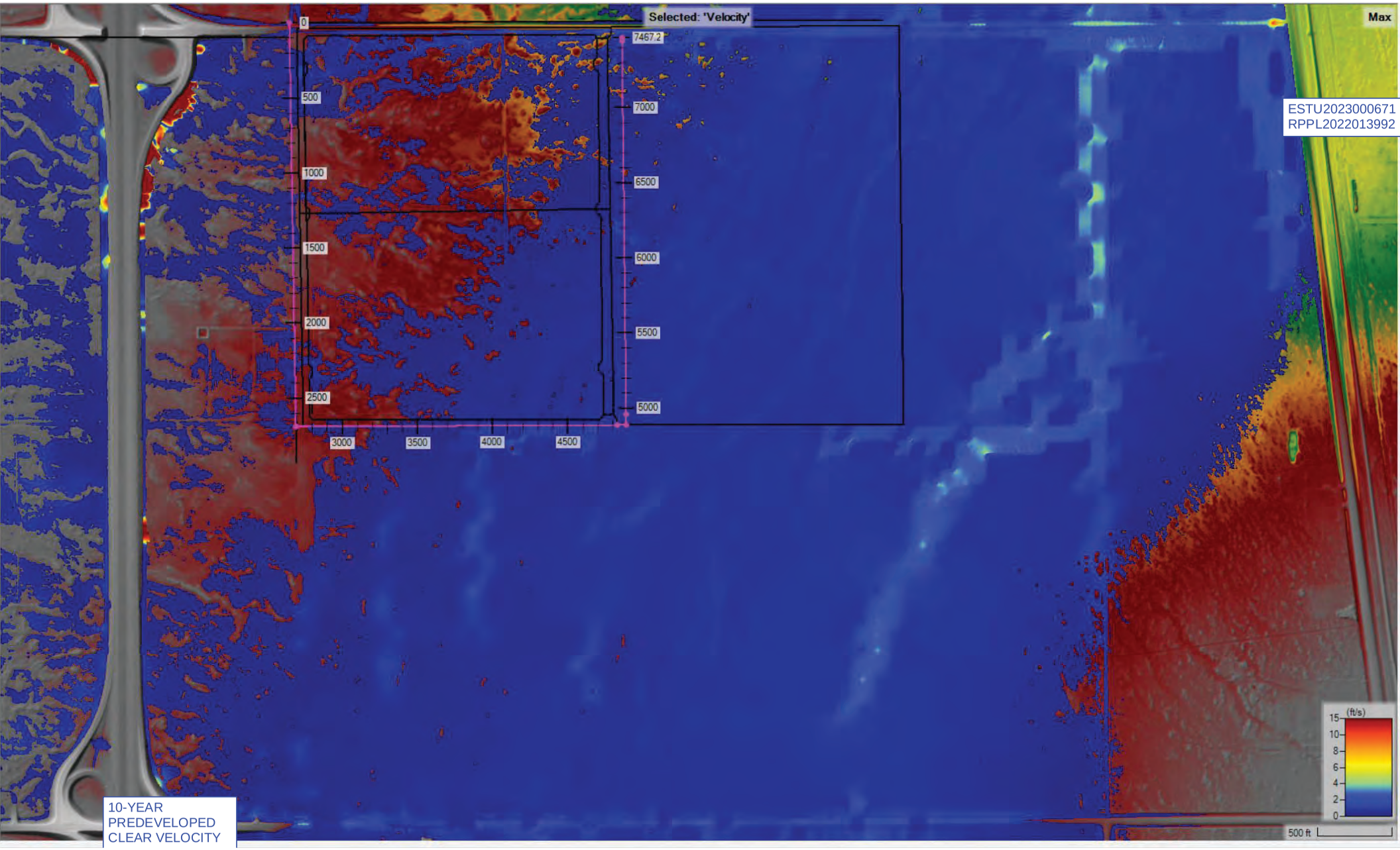

Selected: 'Depth'
Max
7467.2
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6500
6000
5500
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500
1000
1500
2000
2500
3000
3500
4000
4500
ESTU2023000671
RPPL2022013992
50-YEAR
PREDEVELOPED
CLEAR DEPTH
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft


Selected: 'Depth'
Max
7467.2
7000
6500
6000
5500
5000
0
500
1000
1500
2000
2500
3000
3500
4000
4500
ESTU2023000671
RPPL2022013992
50-YEAR
PREDEVELOPED
BURNED AND
BULKED DEPTH
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

Appendix XXXIII: Predeveloped Velocity Maps

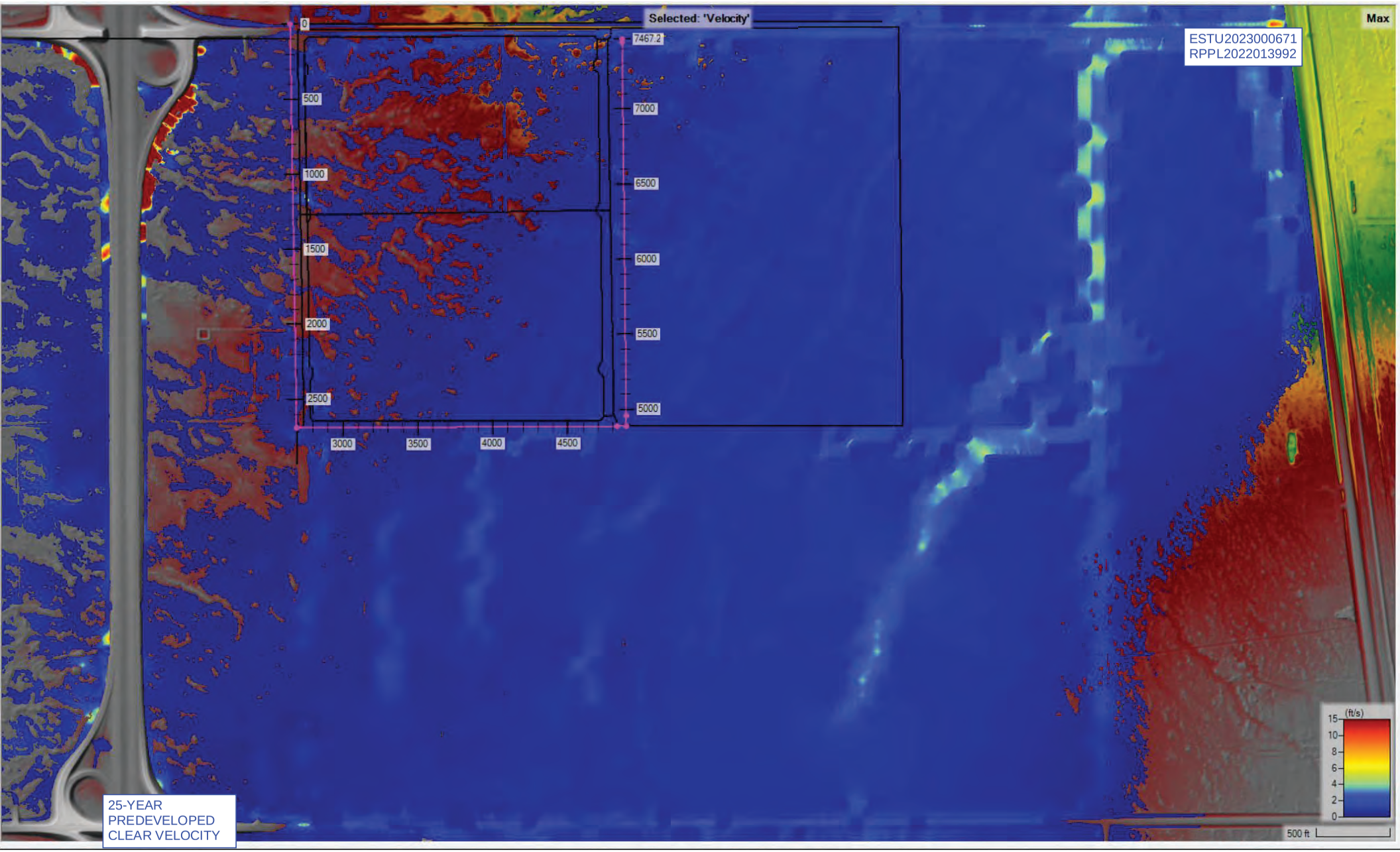

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Max
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500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
(ft/s)
15
10
8
6
4
2
0
500 ft
2-YEAR
PREDEVELOPED
CLEAR VELOCITY

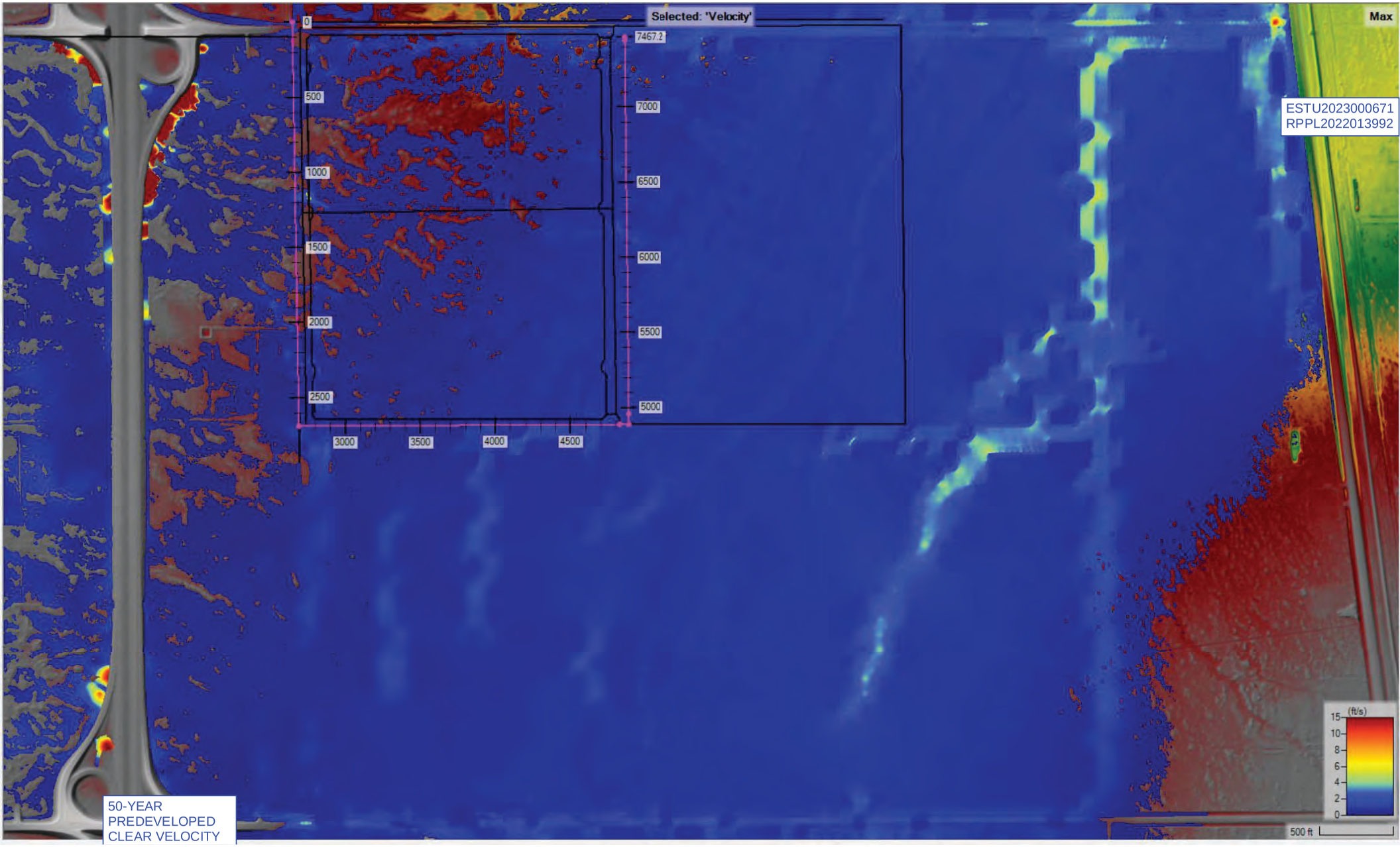

Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
(ft/s)
15
10
8
6
4
2
0
500 ft
5-YEAR
PREDEVELOPED
CLEAR VELOCITY

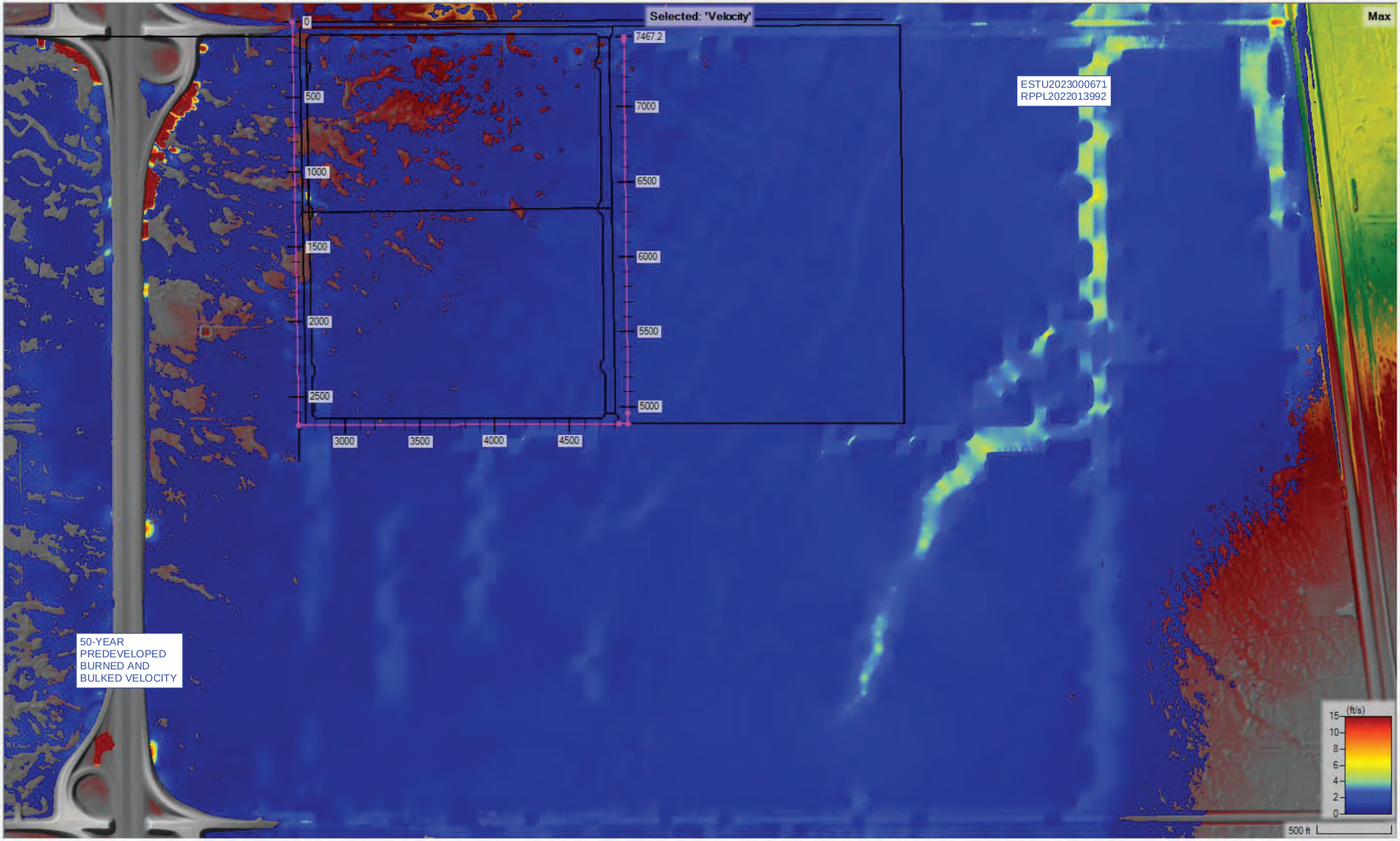


ESTU2023000671
RPPL2022013992

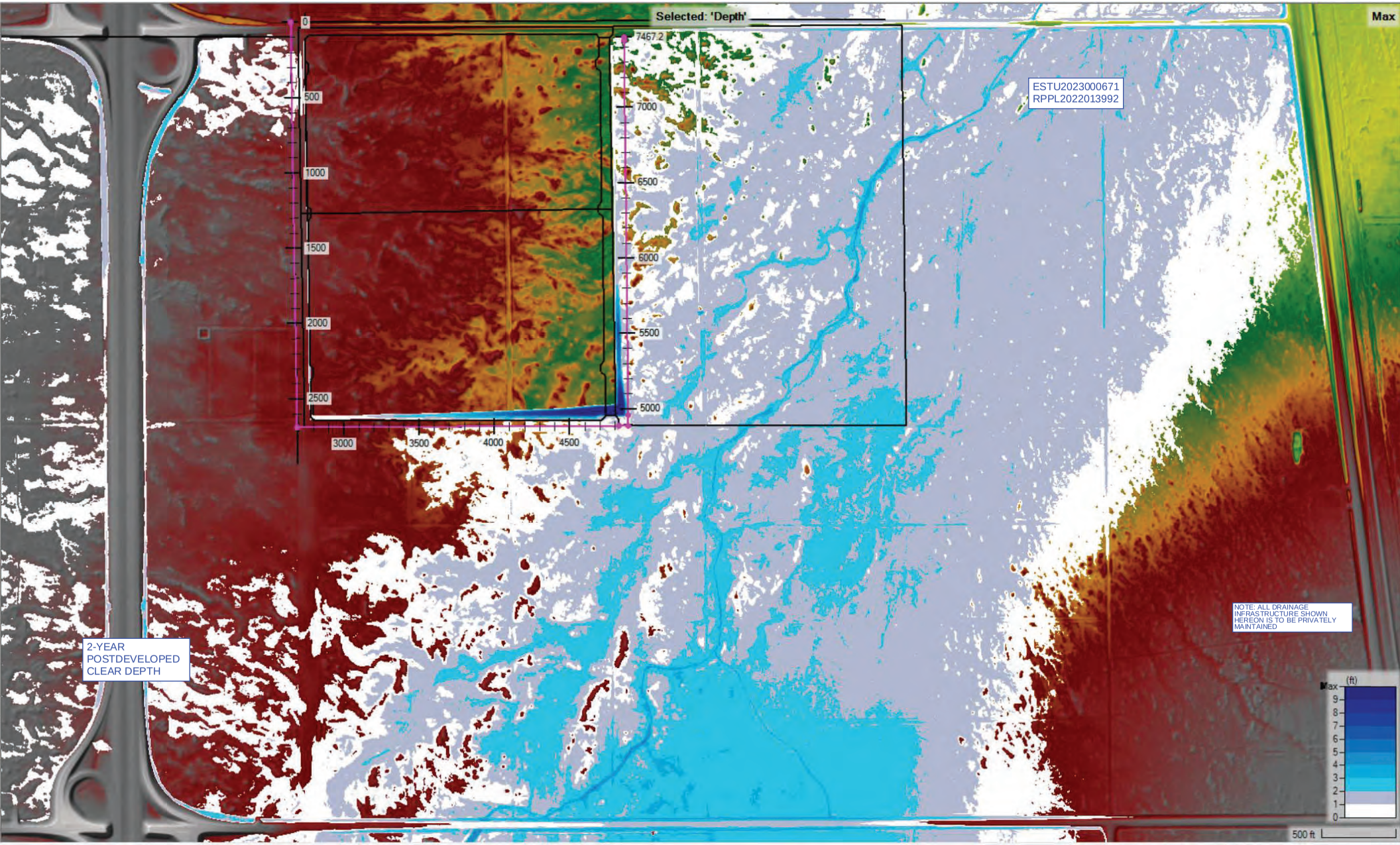
10-YEAR
PREDEVELOPED
CLEAR VELOCITY

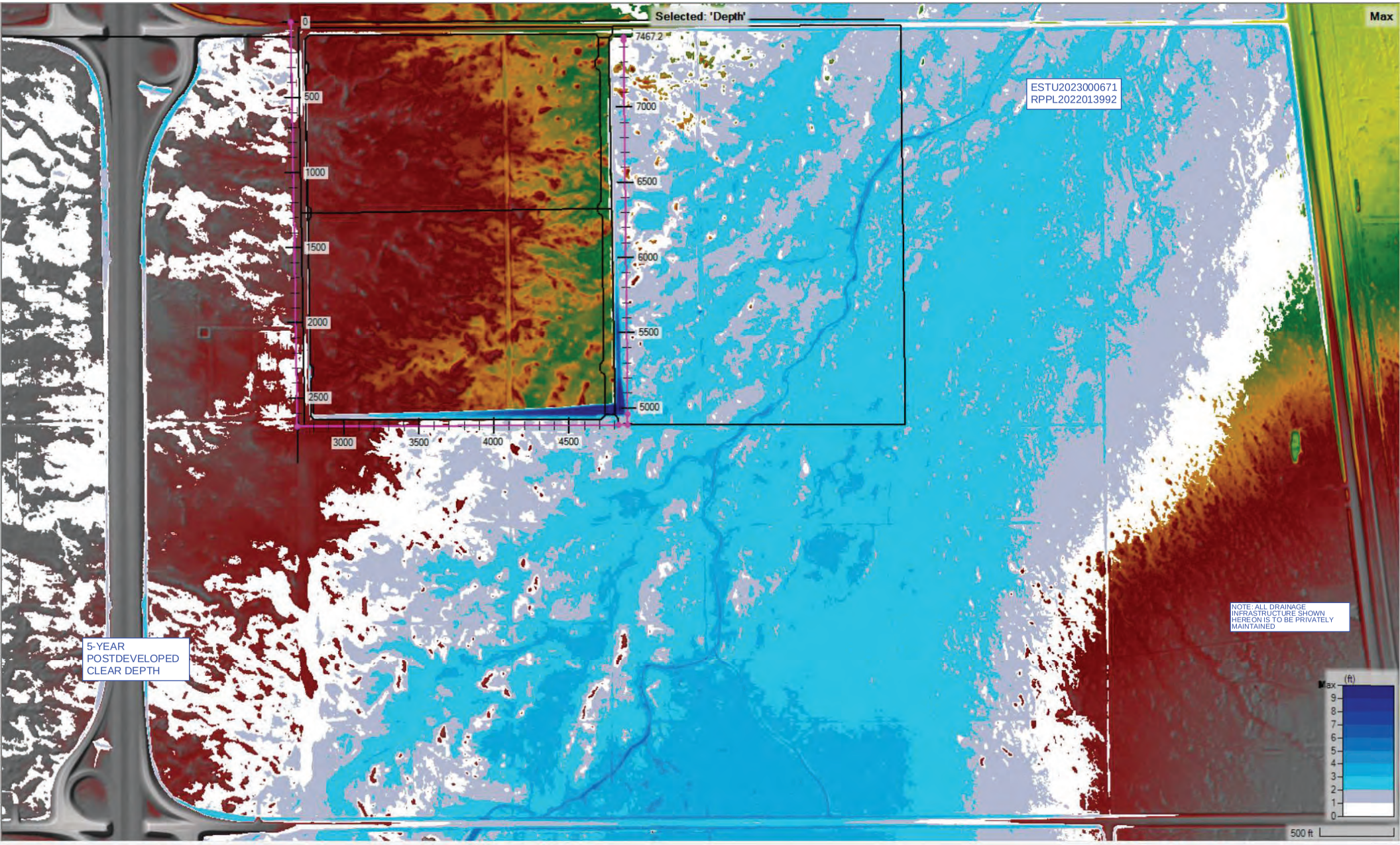

Selected: 'Velocity'
Max
ESTU2023000671
RPPL2022013992
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
(ft/s)
15
10
8
6
4
2
0
500 ft
25-YEAR
PREDEVELOPED
CLEAR VELOCITY

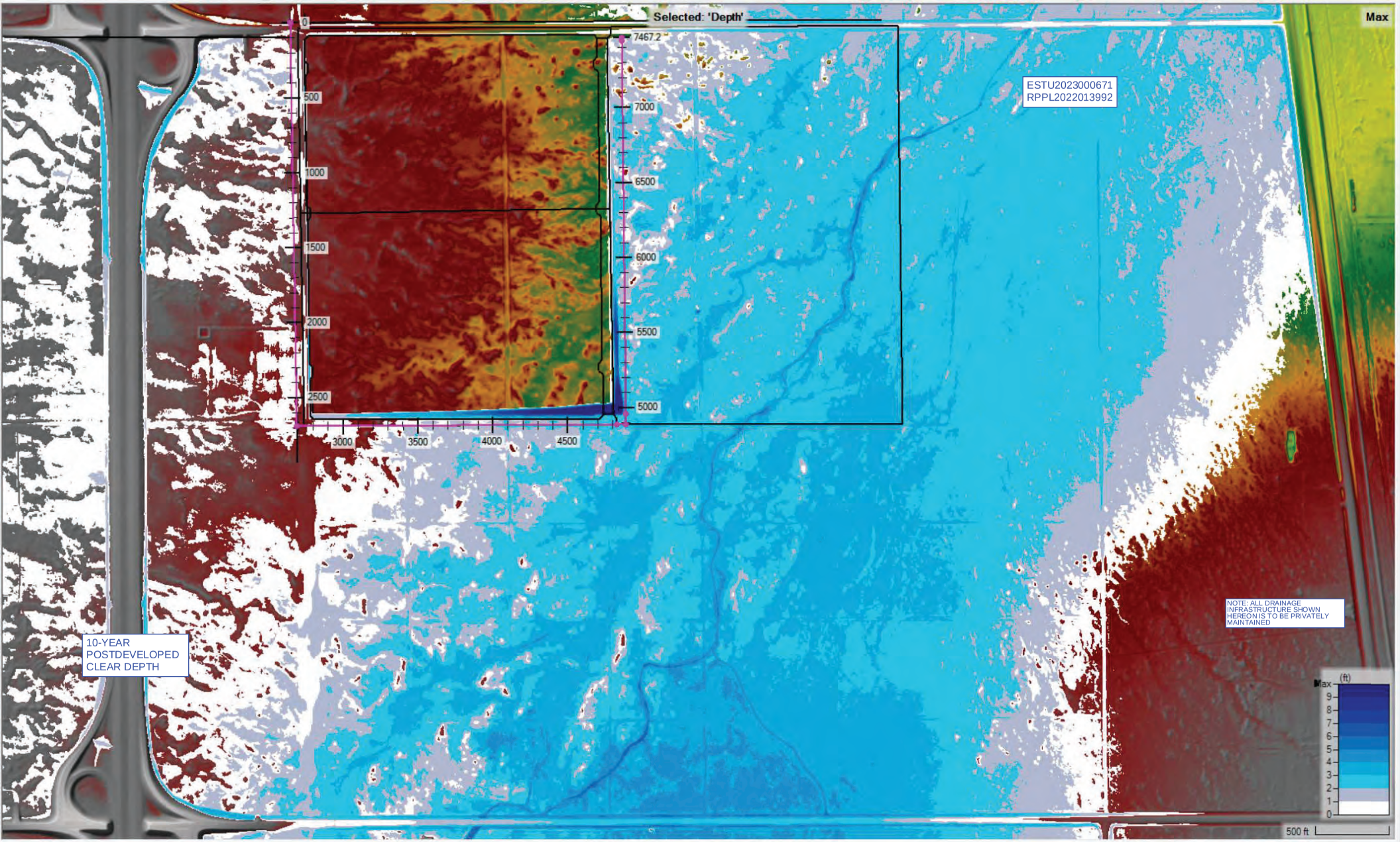

Selected: 'Velocity'
Max
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500
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1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
(ft/s)
15
10
8
6
4
2
0
500 ft
50-YEAR
PREDEVELOPED
CLEAR VELOCITY

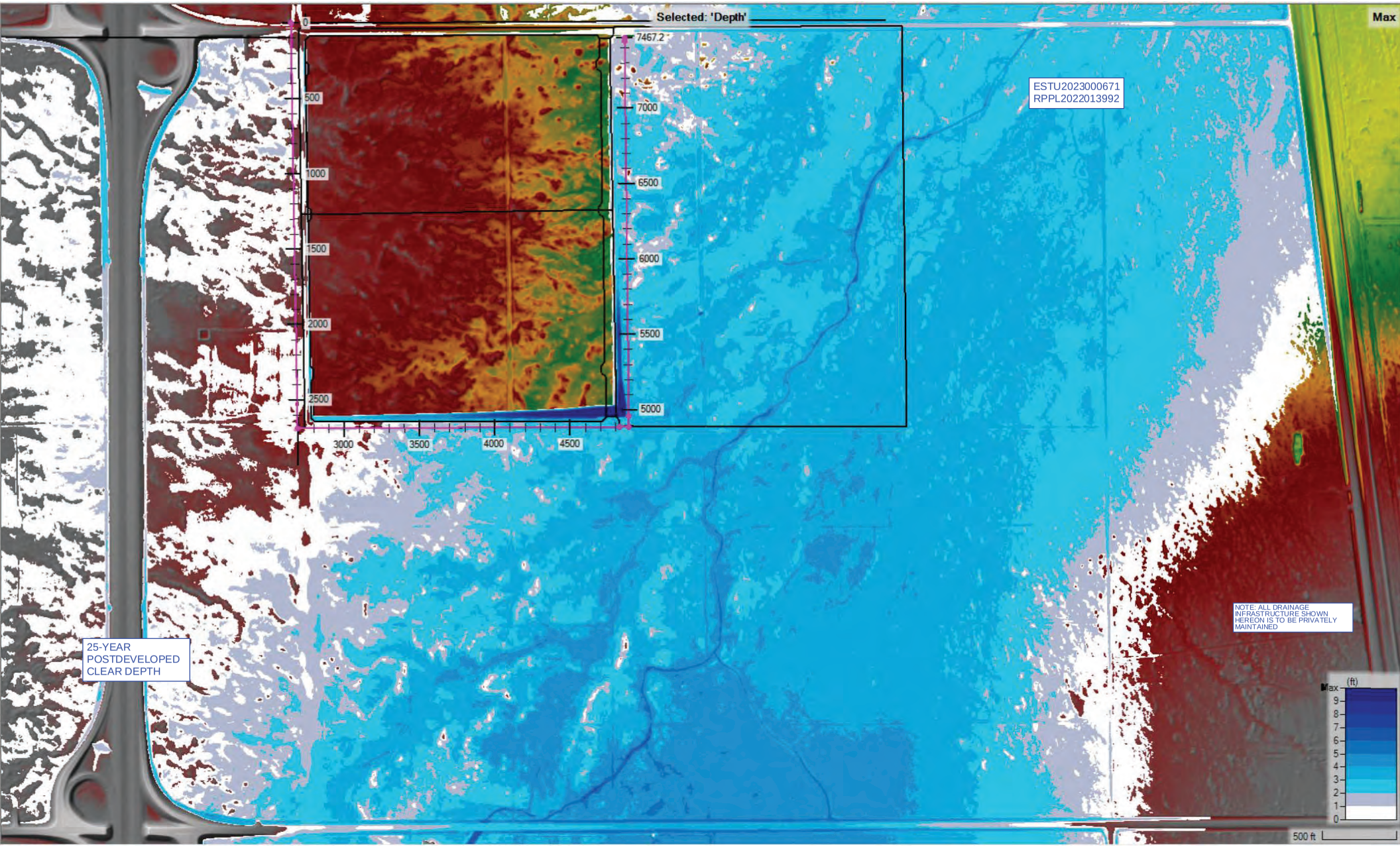

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Max
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1000
1500
2000
2500
3000
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4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
50-YEAR
PREDEVELOPED
BURNED AND
BULKED VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft

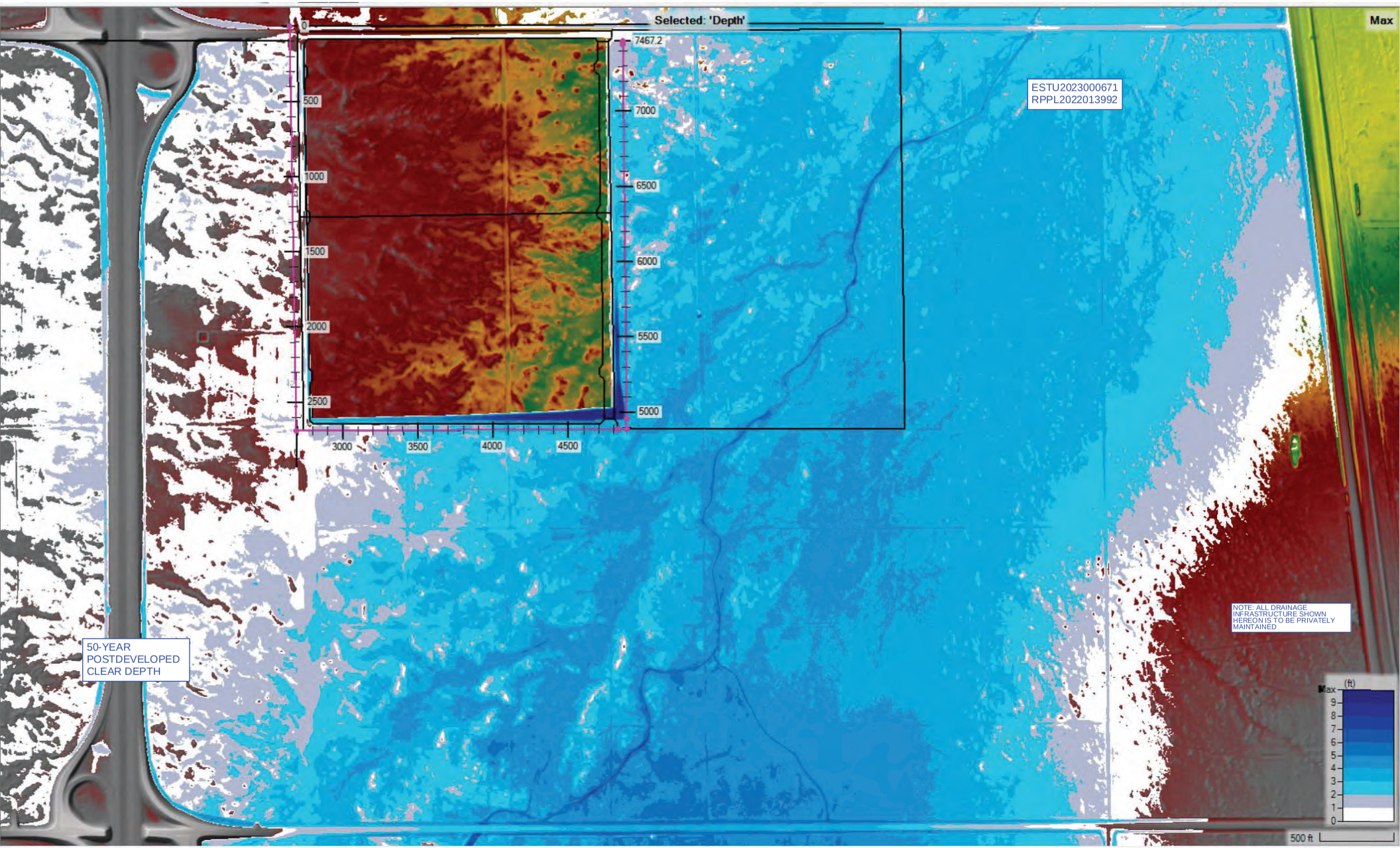
Appendix XXXIV: Postdeveloped Depth Maps

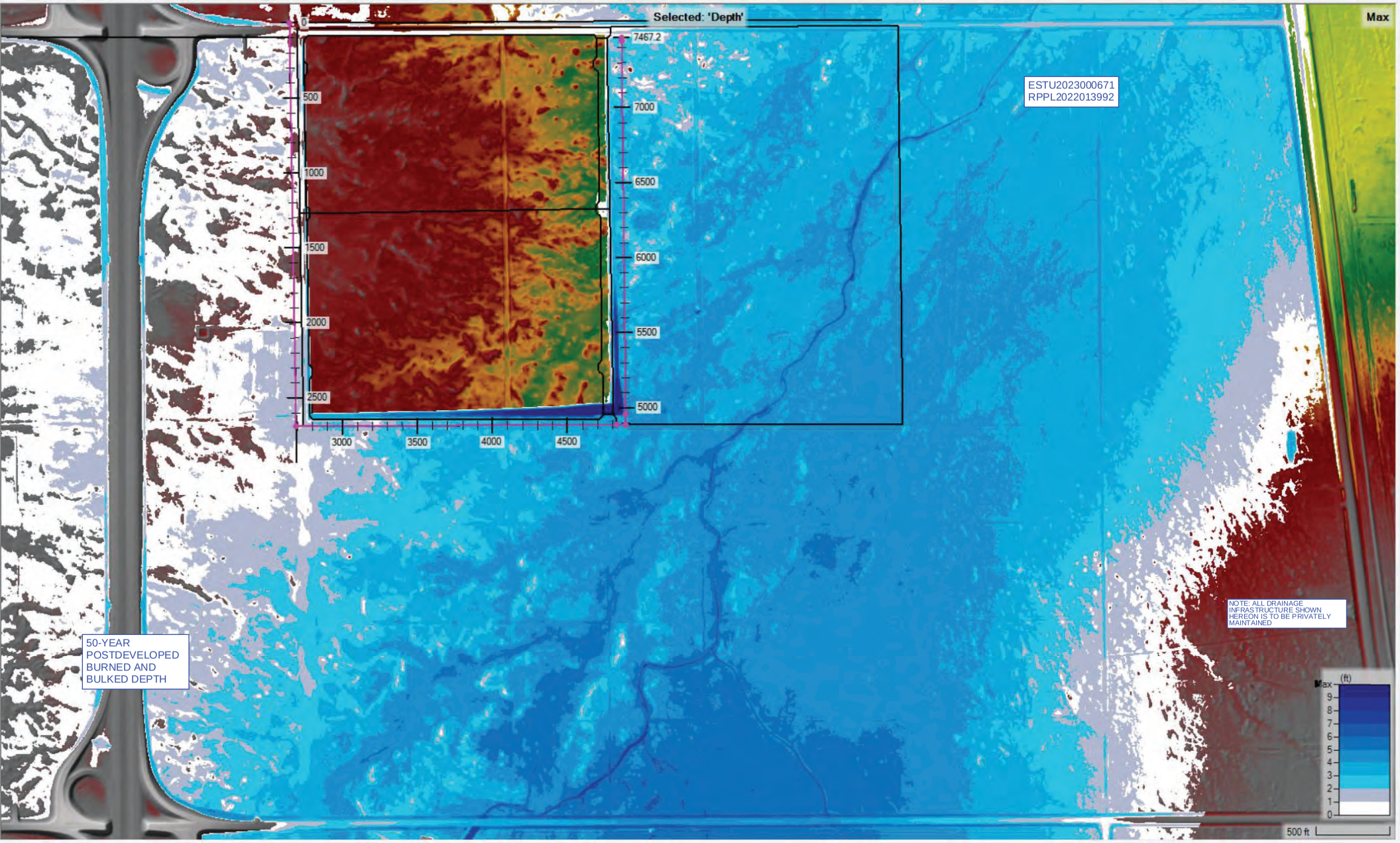

Selected: 'Depth'
Max
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500
1000
1500
2000
2500
3000
3500
4000
4500
7457.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
2-YEAR
POSTDEVELOPED
CLEAR DEPTH
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft


Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
5-YEAR
POSTDEVELOPED
CLEAR DEPTH
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

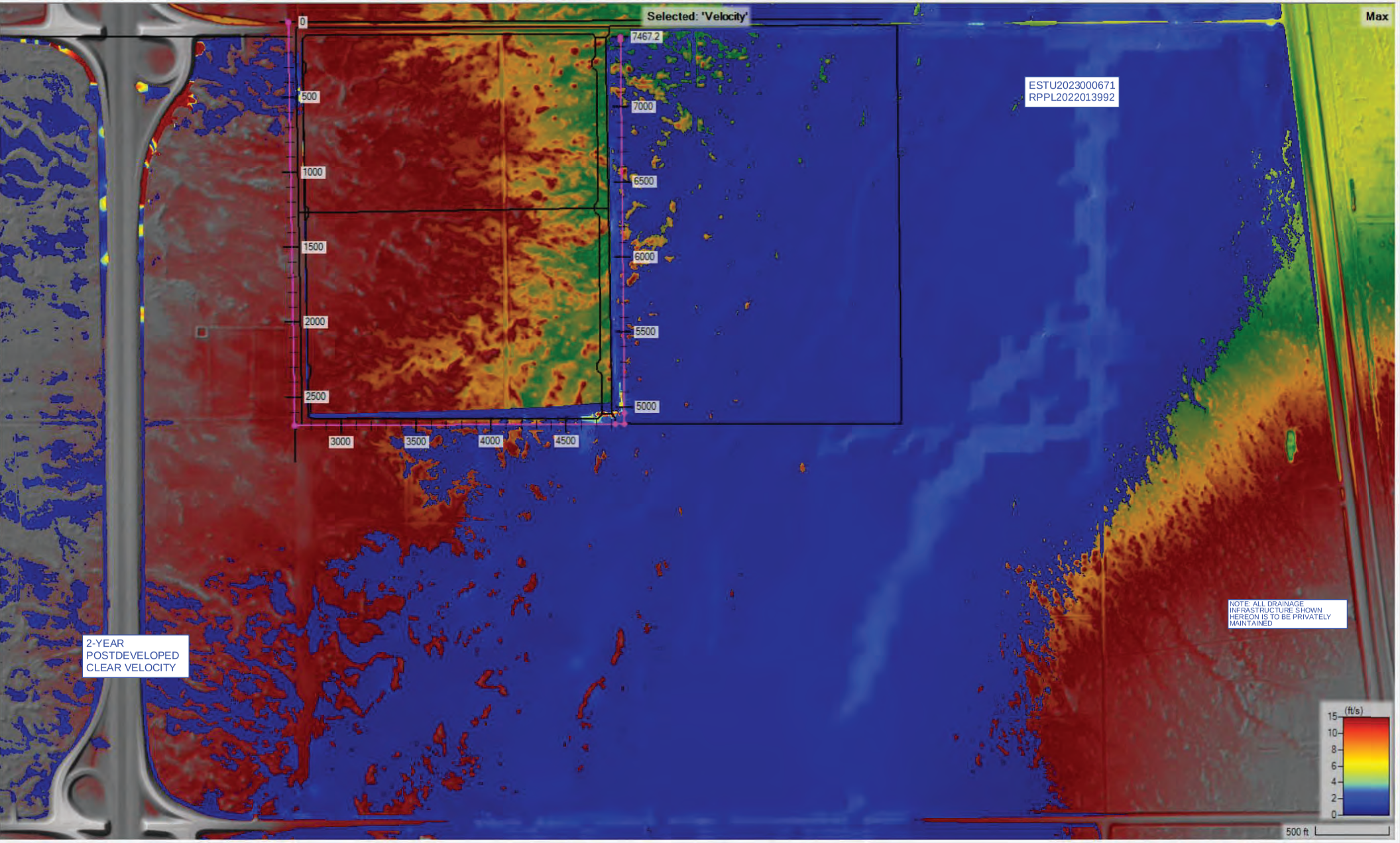

Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
10-YEAR POSTDEVELOPED CLEAR DEPTH
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

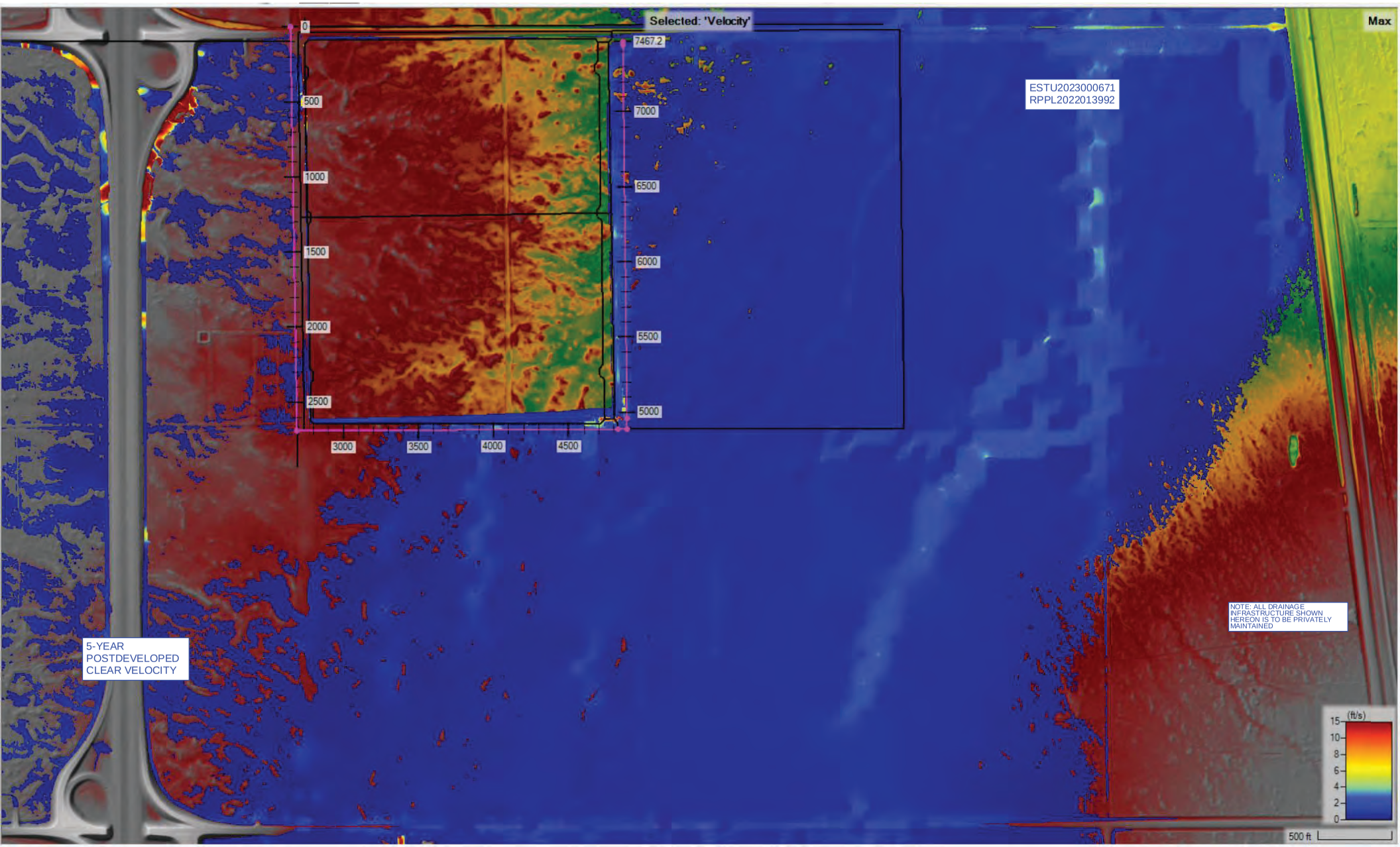

Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
25-YEAR
POSTDEVELOPED
CLEAR DEPTH
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

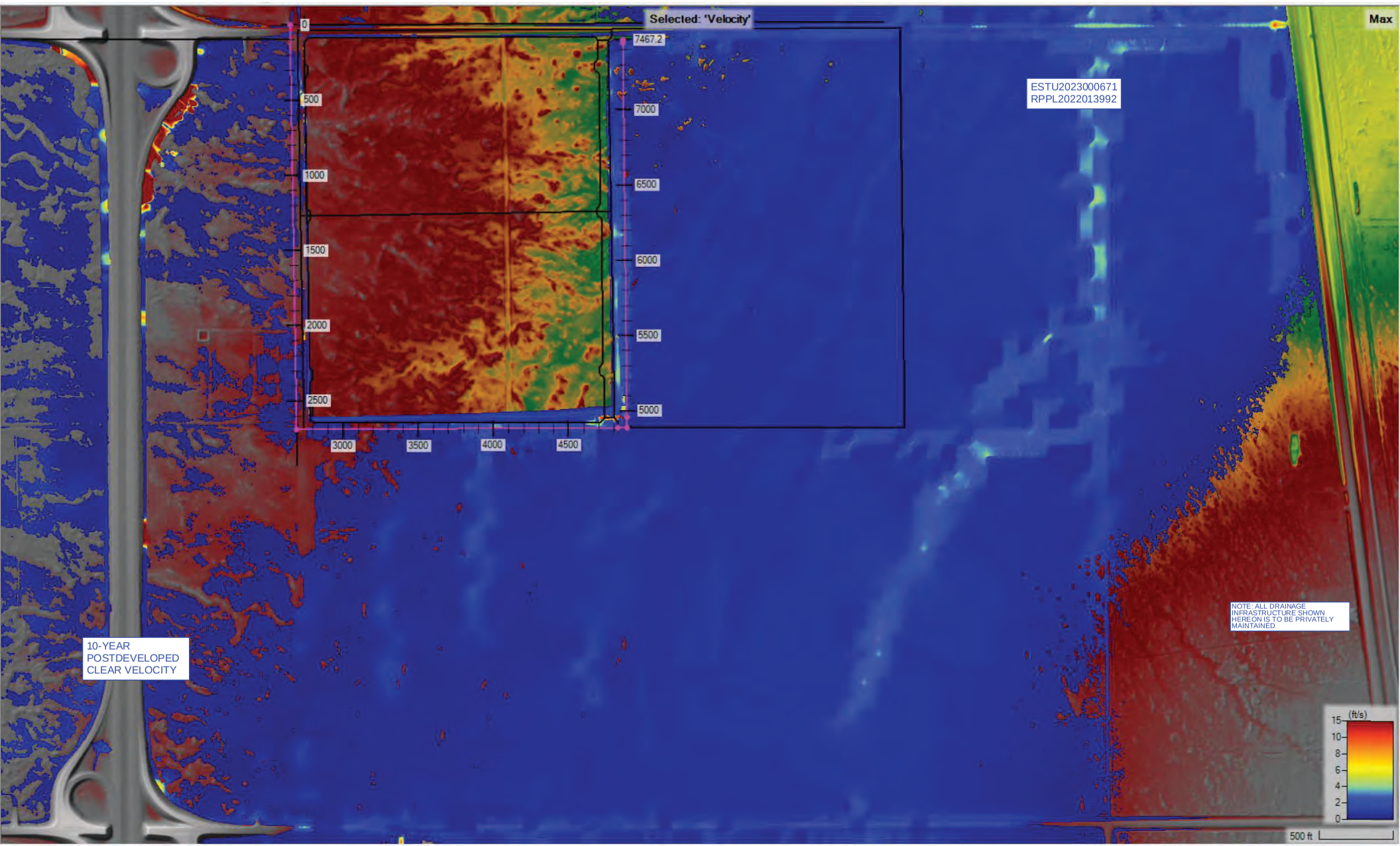

Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
50-YEAR
POSTDEVELOPED
CLEAR DEPTH
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
(ft)
Max
9
8
7
6
5
4
3
2
1
0
500 ft

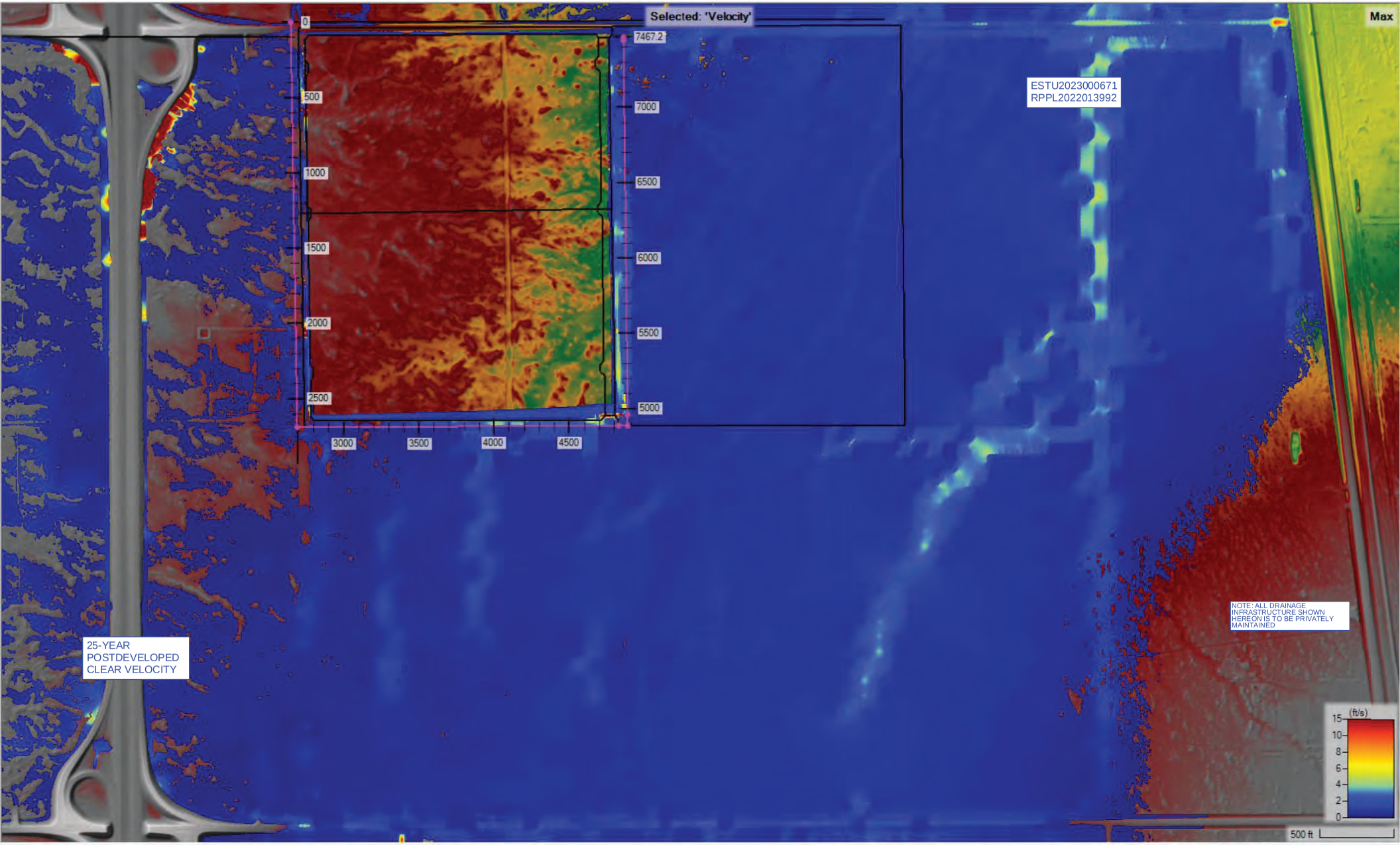

Selected: 'Depth'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
50-YEAR POSTDEVELOPED BURNED AND BULKED DEPTH
Max
(ft)
9
8
7
6
5
4
3
2
1
0
500 ft

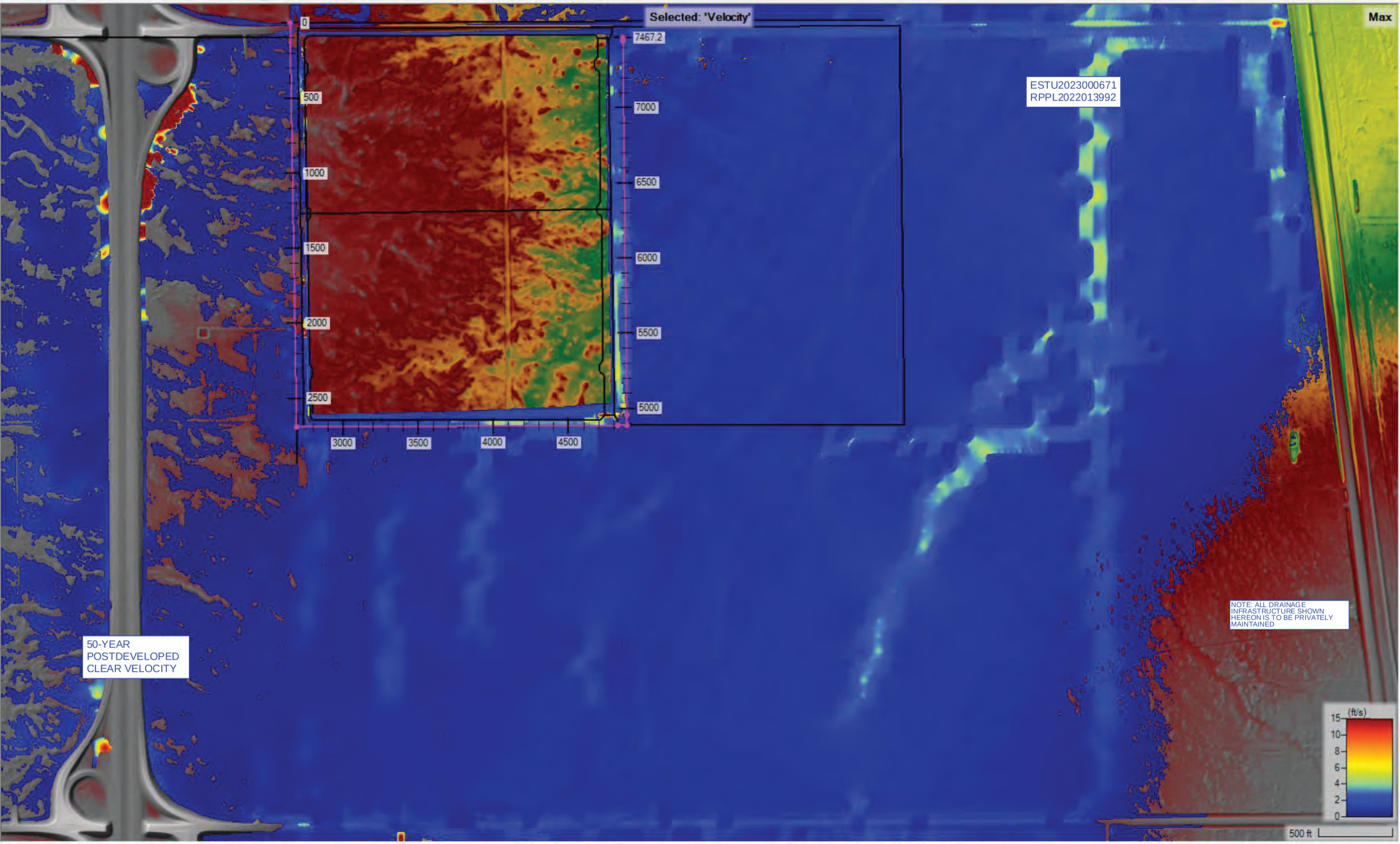
Appendix XXXV: Postdeveloped Velocity Maps

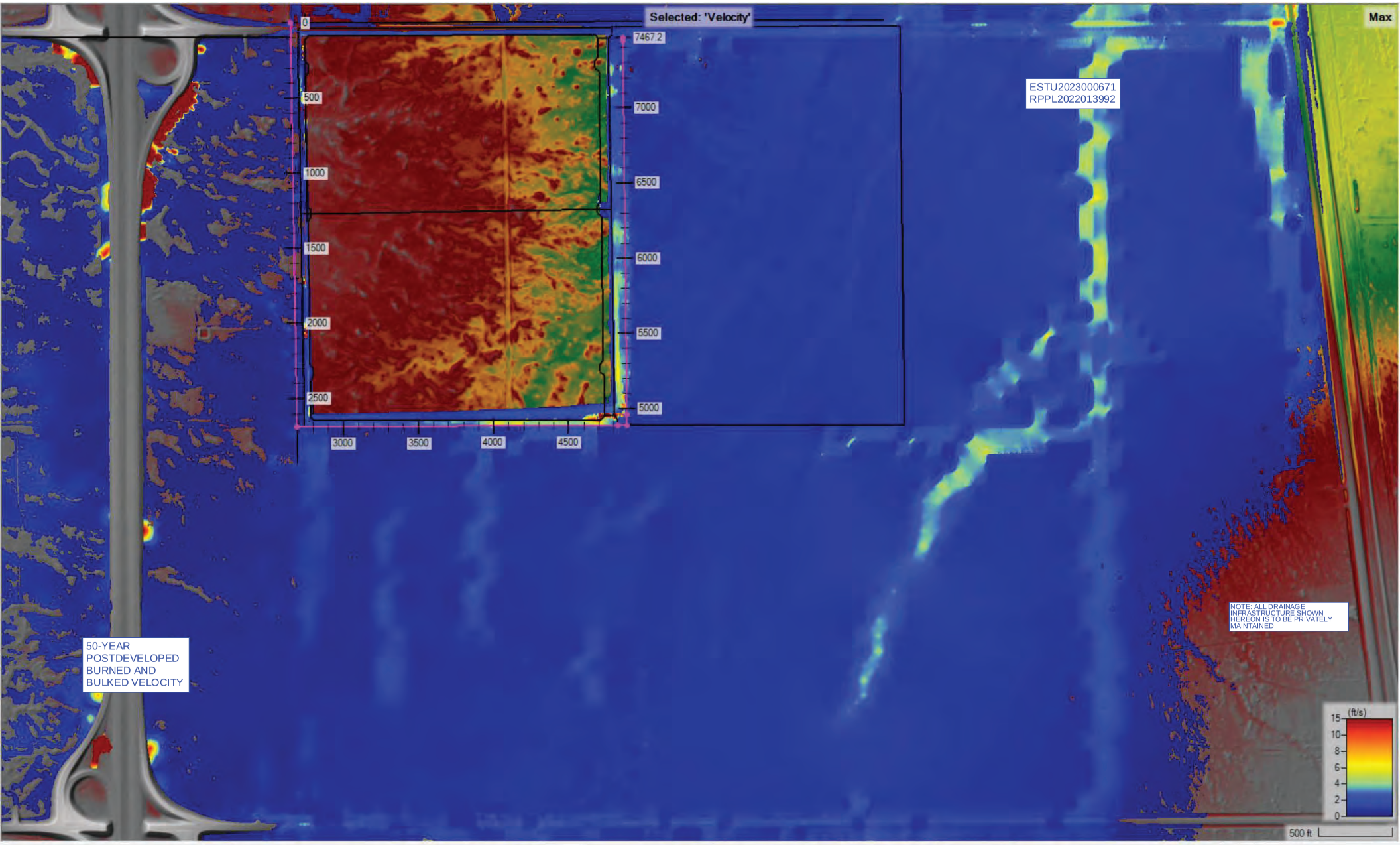

Selected: 'Velocity'
Max
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1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
2-YEAR POSTDEVELOPED CLEAR VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft


Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
5-YEAR
POSTDEVELOPED
CLEAR VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft


Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
10-YEAR
POSTDEVELOPED
CLEAR VELOCITY
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
(ft/s)
15
10
8
6
4
2
0
500 ft


Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
25-YEAR POSTDEVELOPED CLEAR VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft


Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
50-YEAR POSTDEVELOPED CLEAR VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft


Selected: 'Velocity'
Max
0
500
1000
1500
2000
2500
3000
3500
4000
4500
7467.2
7000
6500
6000
5500
5000
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
50-YEAR POSTDEVELOPED BURNED AND BULKED VELOCITY
(ft/s)
15
10
8
6
4
2
0
500 ft

Appendix XXXVI: Postdeveloped Comparison Tables

ESTU2023000671
RPPL2022013992

Station (ft)	2yr 24hr Pre Velocity '02SEP2008 23:00:00' (feet/sec)	2yr 24hr Post No Sed Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.0	0.0
400.57	0.0	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.0
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.0	0.0
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.0
3000.653	0.0	0.0
3200.228	0.0	0.0
3200.671	0.0	0.0
3200.77	0.0	0.0
3400.543	0.0	0.0
3600.316	0.0	0.0
3800.09	0.0	0.0
4000.746	0.0	0.0
4200.714	0.0	0.0
4400.242	0.0	0.0
4600.802	0.0	0.0
4800.672	0.1	0.2
5000.023	0.0	0.0
5200.246	0.0	0.0
5400.009	0.0	0.0
5600.691	0.0	0.0
5800.161	0.0	0.0
6000.045	0.0	0.0
6200.762	0.0	0.0
6401.583	0.0	0.0
6600.082	0.0	0.0
6800.18	0.0	0.0
7001.965	0.0	0.0
7200.119	0.0	0.0
7401.131	0.0	0.0

ESTU2023000671
RPPL2022013992

Station (ft)	2yr 24hr Pre Depth 'Max' (feet)	2yr 24hr Post No Sed Depth 'Max' (feet)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.3	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.0
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.0	0.0
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.0
3000.653	0.0	0.0
3200.228	0.0	0.0
3200.671	0.0	0.0
3200.77	0.0	0.0
3400.543	0.1	0.0
3600.316	0.4	0.3
3800.09	0.5	0.4
4000.746	0.5	0.3
4200.714	0.5	0.1
4400.242	1.2	0.9
4600.802	1.2	0.8
4800.672	1.4	1.1
5000.023	1.9	1.7
5200.246	0.0	1.1
5400.009	1.1	1.1
5600.691	1.4	1.5
5800.161	0.0	0.1
6000.045	0.5	0.7
6200.762	0.0	0.0
6401.583	0.0	0.0
6600.082	0.0	0.0
6800.18	0.5	0.8
7001.965	0.0	0.9
7200.119	0.3	0.5
7401.131	0.0	0.0

ESTU2023000671
RPPL2022013992

Station (ft)	5yr 24hr Post Velocity '02SEP2008 23:00:00' (feet/sec)	5yr 24hr Pre Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.1	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.0
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.0	0.0
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.0
3000.653	0.0	0.0
3200.228	0.0	0.0
3200.671	0.0	0.0
3200.77	0.0	0.0
3400.543	0.0	0.0
3600.316	0.0	0.0
3800.09	0.0	0.0
4000.746	0.0	0.0
4200.714	0.0	0.0
4400.242	0.2	0.1
4600.802	0.2	0.9
4800.672	0.2	0.2
5000.023	0.1	0.1
5200.246	0.0	0.1
5400.009	0.1	0.1
5600.691	0.1	0.2
5800.161	0.0	0.0
6000.045	0.0	0.6
6200.762	0.0	0.0
6401.583	0.0	0.0
6600.082	0.0	0.0
6800.18	0.0	0.0
7001.965	0.0	0.0
7200.119	0.0	0.0
7401.131	0.4	0.0

ESTU2023000671
RPPL2022013992

Station (ft)	5yr 24hr Post Depth 'Max' (feet)	5yr 24hr Pre Depth 'Max' (feet)
0	0.0	0.0
200.042	0.3	0.2
400.57	0.5	0.0
599.67	0.2	0.2
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.0
1400.34	0.2	0.1
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.0	0.0
2400.894	0.0	0.1
2599.266	0.0	0.0
2800.634	0.0	0.0
3000.653	0.0	0.0
3200.228	0.0	0.0
3200.671	0.0	0.0
3200.77	0.0	0.0
3400.543	1.0	0.7
3600.316	1.4	0.9
3800.09	1.5	1.1
4000.746	1.5	1.1
4200.714	1.3	1.0
4400.242	2.1	1.8
4600.802	2.0	1.7
4800.672	2.2	2.0
5000.023	2.7	2.6
5200.246	0.0	2.0
5400.009	1.9	1.9
5600.691	2.2	2.3
5800.161	0.8	0.8
6000.045	1.4	1.3
6200.762	0.6	0.6
6401.583	0.4	0.6
6600.082	0.0	0.0
6800.18	1.4	1.6
7001.965	0.0	1.6
7200.119	1.1	1.1
7401.131	0.2	0.5

ESTU2023000671
RPPL2022013992

Station (ft)	010yr 24hr Post Depth 'Max' (feet)	10yr 24hr Pre Depth 'Max' (feet)
0	0.0	0.0
200.042	0.3	0.4
400.57	0.0	0.7
599.67	0.3	0.3
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.2	0.2
1400.34	0.5	0.4
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.2	0.1
2400.894	0.3	0.1
2599.266	0.2	0.0
2800.634	0.3	0.1
3000.653	0.6	0.4
3200.228	0.1	0.4
3200.671	0.1	0.4
3200.77	0.1	0.4
3400.543	1.2	1.5
3600.316	1.5	1.9
3800.09	1.6	2.0
4000.746	1.6	2.0
4200.714	1.6	1.8
4400.242	2.3	2.6
4600.802	2.3	2.5
4800.672	2.5	2.7
5000.023	3.1	3.2
5200.246	2.5	0.0
5400.009	2.4	2.3
5600.691	2.7	2.6
5800.161	1.2	1.2
6000.045	1.7	1.8
6200.762	1.0	1.0
6401.583	1.0	0.9
6600.082	0.3	0.0
6800.18	1.9	1.8
7001.965	2.0	0.0
7200.119	1.5	1.4
7401.131	0.9	0.6

ESTU2023000671
RPPL2022013992

Station (ft)	10yr 24hr Pre Velocity '02SEP2008 23:00:00' (feet/sec)	10-yr 24-hr Post No Sed Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.1	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.0
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.3	0.1
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.1
3000.653	0.0	0.0
3200.228	0.0	0.1
3200.671	0.0	0.1
3200.77	0.0	0.1
3400.543	0.0	0.0
3600.316	0.0	0.1
3800.09	0.0	0.0
4000.746	0.2	0.2
4200.714	0.0	0.0
4400.242	0.1	0.3
4600.802	0.3	1.3
4800.672	0.3	0.3
5000.023	0.2	0.1
5200.246	0.0	0.3
5400.009	0.2	0.3
5600.691	0.2	0.3
5800.161	0.0	0.0
6000.045	0.0	0.8
6200.762	0.0	0.0
6401.583	0.0	0.0
6600.082	0.0	0.0
6800.18	0.0	0.1
7001.965	0.0	0.0
7200.119	0.0	0.0
7401.131	0.4	0.0

ESTU2023000671
RPPL2022013992

Station (ft)	25yr 24hr Post Depth 'Max' (feet)	25yr 24hr Pre Depth 'Max' (feet)
0	0.0	0.0
200.042	0.4	0.5
400.57	0.0	0.8
599.67	0.4	0.5
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.2	0.2
1400.34	0.5	0.6
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.4	0.4
2400.894	0.4	0.4
2599.266	0.3	0.5
2800.634	0.7	1.0
3000.653	1.0	1.3
3200.228	0.7	1.0
3200.671	0.8	1.0
3200.77	0.8	1.0
3400.543	1.8	2.1
3600.316	2.2	2.4
3800.09	2.3	2.6
4000.746	2.3	2.5
4200.714	2.2	2.4
4400.242	3.0	3.2
4600.802	2.9	3.1
4800.672	3.1	3.3
5000.023	3.7	3.7
5200.246	3.1	0.0
5400.009	2.9	2.9
5600.691	3.2	3.2
5800.161	1.7	1.7
6000.045	2.1	2.2
6200.762	1.5	1.5
6401.583	1.5	1.4
6600.082	0.8	0.0
6800.18	2.4	2.2
7001.965	2.4	0.0
7200.119	1.8	1.8
7401.131	1.3	1.1

ESTU2023000671
RPPL2022013992

Station (ft)	25yr 24hr Pre Velocity '02SEP2008 23:00:00' (feet/sec)	25yr 24hr Post No Sed Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.1	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.1	0.0
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.4	0.1
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.1
3000.653	0.0	0.0
3200.228	0.1	0.2
3200.671	0.1	0.2
3200.77	0.1	0.2
3400.543	0.0	0.0
3600.316	0.0	0.0
3800.09	0.1	0.1
4000.746	0.3	1.4
4200.714	0.2	0.4
4400.242	0.2	0.5
4600.802	0.4	1.2
4800.672	0.3	0.4
5000.023	0.3	0.2
5200.246	0.0	0.6
5400.009	0.3	0.6
5600.691	0.2	0.6
5800.161	0.1	0.4
6000.045	0.0	1.1
6200.762	0.4	1.4
6401.583	0.0	0.3
6600.082	0.0	0.0
6800.18	0.0	0.1
7001.965	0.0	0.0
7200.119	0.0	0.0
7401.131	0.4	0.5

ESTU2023000671
RPPL2022013992

Station (ft)	050yr 24hr post Depth 'Max' (feet)	050yr 24hr pre Depth 'Max' (feet)
0	0.0	0.0
200.042	0.6	0.6
400.57	0.0	0.8
599.67	0.5	0.5
800.056	0.0	0.0
999.161	0.1	0.0
1199.542	0.3	0.3
1400.34	0.6	0.6
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.7	0.8
2400.894	0.7	0.9
2599.266	0.7	0.8
2800.634	1.1	1.3
3000.653	1.5	1.6
3200.228	1.2	1.3
3200.671	1.2	1.3
3200.77	1.2	1.3
3400.543	2.2	2.4
3600.316	2.6	2.8
3800.09	2.7	2.9
4000.746	2.6	2.9
4200.714	2.6	2.7
4400.242	3.3	3.5
4600.802	3.2	3.4
4800.672	3.5	3.6
5000.023	4.1	4.1
5200.246	3.4	0.0
5400.009	3.2	3.2
5600.691	3.5	3.4
5800.161	2.0	2.0
6000.045	2.4	2.5
6200.762	1.8	1.8
6401.583	1.7	1.7
6600.082	1.0	0.0
6800.18	2.6	2.5
7001.965	2.6	0.0
7200.119	2.0	2.0
7401.131	1.5	1.3

ESTU2023000671
RPPL2022013992

Station (ft)	050yr 24hr pre Velocity '02SEP2008 23:00:00' (feet/sec)	050yr 24hr Post No Sed Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.1	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.0	0.1
1400.34	0.1	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.4	0.1
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.1
3000.653	0.0	0.0
3200.228	0.1	0.3
3200.671	0.1	0.3
3200.77	0.1	0.3
3400.543	0.0	0.0
3600.316	0.0	0.2
3800.09	0.2	0.9
4000.746	0.5	1.6
4200.714	0.3	0.4
4400.242	0.4	0.5
4600.802	0.5	1.2
4800.672	0.4	0.4
5000.023	0.3	0.3
5200.246	0.0	0.9
5400.009	0.3	0.8
5600.691	0.3	0.8
5800.161	0.2	0.8
6000.045	0.1	1.4
6200.762	0.6	1.8
6401.583	0.1	0.6
6600.082	0.0	0.0
6800.18	0.1	0.1
7001.965	0.0	0.0
7200.119	0.1	0.1
7401.131	0.4	0.5

ESTU2023000671
RPPL2022013992

Station (ft)	050yr 24hr Post BB Depth 'Max' (feet)	50yr 24hr Pre BB Depth 'Max' (feet)
0	0.0	0.0
200.042	0.6	0.6
400.57	0.0	0.9
599.67	0.6	0.6
800.056	0.0	0.0
999.161	0.2	0.0
1199.542	0.3	0.3
1400.34	0.6	0.6
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.5	0.4
2200.102	1.5	1.4
2400.894	1.5	1.5
2599.266	1.4	1.5
2800.634	1.9	1.9
3000.653	2.2	2.2
3200.228	1.9	1.9
3200.671	1.9	1.9
3200.77	1.9	1.9
3400.543	2.9	3.0
3600.316	3.3	3.3
3800.09	3.3	3.5
4000.746	3.3	3.4
4200.714	3.2	3.3
4400.242	4.0	4.0
4600.802	3.9	4.0
4800.672	4.1	4.1
5000.023	4.7	4.6
5200.246	4.0	0.0
5400.009	3.8	3.7
5600.691	4.1	4.0
5800.161	2.5	2.5
6000.045	2.9	3.0
6200.762	2.3	2.3
6401.583	2.2	2.2
6600.082	1.5	0.0
6800.18	3.1	3.0
7001.965	3.0	0.0
7200.119	2.4	2.4
7401.131	1.8	1.8

ESTU2023000671
RPPL2022013992

Station (ft)	50yr 24hr Pre BB Velocity '02SEP2008 23:00:00' (feet/sec)	No Sed 050yr 24hr Post BB Velocity '02SEP2008 23:00:00' (feet/sec)
0	0.0	0.0
200.042	0.1	0.1
400.57	0.2	0.0
599.67	0.1	0.1
800.056	0.0	0.0
999.161	0.0	0.0
1199.542	0.1	0.1
1400.34	0.0	0.0
1600.679	0.0	0.0
1800.295	0.0	0.0
2000.418	0.0	0.0
2200.102	0.5	0.2
2400.894	0.0	0.0
2599.266	0.0	0.0
2800.634	0.0	0.1
3000.653	0.0	0.0
3200.228	0.1	0.3
3200.671	0.1	0.3
3200.77	0.1	0.3
3400.543	0.0	0.0
3600.316	0.1	0.3
3800.09	0.2	1.1
4000.746	0.5	1.7
4200.714	0.3	0.4
4400.242	0.5	0.6
4600.802	0.6	1.2
4800.672	0.4	0.4
5000.023	0.4	0.3
5200.246	0.0	1.0
5400.009	0.4	0.9
5600.691	0.3	0.9
5800.161	0.2	0.9
6000.045	0.1	1.5
6200.762	0.6	1.9
6401.583	0.1	0.7
6600.082	0.0	0.0
6800.18	0.1	0.1
7001.965	0.0	0.1
7200.119	0.1	0.1
7401.131	0.4	0.5

Appendix XXXVII: LA County Flood Insurance Study

ESTU2023000671
RPPL2022013992

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in this FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections, and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NVNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910–3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713–3242**, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later and from National Geospatial-Intelligence Agency imagery produced at a scale of 1:4,000 from photography dated 2003 or later.

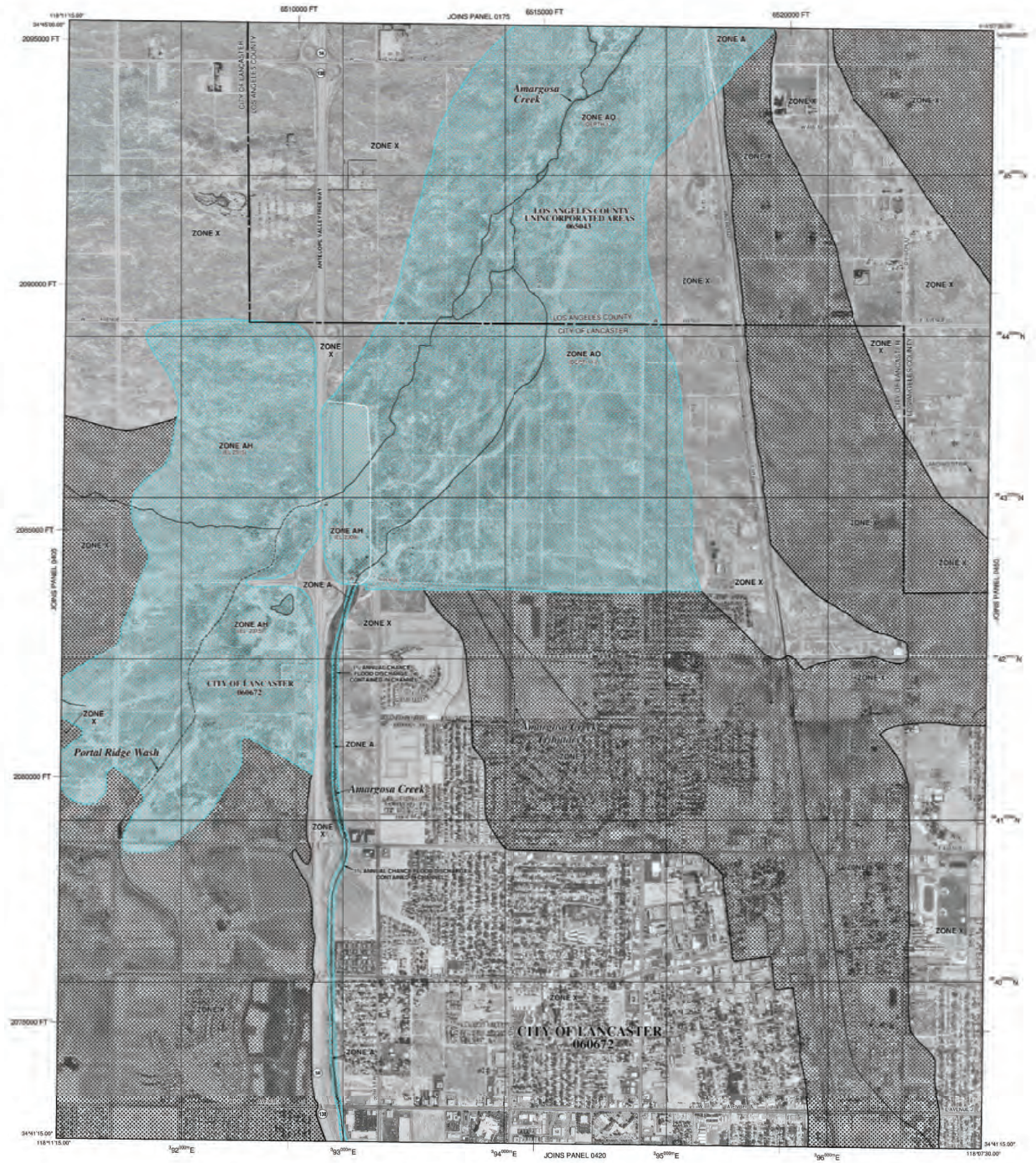
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.
ZONE AE — Base Flood Elevations determined.
ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 — Area to be protected from 1% annual chance flood by a federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

- A — A — Cross section line
- B — B — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 5579000 m N — 1000-meter Universal Transverse Mercator grid values, zone 11
- 6000000 FT — 5000-foot grid ticks: California Coordinate System, V zone (FIPSZONE 0405), Lambert Conformal Conic
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 26, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For communities' map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'
450 0 1000 2000 FEET
150 0 300 600 METERS

PANEL 0410F

FIRM
FLOOD INSURANCE RATE MAP
LOS ANGELES COUNTY, CALIFORNIA AND INCORPORATED AREAS

PANEL 410 OF 2350
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LOS ANGELES COUNTY	065043	0410	F
LANCASTER, CITY OF	060672	0410	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06037C0410F
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

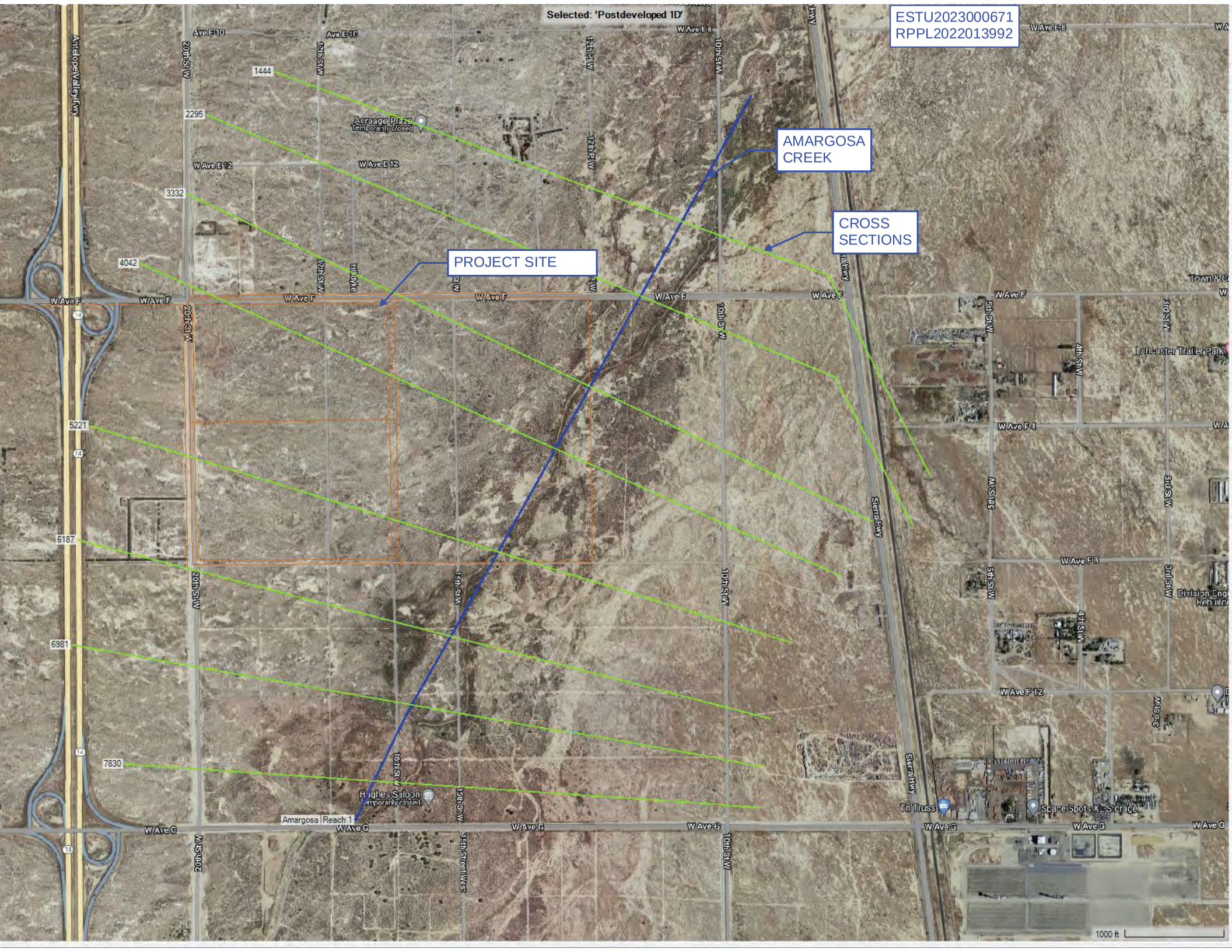
NATIONAL FLOOD INSURANCE PROGRAM

ESTU2023000671
RPPL2022013992

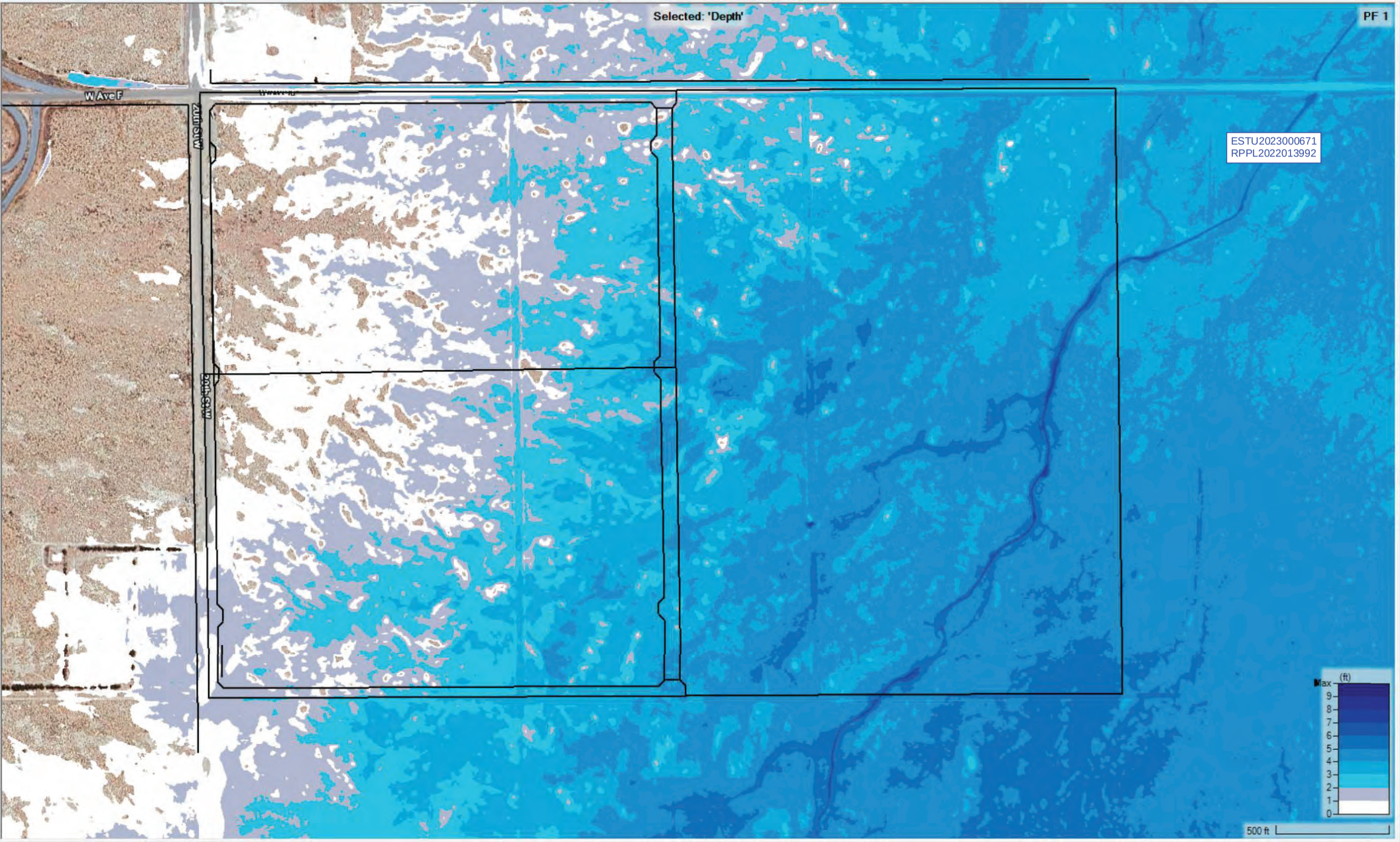
Table 10: Summary of Discharges

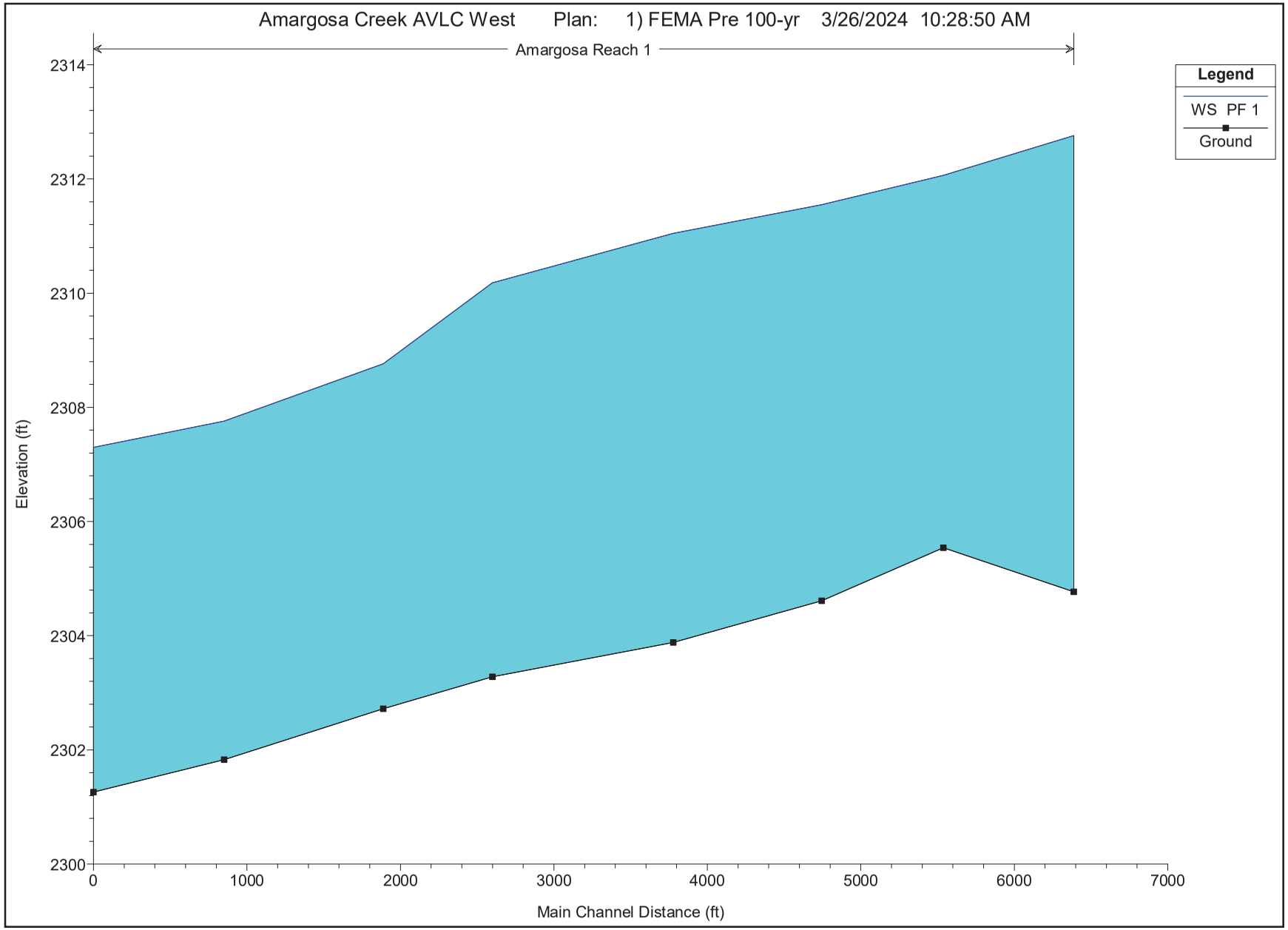
Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)					
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance Existing	1% Annual Chance Future	0.2% Annual Chance
Acton Canyon	At confluence with Santa Clara River	20.9	900	*	2,750	4,080	*	9,050
Acton Canyon	Upstream of confluence with Escondido Canyon Creek	7.5	370	*	1,130	1,670	*	3,700
Agua Dulce Canyon Creek	At confluence with Santa Clara River	29.5	670	*	2,030	3,010	*	6,680
Agua Dulce Canyon Creek	At Sierra Highway	15.6	390	*	1,190	1,770	*	3,930
Agua Dulce Canyon Creek	At Agua Dulce Canyon Road	*	650	*	1,970	2,920	*	6,480
Aliso Canyon Creek	Approximately 0.9 miles upstream of Aliso Canyon Road	*	930	*	2,840	4,210	*	9,340
Aliso Canyon Creek	At Aliso Canyon Road	*	940	*	2,880	4,270	*	9,470
Aliso Canyon Creek	At confluence with Santa Clara River	*	1,030	*	3,160	4,680	*	10,380
Amargosa Creek	East of Antelope Valley Freeway north of Avenue H	206	3,000	*	9,000	13,000	*	30,000
Amargosa Creek	West of Antelope Valley Freeway north of Avenue H	147	2,000	*	5,600	8,400	*	18,000
Amargosa Creek	Approximately midway between 20th Street West and 10th Street West	32.7	1,800	*	3,300	5,000	*	10,100

Appendix XXXVIII: HEC-RAS One-Dimensional Flow Geometry


Selected: 'Postdeveloped 1D'
ESTU2023000671
RPPL2022013992
AMARGOSA CREEK
CROSS SECTIONS
PROJECT SITE
1444
2295
3332
4042
5221
6187
6981
7830
W Ave E-10
W Ave E 12
W Ave F
W Ave F 4
W Ave F 8
W Ave F 12
W Ave G
20th St W
17th St W
12th St W
10th St W
5th St W
4th St W
3rd St W
15th St W
16th St W
Antelope Valley Fwy
Sierra Hwy
Acreage Plaza
Temporarily closed
Lancaster Trailer Park
Hughes Saloon
Temporarily closed
Amargosa Reach 1
Tn Truss
Space Spots X Storage
15th Street West
1000 ft

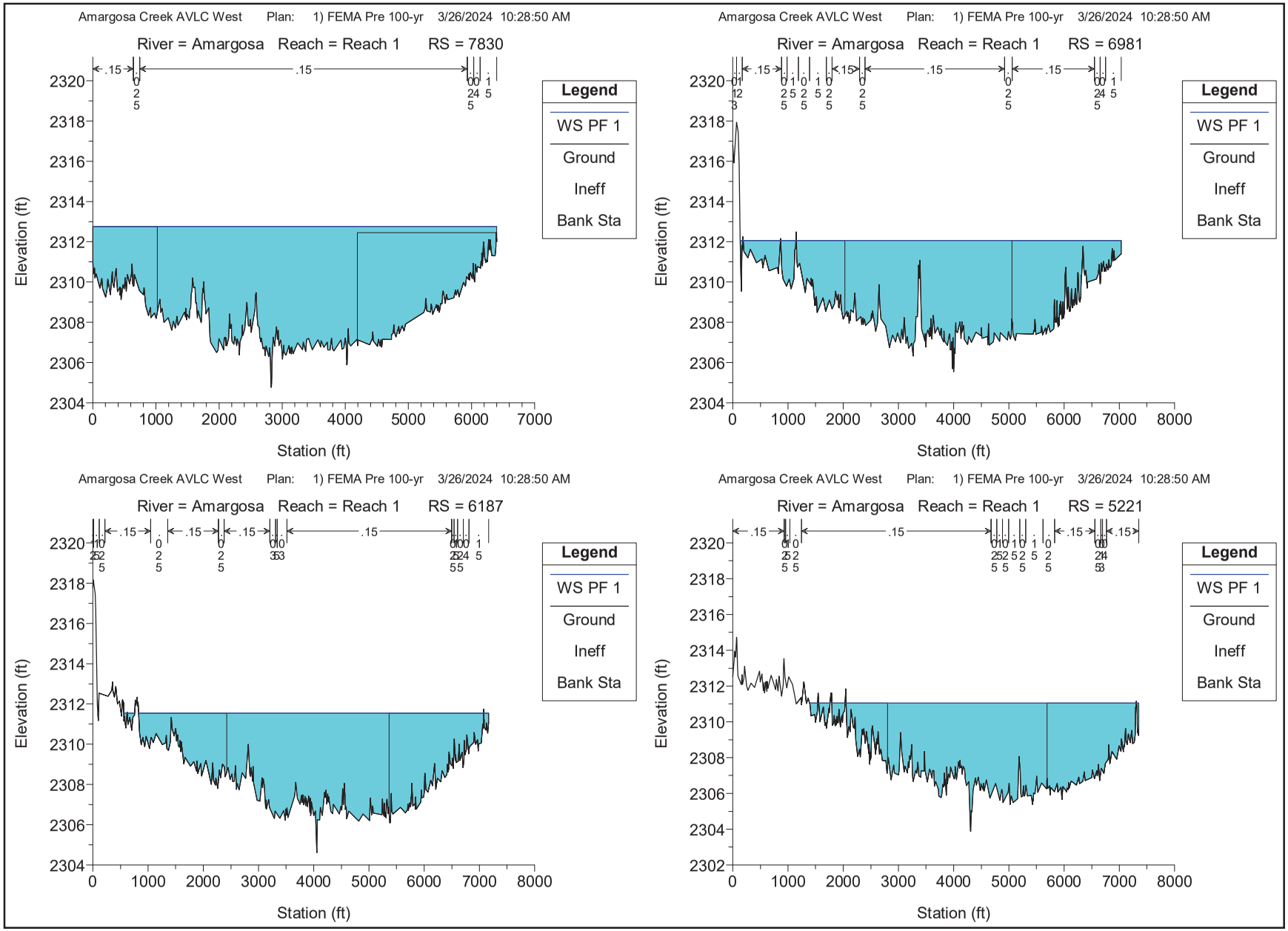
Appendix XXXIX: Hec Ras Predeveloped Depth Map and Tables (100-year FEMA)

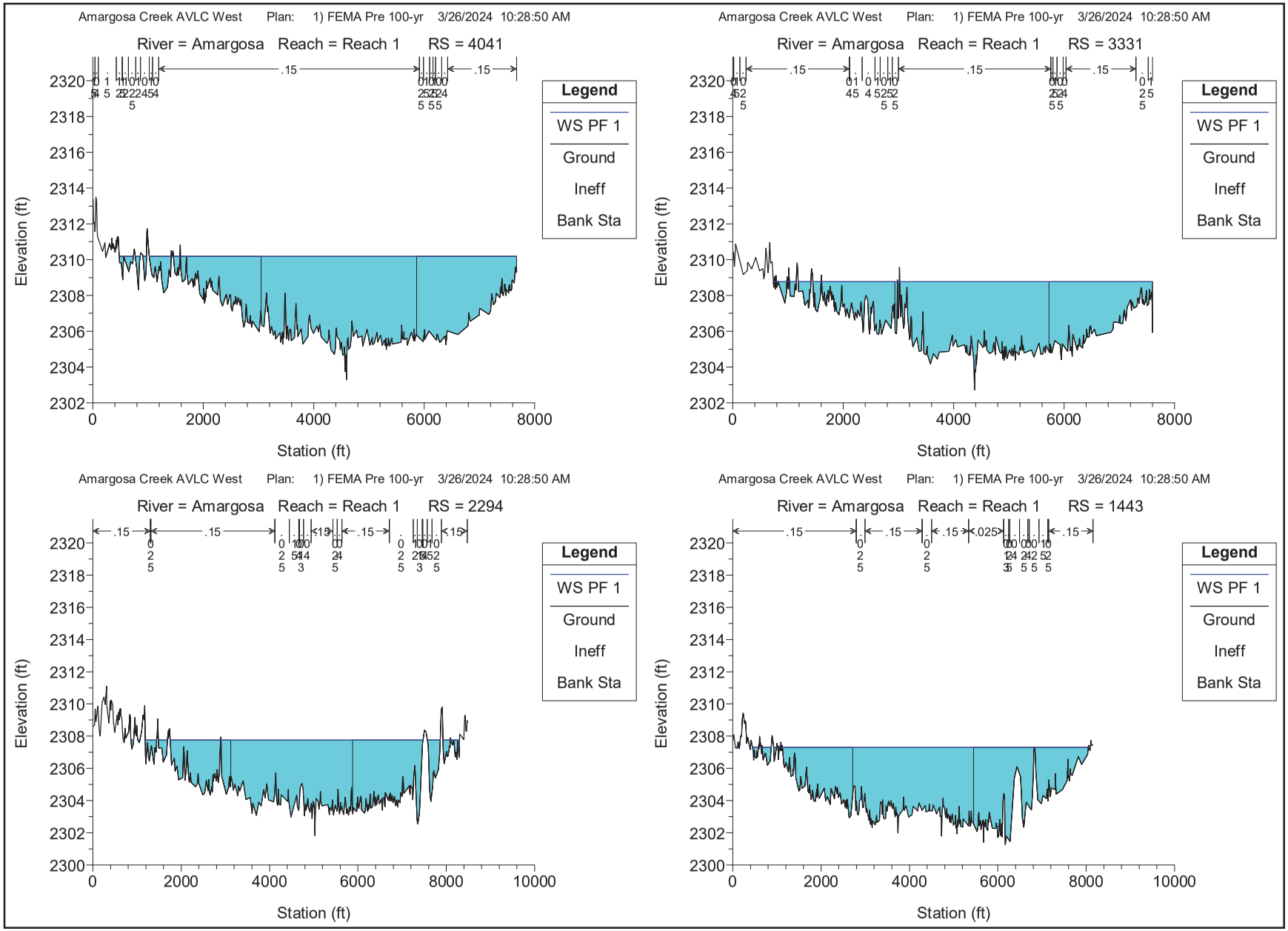

Selected: 'Depth'
PF 1
W Ave F
200th St W
ESTU2023000671
RPPL2022013992
Max
(ft)
9
8
7
6
5
4
3
2
1
0
500 ft


Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
Amargosa Reach 1
Legend
WS PF 1
Ground
Elevation (ft)
2314
2312
2310
2308
2306
2304
2302
2300
0
1000
2000
3000
4000
5000
6000
7000
Main Channel Distance (ft)

HEC-RAS Plan: FEMA Pre 100-yr River: Amargosa Reach: Reach 1 Profile: PF 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	7830	PF 1	13000.00	2304.77	2312.76		2312.77	0.001019	0.74	17680.73	6400.00	0.07
Reach 1	6981	PF 1	13000.00	2305.54	2312.06		2312.08	0.000664	0.96	13580.94	6877.47	0.08
Reach 1	6187	PF 1	13000.00	2304.61	2311.55		2311.57	0.000624	0.99	13128.65	6553.92	0.08
Reach 1	5221	PF 1	13000.00	2303.88	2311.05		2311.06	0.000441	1.02	12749.66	5898.77	0.09
Reach 1	4041	PF 1	13000.00	2303.28	2310.18		2310.20	0.001469	1.03	12609.91	7025.39	0.09
Reach 1	3331	PF 1	13000.00	2302.72	2308.76		2308.79	0.002817	1.30	10002.23	6711.40	0.12
Reach 1	2294	PF 1	13000.00	2301.83	2307.76		2307.78	0.000486	1.24	10505.30	6958.83	0.11
Reach 1	1443	PF 1	13000.00	2301.26	2307.30	2304.10	2307.32	0.000601	1.17	11107.85	7526.60	0.10


Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 7830
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 6981
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 6187
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 5221
Elevation (ft)
Station (ft)
Legend
WS PF 1
Ground
Ineff
Bank Sta


Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 4041
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 3331
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 2294
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Pre 100-yr 3/26/2024 10:28:50 AM
River = Amargosa Reach = Reach 1 RS = 1443
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 7830 Profile: PF 1

E.G. Elev (ft)	2312.77	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.01	Wt. n-Val.		0.150	
W.S. Elev (ft)	2312.76	Reach Len. (ft)	848.90	848.90	848.90
Crit W.S. (ft)		Flow Area (sq ft)		17680.73	
E.G. Slope (ft/ft)	0.001019	Area (sq ft)		29109.59	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6400.00	Top Width (ft)		6400.00	
Vel Total (ft/s)	0.74	Avg. Vel. (ft/s)		0.74	
Max Chl Dpth (ft)	7.99	Hydr. Depth (ft)		3.29	
Conv. Total (cfs)	407285.6	Conv. (cfs)		407285.6	
Length Wtd. (ft)	848.90	Wetted Per. (ft)		5382.83	
Min Ch El (ft)	2304.77	Shear (lb/sq ft)		0.21	
Alpha	1.00	Stream Power (lb/ft s)		0.15	
Frctn Loss (ft)	0.69	Cum Volume (acre-ft)		3222.43	
C & E Loss (ft)	0.00	Cum SA (acres)		981.13	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 6981 Profile: PF 1

E.G. Elev (ft)	2312.08	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.01	Wt. n-Val.		0.109	
W.S. Elev (ft)	2312.06	Reach Len. (ft)	794.20	794.20	794.20
Crit W.S. (ft)		Flow Area (sq ft)		13580.94	
E.G. Slope (ft/ft)	0.000664	Area (sq ft)		23214.14	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6877.47	Top Width (ft)		6877.47	
Vel Total (ft/s)	0.96	Avg. Vel. (ft/s)		0.96	
Max Chl Dpth (ft)	6.52	Hydr. Depth (ft)		4.49	
Conv. Total (cfs)	504651.8	Conv. (cfs)		504651.8	
Length Wtd. (ft)	794.20	Wetted Per. (ft)		3029.01	
Min Ch El (ft)	2305.54	Shear (lb/sq ft)		0.19	
Alpha	1.00	Stream Power (lb/ft s)		0.18	
Frctn Loss (ft)	0.51	Cum Volume (acre-ft)		2712.58	
C & E Loss (ft)	0.00	Cum SA (acres)		851.76	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 6187 Profile: PF 1

E.G. Elev (ft)	2311.57	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.103	
W.S. Elev (ft)	2311.55	Reach Len. (ft)	966.40	966.40	966.40
Crit W.S. (ft)		Flow Area (sq ft)		13128.65	
E.G. Slope (ft/ft)	0.000624	Area (sq ft)		22157.13	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6553.92	Top Width (ft)		6553.92	
Vel Total (ft/s)	0.99	Avg. Vel. (ft/s)		0.99	
Max Chl Dpth (ft)	6.94	Hydr. Depth (ft)		4.46	
Conv. Total (cfs)	520381.3	Conv. (cfs)		520381.3	
Length Wtd. (ft)	966.40	Wetted Per. (ft)		2945.04	
Min Ch El (ft)	2304.61	Shear (lb/sq ft)		0.17	
Alpha	1.00	Stream Power (lb/ft s)		0.17	
Frctn Loss (ft)	0.50	Cum Volume (acre-ft)		2298.97	
C & E Loss (ft)	0.00	Cum SA (acres)		729.31	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 5221 Profile: PF 1

E.G. Elev (ft)	2311.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.083	
W.S. Elev (ft)	2311.05	Reach Len. (ft)	1179.30	1179.30	1179.30
Crit W.S. (ft)		Flow Area (sq ft)		12749.66	
E.G. Slope (ft/ft)	0.000441	Area (sq ft)		20917.75	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	5898.77	Top Width (ft)		5898.77	
Vel Total (ft/s)	1.02	Avg. Vel. (ft/s)		1.02	
Max Chl Dpth (ft)	7.17	Hydr. Depth (ft)		4.42	
Conv. Total (cfs)	619392.4	Conv. (cfs)		619392.4	
Length Wtd. (ft)	1179.30	Wetted Per. (ft)		2888.52	
Min Ch El (ft)	2303.88	Shear (lb/sq ft)		0.12	
Alpha	1.00	Stream Power (lb/ft s)		0.12	
Frctn Loss (ft)	0.87	Cum Volume (acre-ft)		1821.15	
C & E Loss (ft)	0.00	Cum SA (acres)		591.18	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 4041 Profile: PF 1

E.G. Elev (ft)	2310.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.150	
W.S. Elev (ft)	2310.18	Reach Len. (ft)	710.30	710.30	710.30
Crit W.S. (ft)		Flow Area (sq ft)		12609.91	
E.G. Slope (ft/ft)	0.001469	Area (sq ft)		23119.65	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	7025.39	Top Width (ft)		7025.39	
Vel Total (ft/s)	1.03	Avg. Vel. (ft/s)		1.03	
Max Chl Dpth (ft)	6.90	Hydr. Depth (ft)		4.48	
Conv. Total (cfs)	339231.0	Conv. (cfs)		339231.0	
Length Wtd. (ft)	710.30	Wetted Per. (ft)		2817.69	
Min Ch El (ft)	2303.28	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)		0.42	
Frctn Loss (ft)	1.41	Cum Volume (acre-ft)		1225.04	
C & E Loss (ft)	0.00	Cum SA (acres)		416.23	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 3331 Profile: PF 1

E.G. Elev (ft)	2308.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.		0.143	
W.S. Elev (ft)	2308.76	Reach Len. (ft)	1036.80	1036.80	1036.80
Crit W.S. (ft)		Flow Area (sq ft)		10002.23	
E.G. Slope (ft/ft)	0.002817	Area (sq ft)		17648.22	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6711.40	Top Width (ft)		6711.40	
Vel Total (ft/s)	1.30	Avg. Vel. (ft/s)		1.30	
Max Chl Dpth (ft)	6.04	Hydr. Depth (ft)		3.60	
Conv. Total (cfs)	244913.2	Conv. (cfs)		244913.2	
Length Wtd. (ft)	1036.80	Wetted Per. (ft)		2782.40	
Min Ch El (ft)	2302.72	Shear (lb/sq ft)		0.63	
Alpha	1.00	Stream Power (lb/ft s)		0.82	
Frctn Loss (ft)	1.01	Cum Volume (acre-ft)		892.65	
C & E Loss (ft)	0.00	Cum SA (acres)		304.23	

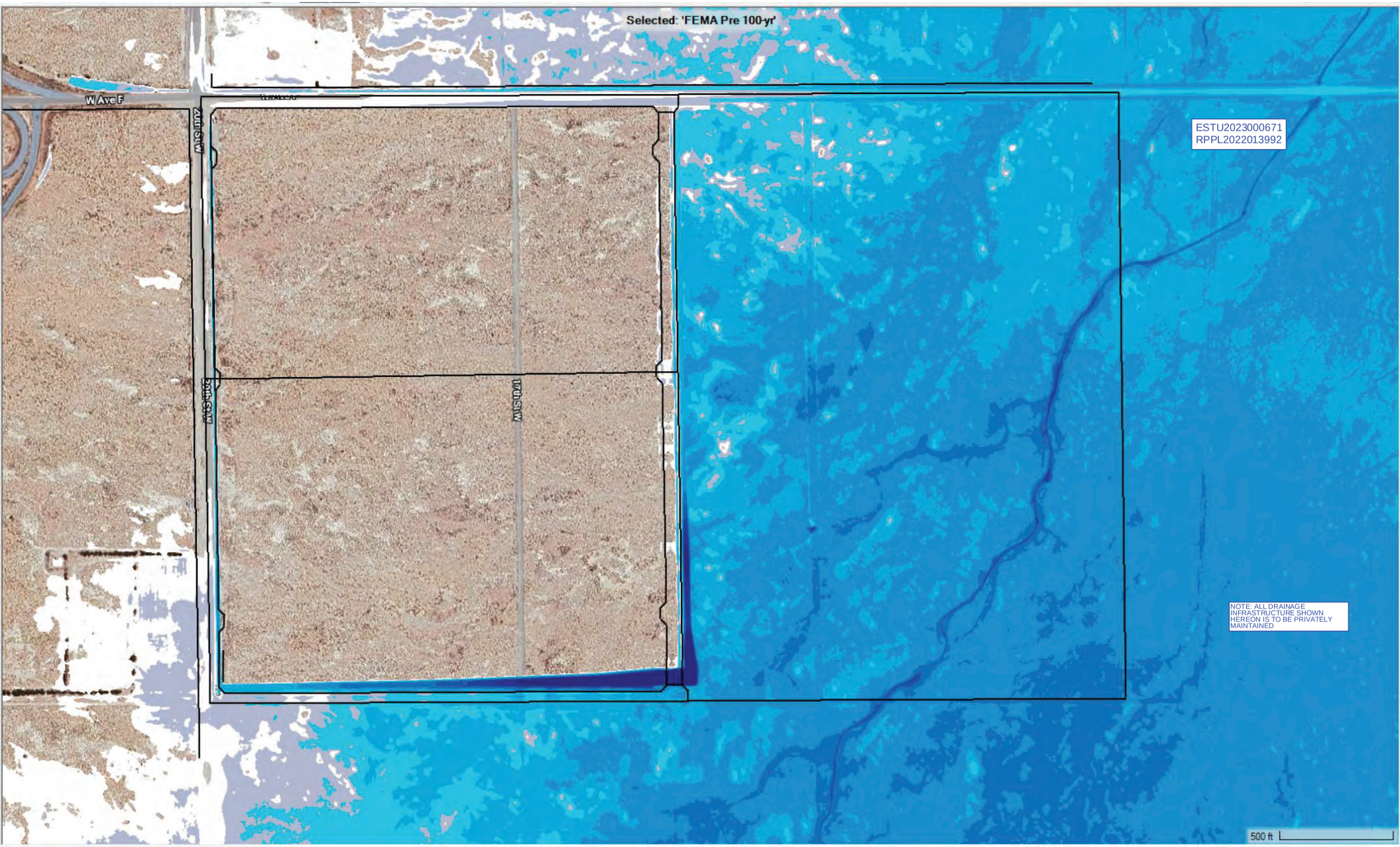
Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 2294 Profile: PF 1

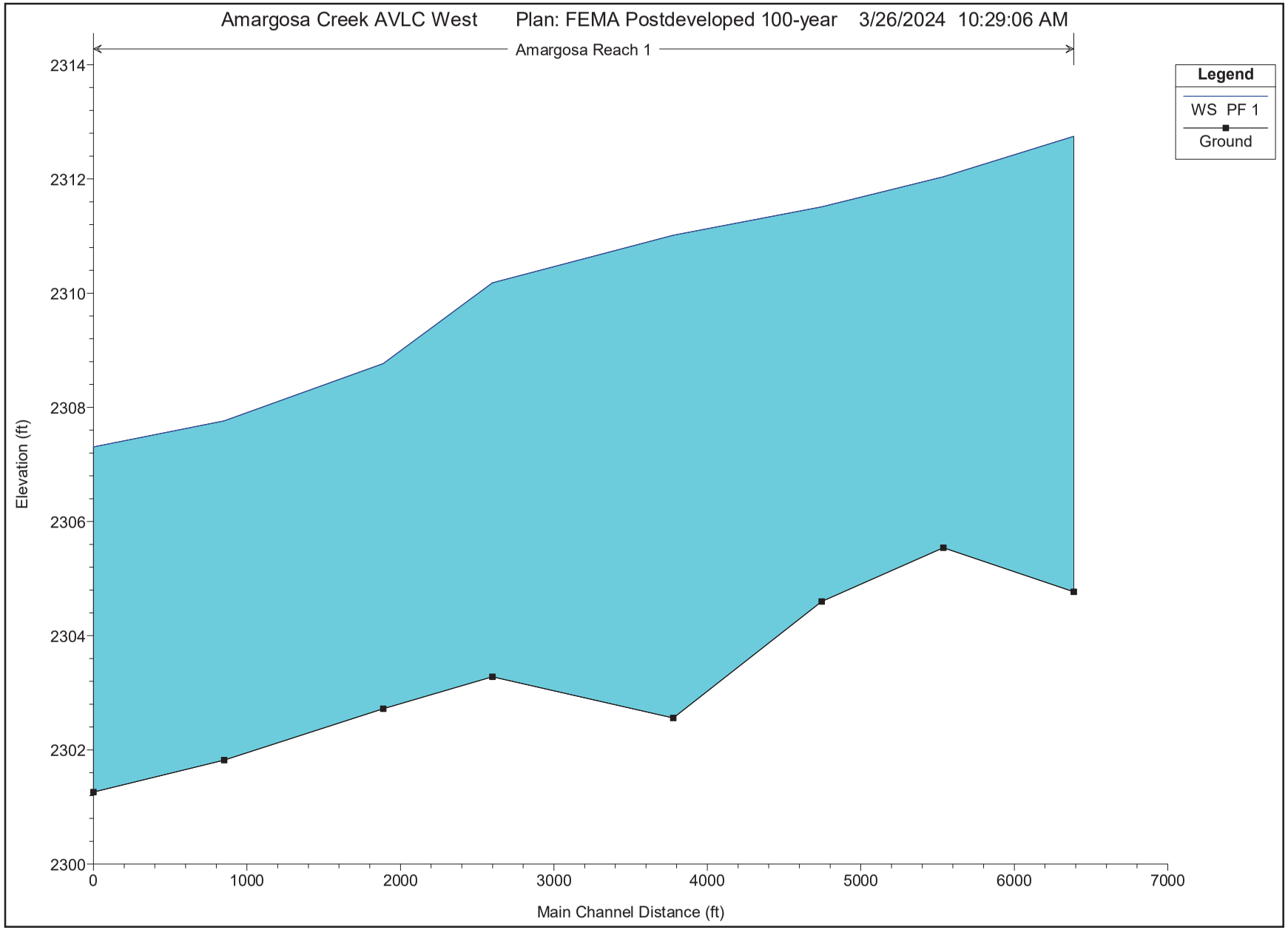
E.G. Elev (ft)	2307.78	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.065	
W.S. Elev (ft)	2307.76	Reach Len. (ft)	851.30	851.30	851.30
Crit W.S. (ft)		Flow Area (sq ft)		10505.30	
E.G. Slope (ft/ft)	0.000486	Area (sq ft)		20808.13	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6958.83	Top Width (ft)		6958.83	
Vel Total (ft/s)	1.24	Avg. Vel. (ft/s)		1.24	
Max Chl Dpth (ft)	5.93	Hydr. Depth (ft)		3.81	
Conv. Total (cfs)	589687.3	Conv. (cfs)		589687.3	
Length Wtd. (ft)	851.30	Wetted Per. (ft)		2759.86	
Min Ch El (ft)	2301.83	Shear (lb/sq ft)		0.12	
Alpha	1.00	Stream Power (lb/ft s)		0.14	
Frctn Loss (ft)	0.46	Cum Volume (acre-ft)		434.99	
C & E Loss (ft)	0.00	Cum SA (acres)		141.55	

Plan: FEMA Pre 100-yr Amargosa Reach 1 RS: 1443 Profile: PF 1

E.G. Elev (ft)	2307.32	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.079	
W.S. Elev (ft)	2307.30	Reach Len. (ft)			
Crit W.S. (ft)	2304.10	Flow Area (sq ft)		11107.85	
E.G. Slope (ft/ft)	0.000601	Area (sq ft)		23707.79	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	7526.60	Top Width (ft)		7526.60	
Vel Total (ft/s)	1.17	Avg. Vel. (ft/s)		1.17	
Max Chl Dpth (ft)	6.04	Hydr. Depth (ft)		4.06	
Conv. Total (cfs)	530332.7	Conv. (cfs)		530332.7	
Length Wtd. (ft)		Wetted Per. (ft)		2739.68	
Min Ch El (ft)	2301.26	Shear (lb/sq ft)		0.15	
Alpha	1.00	Stream Power (lb/ft s)		0.18	
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

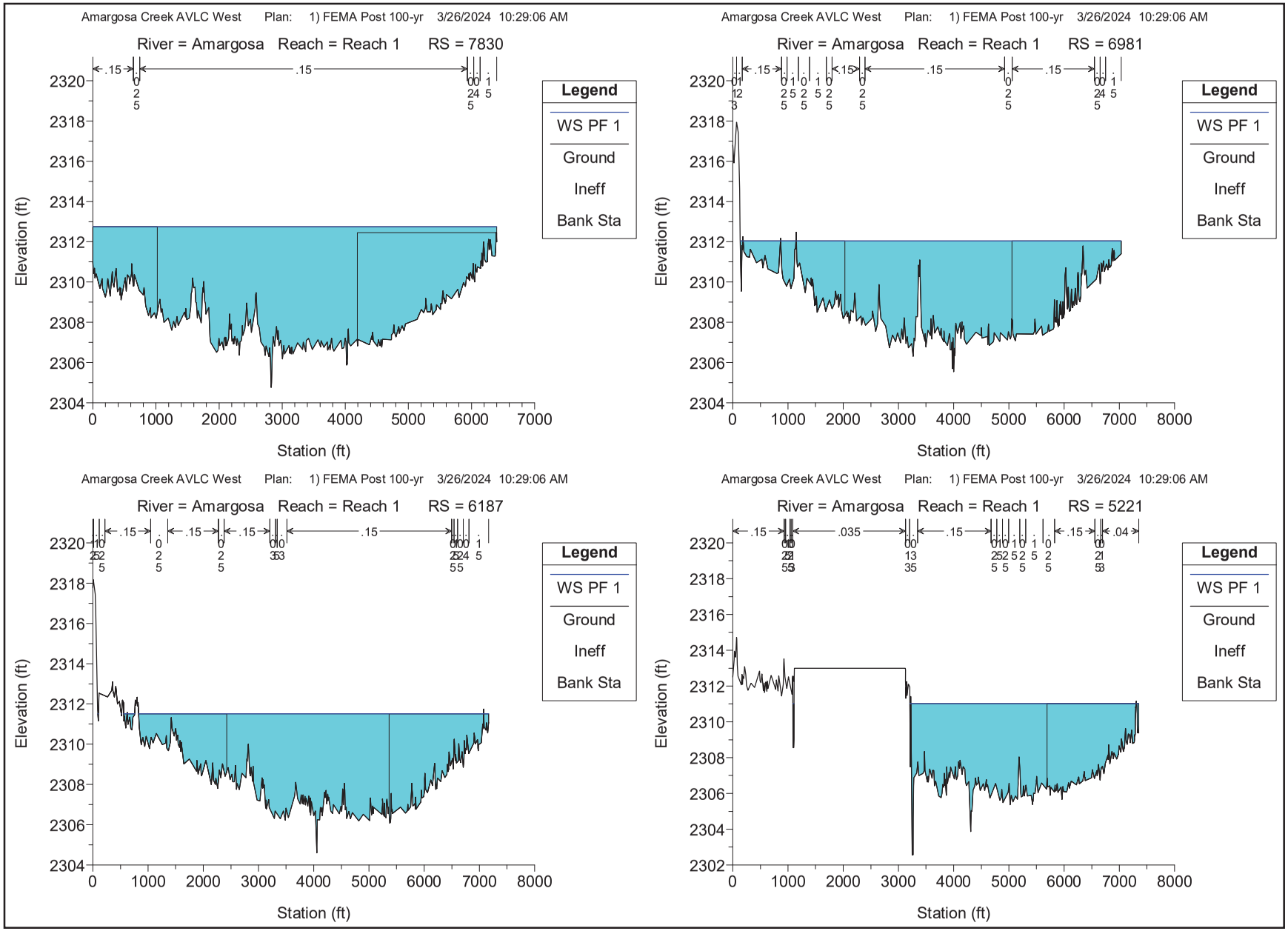
Appendix XL: HEC-RAS Postdeveloped Depth Map and Tables (100-year FEMA)

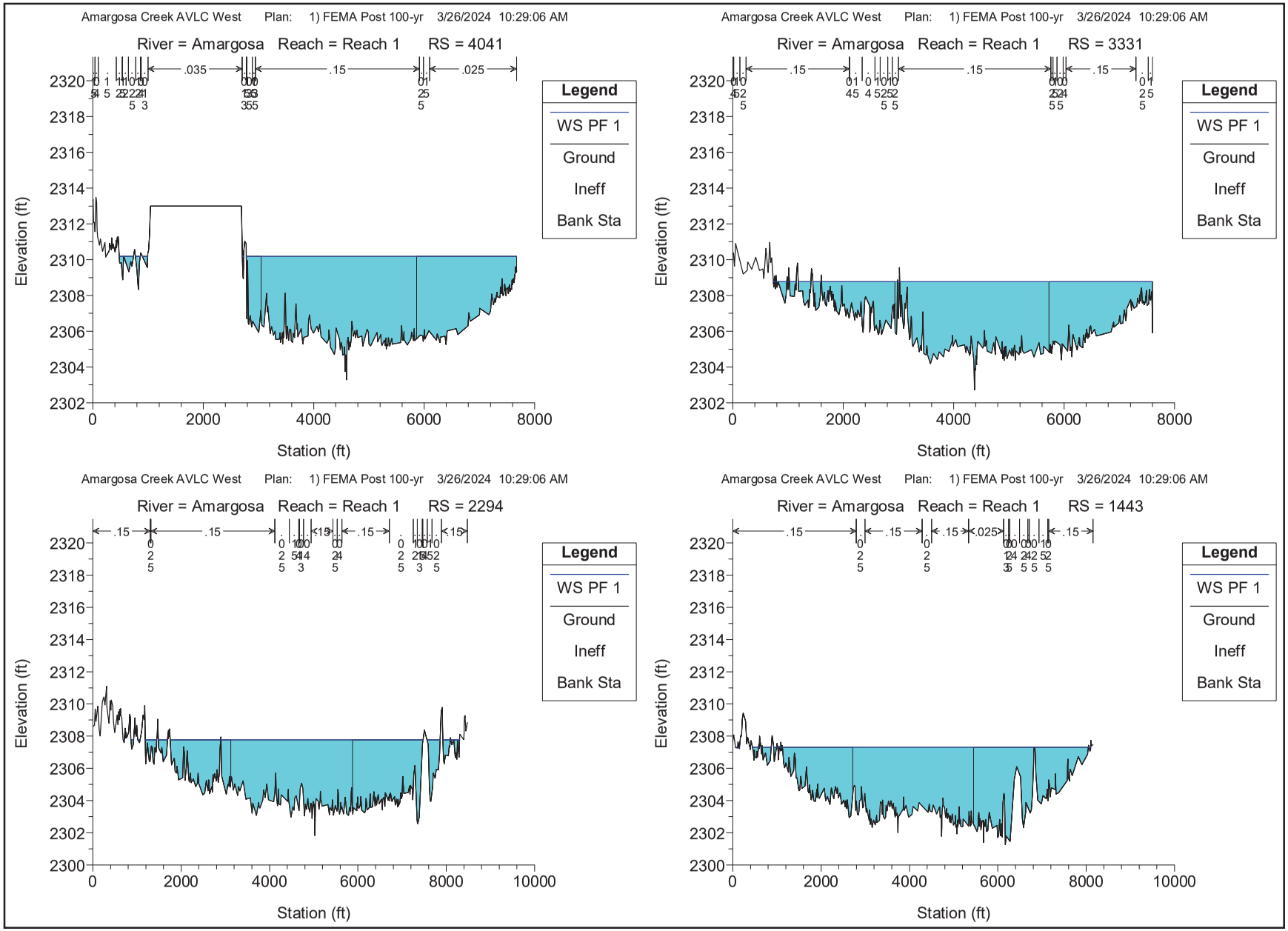

Selected: 'FEMA Pre 100-yr'
W Ave F
200th St W
200th St W
197th St W
ESTU2023000671
RPPL2022013992
NOTE: ALL DRAINAGE INFRASTRUCTURE SHOWN HEREON IS TO BE PRIVATELY MAINTAINED
500 ft


Amargosa Creek AVLC West
Plan: FEMA Postdeveloped 100-year
3/26/2024 10:29:06 AM
Amargosa Reach 1
Legend
WS PF 1
Ground
Elevation (ft)
2314
2312
2310
2308
2306
2304
2302
2300
0
1000
2000
3000
4000
5000
6000
7000
Main Channel Distance (ft)

HEC-RAS Plan: FEMA Post 100-yr River: Amargosa Reach: Reach 1 Profile: PF 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	7830	PF 1	13000.00	2304.77	2312.75		2312.76	0.001033	0.74	17604.16	6400.00	0.07
Reach 1	6981	PF 1	13000.00	2305.54	2312.04		2312.05	0.000677	0.96	13506.20	6875.22	0.08
Reach 1	6187	PF 1	13000.00	2304.60	2311.51		2311.53	0.000643	1.00	12996.61	6549.85	0.08
Reach 1	5221	PF 1	13000.00	2302.56	2311.01		2311.03	0.000416	1.14	11371.09	4150.01	0.09
Reach 1	4041	PF 1	13000.00	2303.28	2310.18		2310.20	0.001466	1.03	12615.43	5368.75	0.09
Reach 1	3331	PF 1	13000.00	2302.72	2308.77		2308.79	0.002820	1.30	9997.68	6701.74	0.12
Reach 1	2294	PF 1	13000.00	2301.82	2307.76		2307.79	0.000484	1.24	10524.01	6976.69	0.11
Reach 1	1443	PF 1	13000.00	2301.26	2307.31	2304.10	2307.33	0.000601	1.17	11114.38	7548.41	0.10


Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 7830
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 6981
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 6187
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 5221
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)


Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 4041
.035
.15
.025
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 3331
.15
.15
.15
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 2294
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Amargosa Creek AVLC West Plan: 1) FEMA Post 100-yr 3/26/2024 10:29:06 AM
River = Amargosa Reach = Reach 1 RS = 1443
.025
Legend
WS PF 1
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 7830 Profile: PF 1

E.G. Elev (ft)	2312.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.01	Wt. n-Val.		0.150	
W.S. Elev (ft)	2312.75	Reach Len. (ft)	848.90	848.90	848.90
Crit W.S. (ft)		Flow Area (sq ft)		17604.16	
E.G. Slope (ft/ft)	0.001033	Area (sq ft)		29016.02	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6400.00	Top Width (ft)		6400.00	
Vel Total (ft/s)	0.74	Avg. Vel. (ft/s)		0.74	
Max Chl Dpth (ft)	7.98	Hydr. Depth (ft)		3.27	
Conv. Total (cfs)	404443.8	Conv. (cfs)		404443.8	
Length Wtd. (ft)	848.90	Wetted Per. (ft)		5382.80	
Min Ch El (ft)	2304.77	Shear (lb/sq ft)		0.21	
Alpha	1.00	Stream Power (lb/ft s)		0.16	
Frctn Loss (ft)	0.70	Cum Volume (acre-ft)		3062.70	
C & E Loss (ft)	0.00	Cum SA (acres)		902.41	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 6981 Profile: PF 1

E.G. Elev (ft)	2312.05	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.01	Wt. n-Val.		0.109	
W.S. Elev (ft)	2312.04	Reach Len. (ft)	794.20	794.20	794.20
Crit W.S. (ft)		Flow Area (sq ft)		13506.20	
E.G. Slope (ft/ft)	0.000677	Area (sq ft)		23082.87	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6875.22	Top Width (ft)		6875.22	
Vel Total (ft/s)	0.96	Avg. Vel. (ft/s)		0.96	
Max Chl Dpth (ft)	6.50	Hydr. Depth (ft)		4.46	
Conv. Total (cfs)	499800.7	Conv. (cfs)		499800.7	
Length Wtd. (ft)	794.20	Wetted Per. (ft)		3028.87	
Min Ch El (ft)	2305.54	Shear (lb/sq ft)		0.19	
Alpha	1.00	Stream Power (lb/ft s)		0.18	
Frctn Loss (ft)	0.52	Cum Volume (acre-ft)		2555.05	
C & E Loss (ft)	0.00	Cum SA (acres)		773.06	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 6187 Profile: PF 1

E.G. Elev (ft)	2311.53	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.102	
W.S. Elev (ft)	2311.51	Reach Len. (ft)	966.40	966.40	966.40
Crit W.S. (ft)		Flow Area (sq ft)		12996.61	
E.G. Slope (ft/ft)	0.000643	Area (sq ft)		21917.20	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6549.85	Top Width (ft)		6549.85	
Vel Total (ft/s)	1.00	Avg. Vel. (ft/s)		1.00	
Max Chl Dpth (ft)	6.91	Hydr. Depth (ft)		4.42	
Conv. Total (cfs)	512632.4	Conv. (cfs)		512632.4	
Length Wtd. (ft)	966.40	Wetted Per. (ft)		2945.06	
Min Ch El (ft)	2304.60	Shear (lb/sq ft)		0.18	
Alpha	1.00	Stream Power (lb/ft s)		0.18	
Frctn Loss (ft)	0.49	Cum Volume (acre-ft)		2144.82	
C & E Loss (ft)	0.00	Cum SA (acres)		650.67	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 5221 Profile: PF 1

E.G. Elev (ft)	2311.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.073	
W.S. Elev (ft)	2311.01	Reach Len. (ft)	1179.30	1179.30	1179.30
Crit W.S. (ft)		Flow Area (sq ft)		11371.09	
E.G. Slope (ft/ft)	0.000416	Area (sq ft)		17424.97	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	4150.01	Top Width (ft)		4150.01	
Vel Total (ft/s)	1.14	Avg. Vel. (ft/s)		1.14	
Max Chl Dpth (ft)	8.45	Hydr. Depth (ft)		4.58	
Conv. Total (cfs)	637237.9	Conv. (cfs)		637237.9	
Length Wtd. (ft)	1179.30	Wetted Per. (ft)		2487.30	
Min Ch El (ft)	2302.56	Shear (lb/sq ft)		0.12	
Alpha	1.00	Stream Power (lb/ft s)		0.14	
Frctn Loss (ft)	0.84	Cum Volume (acre-ft)		1708.41	
C & E Loss (ft)	0.00	Cum SA (acres)		531.98	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 4041 Profile: PF 1

E.G. Elev (ft)	2310.20	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.150	
W.S. Elev (ft)	2310.18	Reach Len. (ft)	710.30	710.30	710.30
Crit W.S. (ft)		Flow Area (sq ft)		12615.43	
E.G. Slope (ft/ft)	0.001466	Area (sq ft)		20071.58	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	5368.75	Top Width (ft)		5368.75	
Vel Total (ft/s)	1.03	Avg. Vel. (ft/s)		1.03	
Max Chl Dpth (ft)	6.90	Hydr. Depth (ft)		4.48	
Conv. Total (cfs)	339477.3	Conv. (cfs)		339477.3	
Length Wtd. (ft)	710.30	Wetted Per. (ft)		2817.70	
Min Ch El (ft)	2303.28	Shear (lb/sq ft)		0.41	
Alpha	1.00	Stream Power (lb/ft s)		0.42	
Frctn Loss (ft)	1.41	Cum Volume (acre-ft)		1200.84	
C & E Loss (ft)	0.00	Cum SA (acres)		403.13	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 3331 Profile: PF 1

E.G. Elev (ft)	2308.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.		0.143	
W.S. Elev (ft)	2308.77	Reach Len. (ft)	1036.80	1036.80	1036.80
Crit W.S. (ft)		Flow Area (sq ft)		9997.68	
E.G. Slope (ft/ft)	0.002820	Area (sq ft)		17617.14	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6701.74	Top Width (ft)		6701.74	
Vel Total (ft/s)	1.30	Avg. Vel. (ft/s)		1.30	
Max Chl Dpth (ft)	6.04	Hydr. Depth (ft)		3.60	
Conv. Total (cfs)	244795.5	Conv. (cfs)		244795.5	
Length Wtd. (ft)	1036.80	Wetted Per. (ft)		2781.77	
Min Ch El (ft)	2302.72	Shear (lb/sq ft)		0.63	
Alpha	1.00	Stream Power (lb/ft s)		0.82	
Frctn Loss (ft)	1.00	Cum Volume (acre-ft)		893.56	
C & E Loss (ft)	0.00	Cum SA (acres)		304.72	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 2294 Profile: PF 1

E.G. Elev (ft)	2307.79	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.065	
W.S. Elev (ft)	2307.76	Reach Len. (ft)	851.30	851.30	851.30
Crit W.S. (ft)		Flow Area (sq ft)		10524.01	
E.G. Slope (ft/ft)	0.000484	Area (sq ft)		20855.84	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	6976.69	Top Width (ft)		6976.69	
Vel Total (ft/s)	1.24	Avg. Vel. (ft/s)		1.24	
Max Chl Dpth (ft)	5.94	Hydr. Depth (ft)		3.82	
Conv. Total (cfs)	591069.0	Conv. (cfs)		591069.0	
Length Wtd. (ft)	851.30	Wetted Per. (ft)		2759.89	
Min Ch El (ft)	2301.82	Shear (lb/sq ft)		0.12	
Alpha	1.00	Stream Power (lb/ft s)		0.14	
Frctn Loss (ft)	0.46	Cum Volume (acre-ft)		435.70	
C & E Loss (ft)	0.00	Cum SA (acres)		141.93	

Plan: FEMA Post 100-yr Amargosa Reach 1 RS: 1443 Profile: PF 1

E.G. Elev (ft)	2307.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.02	Wt. n-Val.		0.079	
W.S. Elev (ft)	2307.31	Reach Len. (ft)			
Crit W.S. (ft)	2304.10	Flow Area (sq ft)		11114.38	
E.G. Slope (ft/ft)	0.000601	Area (sq ft)		23732.16	
Q Total (cfs)	13000.00	Flow (cfs)		13000.00	
Top Width (ft)	7548.41	Top Width (ft)		7548.41	
Vel Total (ft/s)	1.17	Avg. Vel. (ft/s)		1.17	
Max Chl Dpth (ft)	6.05	Hydr. Depth (ft)		4.06	
Conv. Total (cfs)	530340.1	Conv. (cfs)		530340.1	
Length Wtd. (ft)		Wetted Per. (ft)		2739.67	
Min Ch El (ft)	2301.26	Shear (lb/sq ft)		0.15	
Alpha	1.00	Stream Power (lb/ft s)		0.18	
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

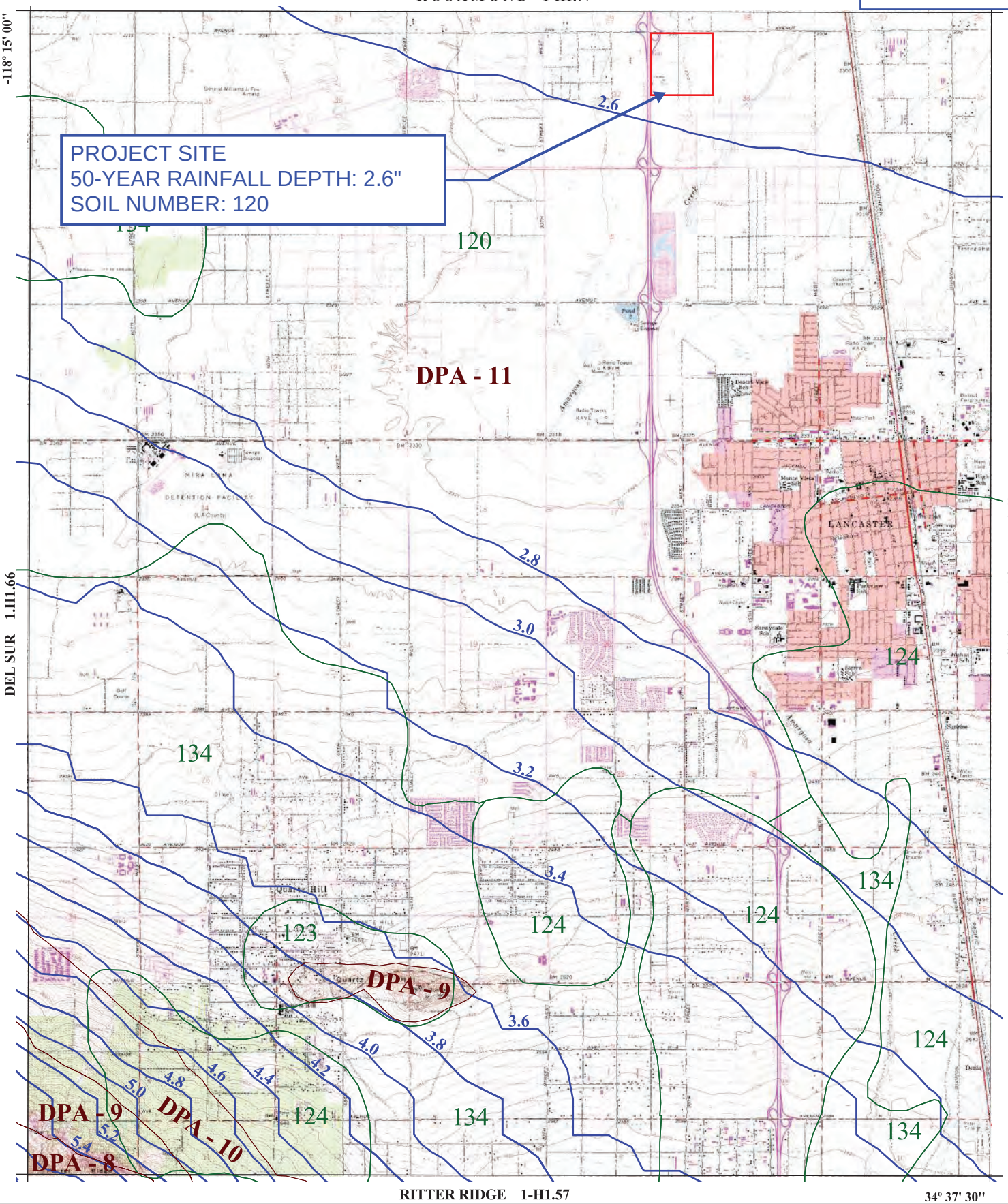
Appendix XLI: FEMA Profile Comparison Table

HEC-RAS River: Amargosa Reach: Reach 1 Profile: PF 1

Reach	River Sta	Plan	Q Total	W.S. Elev	Vel Chnl	Froude # Chl
			(cfs)	(ft)	(ft/s)	
Reach 1	7830	FEMA Pre 100-yr	13000	2312.8	0.74	0.07
Reach 1	7830	FEMA Post 100-yr	13000	2312.7	0.74	0.07
Reach 1	6981	FEMA Pre 100-yr	13000	2312.1	0.96	0.08
Reach 1	6981	FEMA Post 100-yr	13000	2312.0	0.96	0.08
Reach 1	6187	FEMA Pre 100-yr	13000	2311.6	0.99	0.08
Reach 1	6187	FEMA Post 100-yr	13000	2311.5	1.00	0.08
Reach 1	5221	FEMA Pre 100-yr	13000	2311.0	1.02	0.09
Reach 1	5221	FEMA Post 100-yr	13000	2311.0	1.14	0.09
Reach 1	4041	FEMA Pre 100-yr	13000	2310.2	1.03	0.09
Reach 1	4041	FEMA Post 100-yr	13000	2310.2	1.03	0.09
Reach 1	3331	FEMA Pre 100-yr	13000	2308.8	1.30	0.12
Reach 1	3331	FEMA Post 100-yr	13000	2308.8	1.30	0.12
Reach 1	2294	FEMA Pre 100-yr	13000	2307.8	1.24	0.11
Reach 1	2294	FEMA Post 100-yr	13000	2307.8	1.24	0.11
Reach 1	1443	FEMA Pre 100-yr	13000	2307.3	1.17	0.10
Reach 1	1443	FEMA Post 100-yr	13000	2307.3	1.17	0.10

Appendix XLII: Isohyet Map

ESTU2023000671
RPPL2022013992



016 SOIL CLASSIFICATION AREA

7.2 INCHES OF RAINFALL

DPA - 6 DEBRIS POTENTIAL AREA

1 0 1 2 Miles

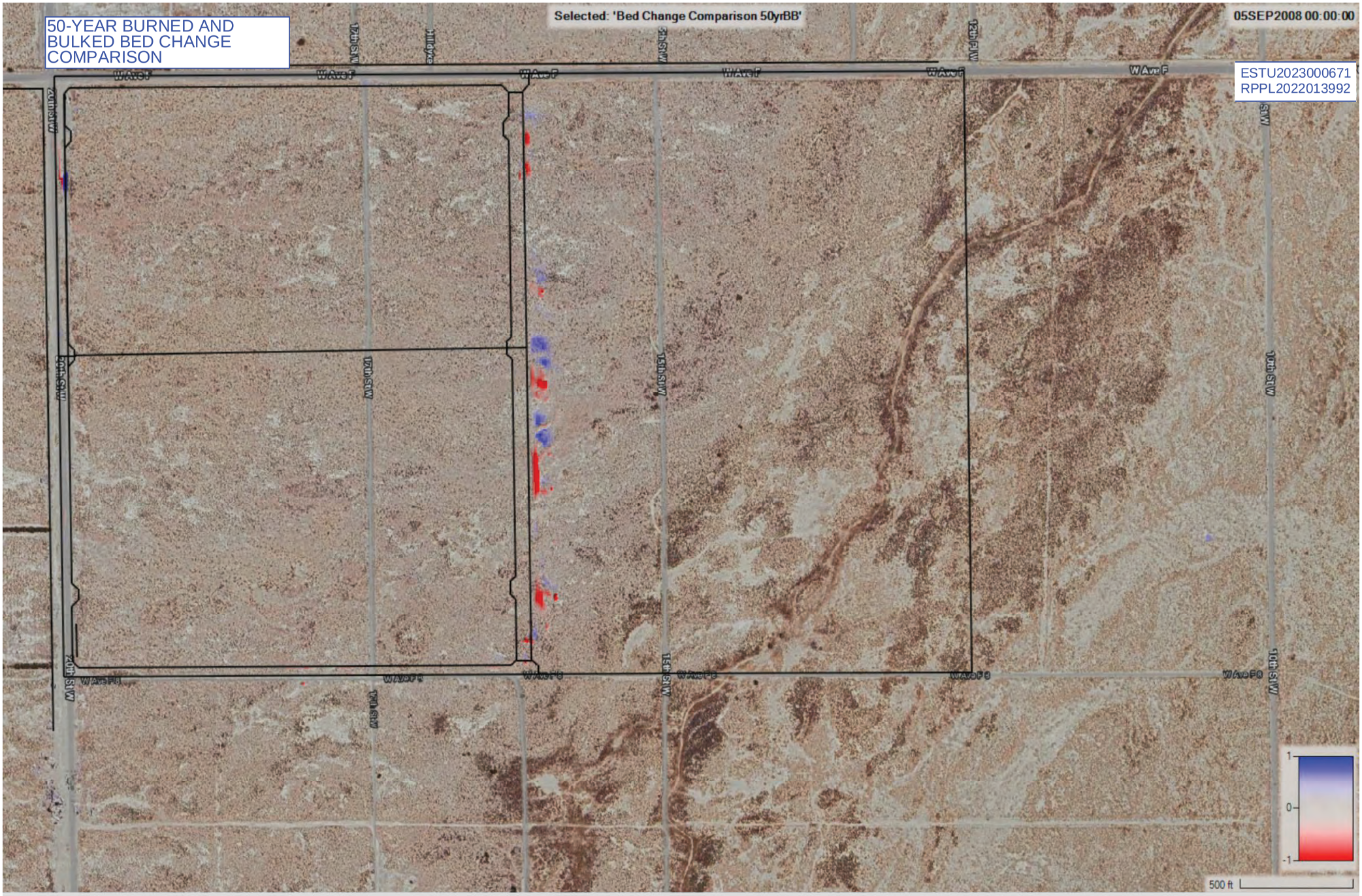
25-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.878
10-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.714

LANCASTER WEST
50-YEAR 24-HOUR ISOHYET

1-H1.67

LOS ANGELES COUNTY PUBLIC WORKS Public Service That Works

Appendix XLIII: Burned and Bulked Bed Change Comparison Maps


50-YEAR BURNED AND BULKED BED CHANGE COMPARISON
Selected: 'Bed Change Comparison 50yrBB'
05SEP2008 00:00:00
ESTU2023000671
RPPL2022013992
W Ave F
12th St W
Hillcrest
13th St W
15th St W
16th St W
20th St W
24th St W
1
0
-1
500 ft


2-YEAR BED CHANGE COMPARISON
Selected: 'Bed Change Comparison 2yr'
05SEP2008 00:00:00
W Ave F
10th St W
15th St W
20th St W
24th St W
1
0
-1
500 ft

Appendix XLIV: Land Cover Map

ESTU2023000671
RPPL2022013992

