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August 26, 2016

Ref.: 20160093

John Walter
East Bay Municipal Utility District
375 11th Street MS 704
Oakland, CA 94607

Adeline Maintenance Center LUFT/SLIC Case
Data Review
Fuel Leak Case No. RO0000030
GeoTracker Global ID: T0600102115
1200 21st Street, Oakland, CA.

Dear Mr. Walter:

At the request of East Bay Municipal Utility District (EBMUD) and in accordance with Alameda County Environmental Health's (ACEH) directive "Fuel Leak Case No. RO0000030 and GeoTracker Global ID T0600102115, EBMUD, 1200 21st Street, Oakland, CA 94607" dated June 24, 2016, Engineering/Remediation Resources Group, Inc. (ERRG) has prepared this data review to update the Environmental Screening Levels (ESL) for comparison to the soil and groundwater data presented in AECOM's June 30, 2015, "Technical Memo, East Bay Municipal Utility District, Adeline Maintenance Center, Oakland, California." [Figure 1](#) shows the regional location of 1200 21st Street, Oakland, California (site) and [Figure 2](#) presents the site's detail.

This data review compares the 2009 soil and groundwater data from the site (Tables 1 through 8) against values taken from the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board 2016 Interim Final Tier 2 ESL Input and Output (ESL Table T2-1) worksheet using the following inputs:

- Land Use: Commercial or Industrial
- Groundwater Use: Drinking Water Resource
- Maximum Contaminant Level Priority over Risk-Based Levels: No
- Intact Building Slab: No or Unknown
- Groundwater Depth for Groundwater Vapor Intrusion: Shallow Groundwater
- Soil Type for Groundwater Vapor Intrusion: Fine to Coarse Scenario
- Soil Contamination Depth: Shallow Soil

A comparison of the 2009 soil and groundwater data to the 2016 Tier 2 ESLs is summarized below:

Soil Data

- Arsenic soil ESLs were exceeded in AOCs 1, 2, and 3, where detected. The analytical reporting limit exceeded the soil ESLs, where arsenic was not detected ([Table 1](#)).

- Total petroleum hydrocarbons as gasoline (TPH-g) and as diesel (TPH-d) were detected above their soil ESLs in AOC 1. Total petroleum hydrocarbons as motor oil (TPH-mo) were detected above their soil ESLs in AOC 2. TPH as oil and grease does not have established soil ESLs. The highest concentrations of TPH as oil and grease in AOCs 1, 2, and 3 was 2,700 mg/kg (AOC 1) ([Table 2](#)).
- Seven volatile organic compound (VOC) analytes exceeded their soil ESLs. Chloroethane and methylene chloride soil ESLs were exceeded in AOCs 1, 2, and 3. Dibromochloropropane, ethylbenzene, m+p xylenes, and naphthalene exceeded their soil ESLs in AOC 1 and acetone exceeded its soil ESL in AOC 2 and 3. The analytical reporting limits for acetone, benzene, dibromochloropropane, and naphthalene exceed their soil ESLs, where those chemicals were not detected ([Table 3](#)).
- Three semivolatile organic compound (SVOC) analytes exceeded their soil ESLs. Phenol exceeded its soil ESL in AOCs 1, 2, and 3. 2-methylnaphthalene and naphthalene exceeded their soil ESLs in AOC 1. The analytical reporting limit for naphthalene exceed the soil ESLs, where not detected ([Table 4](#)).

Groundwater Data

- Twelve metals exceeded their groundwater ESLs. Arsenic, barium, beryllium, cadmium chromium, cobalt, lead, mercury, nickel, vanadium, and zinc exceeded their groundwater ESLs in AOCs 2 and 3. Silver exceeded its groundwater ESL in AOC 3. No groundwater samples from AOC 1 were analyzed for metals. The analytical reporting limits for antimony, arsenic, cadmium, copper, lead, selenium, and thallium exceeded their groundwater ESLs, where not detected ([Table 5](#)).
- TPH-g exceeded its groundwater ESL in AOCs 1, 2 and 3. TPH-d exceeded its groundwater ESL in AOCs 1 and 3. TPH-mo and oil and grease do not have established groundwater ESLs. The highest concentration of TPH-mo was 2,200 micrograms per liter ($\mu\text{g}/\text{L}$) (AOC1), 7,000 $\mu\text{g}/\text{L}$ (AOC 2), and 185,000 $\mu\text{g}/\text{L}$ (AOC 3). Oil and grease was detected in one groundwater sample in AOC 3 at a concentration of 7.8 $\mu\text{g}/\text{L}$ ([Table 6](#)).
- Twelve VOC analytes exceeded their groundwater ESLs. Benzene exceeded its groundwater ESL in AOCs 1, 2 and 3. Naphthalene exceeded its groundwater ESL in AOCs 1 and 3. Bromodichloromethane, ethyl benzene, m+p xylenes, methyl tertiary butyl ether, and o-xylene exceeded their groundwater ESLs in AOC 1. Chloroform exceeded its groundwater ESL in AOC 2. Hexachlorobutadiene, hexachloroethane, tert-butyl alcohol, and vinyl chloride exceeded their groundwater ESLs in AOC 3. The analytical reporting limits for benzene, bromodichloromethane, chloroform, hexachlorobutadiene, hexachloroethane, naphthalene, and vinyl chloride exceeded their groundwater ESLs, where not detected ([Table 7](#)).
- Eight SVOC analytes exceeded their groundwater ESLs. 2-methylnaphthalene, benzo(a)pyrene, benzo(a)anthracene, bis(2-ethylhexyl)phthalate, chrysene, naphthalene, phenol, and pyrene were detected above their groundwater ESLs in AOC 3. No detected SVOCs in AOC 2 exceeded their groundwater ESLs. No groundwater samples from AOC 1 were analyzed for SVOCs. The analytical reporting limits for benzo(a)anthracene, benzo(a)pyrene, chrysene, and naphthalene exceeded their groundwater ESLs ([Table 8](#)).

Mr. Walter
August 26, 2016
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If you have any questions or comments regarding this data review, please contact me at 925-839-2266 (email: dan.lohr@errg.com) or Erik Oehlschlager at 925-839-2274 (email: erik.oehlschlager@errg.com).

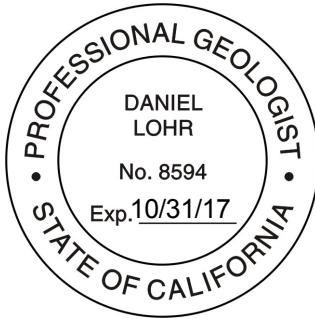
Sincerely,

A handwritten signature in black ink that appears to read "Dan Lohr".

Dan Lohr, PG
Senior Project Geologist

Enclosure 1: [Tables](#)

Enclosure 2: [Figures](#)



Enclosure 1. Tables

Table 1. 2009 Soil Analytical Results - Metals Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium		Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			EPA Method	6010B	6010B	6010B	6010B	6010B	WET	6010B	6010B	6010B	7471	6010B	6010B	6010B	7761	6010B	6010B	6010B	6010B
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			Soil ESL ¹	140	0.31	3,000	42	43	--	28	14,000	160	44	1,800	86	1,700	1,800	4	470	110,000	
Area of Concern 1																					
2509-8	2509	8	03/26/09	<0.963	4.45	132	0.363	0.243	40.8	--	8.33	26.1	88.9	0.20	<0.193	32.9	<1.25	0.086	<1.06	35.5	84.2
2609-8	2609	8	03/26/09	<0.929	2.32	83.5	0.301	0.112	44.1	--	4.78	12.1	7.62	0.037	2.67	29.5	<1.21	0.04	<1.02	38.1	32.8
2909-10	2909	10	03/26/09	<0.882	1.36	272	0.522	<0.0794	40.8	--	3.5	13.4	2.65	0.027	0.201	27.9	<1.15	0.017	<0.97	26.2	27.4
2909-7	2909	7	03/26/09	<0.899	2.83	50.7	0.356	0.089	50.4	--	6.32	17.1	18.2	0.16	<0.18	33.7	<1.17	0.089	<0.989	37.7	37.6
3009-7	3009	7	03/26/09	<0.778	2.08	52.3	0.313	0.131	39.7	--	6.59	12.0	12.6	0.23	<0.156	34	<1.01	0.065	<0.855	31.0	42.8
3009-10		10	03/26/09	<0.921	14.5	339	0.422	0.397	35.4	--	27.4	6.63	3.9	0.028	0.433	48.6	<1.2	0.065	<1.01	32.1	24.0
3109-8	3109	8	03/26/09	<0.958	<0.958	833	0.434	<0.0862	45.8	--	3.94	12.1	4.0	0.027	1.44	34.1	<1.25	0.019	<1.05	37.2	29.6
3109-12		12	03/26/09	1.42	<1	84	0.244	0.126	29.5	--	3.61	6.86	4.11	0.035	<0.201	22.4	<1.31	0.059	<1.1	19.0	17.8
Area of Concern 2																					
3209-8	3209	10	03/27/09	<0.931	3.12	69.6	0.235	0.258	33.4	--	7.14	12.2	19.9	0.45	<0.186	24.3	<1.21	0.049	<1.02	25.2	43.7
3309-8	3309	10	03/27/09	<0.963	1.3	105	0.269	0.112	39.5	--	5.59	7.93	3.81	0.038	<0.193	19.4	<1.25	0.025	<1.06	27.3	23.5
3409-5	3409	5	03/27/09	<0.904	1.3	39.7	0.368	<0.0814	68.4	0.871	7.62	21.9	8.6	0.081	<0.181	41.1	<1.18	0.067	<0.995	55.6	55.1
3409-8		8	03/27/09	<0.673	1.78	50.7	0.223	<0.0606	36.6	--	5.66	7.26	3.7	0.038	0.566	19.6	<0.875	0.021	<0.74	26.4	19.5
3509-5	3509	5	03/27/09	<0.945	8.1	50.7	0.34	0.2	62.6	0.784	7.78	24.4	19.1	0.16	0.432	40.6	<1.23	0.063	<1.04	52.8	68.9
3509-8		8	03/27/09	<0.912	7.82	154	0.363	0.248	32.2	--	5.5	8.64	3.36	0.032	0.439	28.2	<1.19	0.061	<1	30.2	26.5
3609-8	3609	10	03/27/09	<0.898	1.21	84.1	0.223	0.184	34.9	--	6.28	7.85	14.2	0.055	<0.18	19.2	<1.17	0.031	<0.987	24.4	27.2
3709-8	3709	10	03/27/09	<0.998	5.24	258	0.563	0.234	45.5	--	9.68	14.7	4.2	0.043	<0.2	55.6	<1.3	0.16	<1.1	41.2	40.0
3809-5	3809	5	03/27/09	<0.909	5.02	74.1	0.365	0.11	58.7	0.766	7.26	22.2	20.3	0.13	0.514	39.9	<1.18	0.057	<1	48.7	48.0
3809-8		8	03/27/09	<0.919	1.21	87.5	0.2	0.219	32.2	--	7	7.45	3.47	0.038	<0.184	24.6	<1.19	0.029	<1.01	22.6	26.0
Area of Concern 3																					
0609-8	0609	8	03/27/09	<0.893	2.67	19.8	0.185	0.163	29.5	--	5.42	10.4	11.9	0.083	0.179	24.4	<1.16	0.035	<0.982	22.2	36.0
0609-20		20	03/24/09	<0.825	<0.825	44.9	0.253	<0.0743	30.5	--	4.34	5.75	2.12	0.038	<0.165	18.2	<1.07	0.034	<0.908	21.2	19.7
0709-8	0709	8	03/24/09	<0.849	1.44	84.2	0.25	0.136	34.2	--	26	6.67	13.5	0.042	0.188	27.1	<1.1	0.012	<0.934	27.0	25.8
070																					

Table 2. 2009 Soil Analytical Results - Total Petroleum Hydrocarbons
Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	TPH-g	TPH-d	TPH-mo	Oil and Grease
EPA Method				8015B	8015B	8015B	1644
Units				mg/kg	mg/kg	mg/kg	mg/kg
Soil ESL ¹				500	570	5100	--
Area of Concern 1							
2509-8	2509	8	03/26/09	<5.7	27	270	2,700
2609-8	2609	8	03/26/09	<5.7	<1.5	34 T	176
2909-7	2909	7	03/26/09	600	140 T	76 T	42.4
2909-10		10	03/26/09	320	<1.5	<18	333
3009-7	3009	7	03/26/09	2,500	600 T	230 T	865
3009-10		10	03/26/09	660	120	37 T	48.1
3109-8	3109	8	03/26/09	2,100	170 T	66 T	37.1
3109-12		12	03/26/09	2,400	120 T	53	81.9
Area of Concern 2							
3209-8	3209	10	03/27/09	110	<1.5	890	564
3309-8	3309	10	03/27/09	10	<1.5	23 T	55.3
3409-5	3409	5	03/27/09	<0.57	<1.5	350	147
3409-8		8	03/27/09	<5.7	<1.5	3,400	2,340
3509-5	3509	5	03/27/09	5.6	<1.5	12,000	2,230
3509-8		8	03/27/09	<5.7	<1.5	52 T	38.8
3609-8	3609	10	03/27/09	<0.57	<1.5	32 T	60.5
3709-8	3709	10	03/27/09	<0.57	<1.5	<18	333
3809-5	3809	5	03/27/09	<0.57	<1.5	96 T	89.9
3809-8		8	03/27/09	<0.57	<1.5	<18	36.8
Area of Concern 3							
0609-8	0609	8	03/27/09	<0.57	<1.5	<18	43.6
0609-20		20	03/24/09	<0.57	<1.5	<18	333
0709-8	0709	8	03/24/09	<0.57	<1.5	<18	43.5
0709-16		16	03/24/09	<0.57	<1.5	<18	26.3
0809-16	0809	18	03/24/09	<0.57	<1.5	<18	30.7
0909-16	0909	18	03/24/09	<0.57	26 T	490	37.4

Notes:

-- = ESL not established

Values in **bold** indicate analyte detected above the laboratory reporting limit.

Values **shaded in blue** indicate analyte detected above "Soil" ESL¹

1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Soil (mg/kg).

Abbreviations

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

T = A "T" qualifier indicates that diesel/gasoline pattern is atypical.

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

Table 3. 2009 Soil Analytical Results - Volatile Organic Compounds Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Date	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1-CHLOROBUTANE	2-BUTANONE	ACETONE	ACROLEIN	BENZENE	CARBON DISULFIDE	CHLOROACETONITRILE	CHLOROETHANE	CHLORMETHANE	DIBROMOCHLOROPROpane	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE
				8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	
				Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
				Soil ESL ¹	--	--	--	0.5	--	0.044	--	--	1.1	29	0.0045	--	--
Area of Concern 1																	
2509-8	2509	8	03/26/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
2609-8	2609	8	03/26/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
2909-7	2909	7	03/26/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
2909-10		10	03/26/09	<0.25	<0.22	<0.75	<0.23	<1.2	<0.32	<0.48	<0.27	<0.22	7.3	<0.52	<0.18	<0.17	<0.33
3009-7	3009	7	03/26/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
3009-10		10	03/26/09	<0.25	<0.22	<0.75	<0.23	<1.2	<0.32	<0.48	<0.27	0.28	5.2	<0.52	0.42	<0.17	<0.33
3109-8	3109	8	03/26/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
3109-12		12	03/26/09	9.0	2.0	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
Area of Concern 2																	
3209-8	3209	10	03/27/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
3309-8	3309	10	03/27/09	<0.17	<0.19	<0.25	<0.64	<0.75	<0.68	<0.23	<0.32	<0.29	<0.48	<0.53	<0.32	<0.24	<0.35
3409-5	3409	5	03/27/09	<0.017	<0.019	<0.025	<0.064	0.79	<0.068	<0.023	<0.032	<0.029	<0.048	0.071	<0.032	<0.024	<0.035
3409-8		8	03/27/09	<0.25	<0.22	<0.75	<0.23	<1.2	<0.32	<0.48	<0.27	<0.22	6.0	<0.52	<0.18	<0.17	<0.33
3509-5	3509	5	03/27/09	0.053	0.03	<0.025	0.13	0.46	<0.068	<0.023	<0.032	<0.029	<0.048	0.07	<0.032	<0.024	<0.035
3509-8		8	03/27/09	<0.25	<0.22	<0.75	<0.23	<1.2	<0.32	<0.48	<0.27	<0.22	9.8	<0.52	<0.18	<0.17	<0.33
3609-8	3609	10	03/27/09	<0.017	<0.019	<0.025	<0.064	0.19	<0.068	<0.023	0.075	<0.029	0.048	0.053	<0.032	<0.024	0.035
3709-8	3709	10	03/27/09	<0.017	<0.019	<0.025	<0.064	0.22	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035
3809-5	3809	5	03/27/09	<0.017	<0.019	<0.025	0.12	0.59	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035
3809-8		8	03/27/09	<0.025	<0.022	0.15	<0.023	<0.12	0.097	<0.048	<0.027	<0.022	3.0	<0.021	<0.018	<0.017	<0.033
Area of Concern 3																	
0609-8	0609	8	03/27/09	<0.017	<0.019	<0.025	<0.064	0.23	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035
0609-20		20	03/24/09	<0.025	<0.022	0.21	<0.023	<0.12	<0.032	0.048	<0.027	<0.022	2.2	<0.021	<0.018	<0.017	<0.033
0709-8	0709	8	03/24/09	<0.017	<0.019	<0.025	<0.064	0.13	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035
0709-16		16	03/24/09	<0.025	<0.022	0.25	<0.023	<0.12	<0.032	0.048	<0.027	<0.022	5.7	<0.021	<0.018	<0.017	<0.033
0809-16	0809	18	03/24/09	<0.017	<0.019	<0.025	<0.064	0.27	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035
0909-16	0909	18	03/24/09	0.029	<0.019	<0.025	<0.064	1.9	<0.068	<0.023	<0.032	<0.029	<0.048	<0.053	<0.032	<0.024	<0.035

Table 3. 2009 Soil Analytical Results - Volatile Organic Compounds Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Date	ETHYL ACETATE	ETHYL BENZENE	ISOPROPYLBENZENE	M+P XYLENES	METHYLENE CHLORIDE	NAPHTHALENE	N-BUTYLBENZENE	N-PROPYLBENZENE	O-XYLENE	TERT-BUTYLBENZENE
EPA Method				8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Soil ESL ¹				--	1.4	--	2.3	0.077	0.033	--	--	--	--
Area of Concern 1													
2509-8	2509	8	03/26/09	<0.38	<0.27	<0.22	<0.29	1.2	<0.52	<0.19	<0.18	<0.23	<0.16
2609-8	2609	8	03/26/09	<0.38	<0.27	<0.22	<0.29	1.8	<0.52	<0.19	<0.18	<0.23	<0.16
2909-7	2909	7	03/26/09	<0.38	<0.27	0.42	<0.29	6.9	<0.52	<0.19	1.1	<0.23	<0.16
2909-10		10	03/26/09	<0.33	<0.2	<0.22	<0.29	7.3	<0.52	<0.19	<0.18	<0.23	<0.16
3009-7	3009	7	03/26/09	<0.38	<0.27	1.9	<0.29	8.8	<0.52	<0.19	<0.18	<0.23	<0.16
3009-10		10	03/26/09	<0.33	<0.2	0.28	<0.29	5.2	<0.52	<0.19	0.42	<0.23	<0.16
3109-8	3109	8	03/26/09	<0.38	<0.27	1.0	<0.29	6.3	4.3	<0.19	2.3	<0.23	<0.16
3109-12		12	03/26/09	<0.38	1.8	0.6	3.3	0.82	2.4	<0.19	1.6	0.81	0.3
Area of Concern 2													
3209-8	3209	10	03/27/09	<0.38	<0.27	<0.22	<0.29	3.9	<0.52	<0.19	<0.18	<0.23	<0.16
3309-8	3309	10	03/27/09	<0.38	<0.27	<0.22	<0.29	1.2	<0.52	<0.19	<0.18	<0.23	<0.16
3409-5	3409	5	03/27/09	<0.038	<0.027	<0.022	<0.029	6.7	<0.052	<0.019	<0.018	<0.023	<0.016
3409-8		8	03/27/09	<0.33	<0.2	<0.22	<0.29	6.0	<0.52	<0.19	<0.18	<0.23	<0.16
3509-5	3509	5	03/27/09	<0.038	<0.027	<0.022	<0.029	4.5	<0.052	0.069	<0.018	<0.023	<0.016
3509-8		8	03/27/09	<0.33	<0.2	<0.22	<0.29	9.8	<0.52	<0.19	<0.18	<0.23	<0.16
3609-8	3609	10	03/27/09	<0.038	<0.027	<0.022	<0.029	3.1	<0.052	<0.019	<0.018	<0.023	<0.016
3709-8	3709	10	03/27/09	<0.038	<0.027	<0.022	<0.029	5.0	<0.052	<0.019	<0.018	<0.023	<0.016
3809-5	3809	5	03/27/09	<0.038	<0.027	<0.022	<0.029	8.6	<0.052	<0.019	<0.018	<0.023	<0.016
3809-8		8	03/27/09	<0.033	<0.02	<0.022	<0.029	3.0	<0.052	<0.019	<0.018	<0.023	<0.016
Area of Concern 3													
0609-8	0609	8	03/27/09	<0.038	<0.027	<0.022	<0.029	3.6	<0.052	<0.019	<0.018	<0.023	<0.016
0609-20		20	03/24/09	<0.033	<0.02	<0.022	<0.029	2.2	<0.052	<0.019	<0.018	<0.023	<0.016
0709-8	0709	8	03/24/09	<0.038	<0.027	<0.022	<0.029	5.1	<0.052	<0.019	<0.018	<0.023	<0.016
0709-16		16	03/24/09	<0.033	<0.02	<0.022	<0.029	5.7	<0.052	<0.019	<0.018	<0.023	<0.016
0809-16	0809	18	03/24/09	<0.038	<0.027	<0.022	<0.029	7.6	<0.052	<0.019	<0.018	<0.023	<0.016
0909-16	0909	18	03/24/09	<0.038	<0.027	<0.022	<0.029	4.6	<0.052	0.046	<0.018	<0.023	<0.016

Notes:

-- = ESL not established

Values in **bold** indicate analyte detected above the laboratory reporting limit or that reporting limit is above screening level.Values **shaded in blue** indicate analyte detected above "Soil" ESL¹

Only analytes with detections are shown.

1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Soil (mg/kg).

Abbreviations:

ft bgs = feet below ground surface

mg/kg = milligram per kilogram

Table 4. 2009 Soil Analytical Results - Semivolatile Organic Compounds Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Date	1,4-DICHLOROBENZENE	2-METHYLNAPHTHALENE	ACENAPHTHENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZO(B)FLUORANTHENE	BENZO(GH)PERYLENE	BENZO(K)FLUORANTHENE	BIS(2-ETHYLHEXYL)PHthalate	CHRYSENE	FLUORANTHENE	FLUORENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE	
				8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C		
				EPA Method																	
				Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
				Soil ESL ¹	0.59	0.25	16	2.9	0.29	2.9	2.5	2.6	160	3.8	60	8.9	2.9	0.033	11	0.076	85
Area of Concern 1																					
2509-8	2509	8	03/26/09	<0.022	<0.063	<0.027	0.16	0.17	0.12	0.14	0.16	0.085	0.26	0.32	<0.039	0.098	0.035	0.22	0.38	0.41	
2609-8	2609	8	03/26/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.36	<0.15	
2909-7	2909	7	03/26/09	<0.022	0.082	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	0.083	<0.062	0.22	<0.15	
2909-10		10	03/26/09	<0.28	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.52	<0.062	0.97	<0.15	
3009-7	3009	7	03/26/09	<0.022	2.2	0.057	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	0.071	<0.2	0.039	<0.068	0.32	0.12	0.33	0.19	
3009-10		10	03/26/09	<0.28	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.52	<0.062	0.17	<0.15	
3109-8	3109	8	03/26/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	0.89	<0.062	0.093	<0.15	
3109-12		12	03/26/09	<0.28	0.47	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	2.4	<0.062	0.14	<0.15	
Area of Concern 2																					
3209-8	3209	10	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.17	<0.15	
3309-8	3309	10	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.35	<0.15	
3409-5	3409	5	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.17	<0.15	
3409-8		8	03/27/09	<0.28	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.52	<0.062	0.61	<0.15	
3509-5	3509	5	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	0.077	0.31	<0.15	
3509-8		8	03/27/09	<0.28	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	0.077	0.35	<0.15	
3609-8	3609	10	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.74	<0.15	
3709-8	3709	10	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.26	<0.15	
3809-5	3809	5	03/27/09	0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.15	<0.15	
3809-8		8	03/27/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	<0.045	<0.15	
Area of Concern 3																					
0609-8	609	8	03/27/09	<0.022	<0.063	<0.027	0.15	0.21	0.12	0.13	0.19	<0.076	0.19	<0.2	<0.039	0.1	<0.021	<0.062	0.14	0.16	
0609-20		20	03/24/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.66	<0.15	
0709-8	709	8	03/24/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	1.7	<0.15	
0709-16		16	03/24/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0.12	<0.042	<0.076	<0.061	<0.2	<0.039	<0.068	<0.021	<0.062	0.76	<0.15	
0809-16	809	18	03/24/09	<0.022	<0.063	<0.027	<0.078	<0.065	<0.05	<0											

Table 5. 2009 Groundwater Analytical Results - Metals Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			EPA Method	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B	6010B	7761	6010B	6010B	6010B
			Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			Groundwater ESL ¹	6	10	1000	1	0.04	50	3	3.1	0.2	0.051	100	8.2	5	0.19	0.1	19	81
Area of Concern 2																				
1109	1109	13	03/24/09	<13.2	<12.1	227	<0.55	1.12	<3.3	1.5	<3.3	<5.5	<0.02	6.25	8.29	<9.9	<0.04	<14.3	<4.4	<4.4
1209	1209	13	03/24/09	<13.2	12.2	459	<0.55	2.33	86.4	16.5	32	7.51	0.089	8.89	77.8	<9.9	0.16	<14.3	64.6	52.3
1309	1309	13	03/27/09	<13.2	<12.1	261	<0.55	<0.99	8.07	3.52	<3.3	<5.5	<0.02	12.9	12.2	<9.9	<0.04	<14.3	<4.4	6.66
1409	1409	13	03/27/09	<13.2	<12.1	224	<0.55	<0.99	42.6	15.5	28.6	25.4	0.12	11.8	36.2	<9.9	0.06	<14.3	28.1	76.6
1509	1509	13	03/27/09	<13.2	18	3,770	2.75	2.55	370	100	77.3	32.5	0.26	6.49	384	<9.9	0.34	<14.3	311	207
1609	1609	13	03/27/09													Not analyzed - insufficient volume				
3509	3509	13	03/27/09													Not analyzed - insufficient volume				
3609	3609	13	03/27/09													Not analyzed - insufficient volume				
3709	3709	13	03/27/09													Not analyzed - insufficient volume				
Area of Concern 3																				
0109	0109	13	03/23/09	<13.2	<12.1	716	<0.55	<0.99	79.7	10.5	22	<5.5	0.11	7.47	52	<9.9	0.09	<14.3	55.1	61.9
0209	0209	13	03/23/09													Not analyzed - insufficient volume				
0309	0309	13	03/23/09	<13.2	66	3,870	3.91	2.66	606	85.3	132	40.5	0.29	<2.2	414	<9.9	0.58	<14.3	452	325
0409	0409	13	03/23/09													Not analyzed - insufficient volume				
0509	0509	13	03/23/09	<13.2	<12.1	690	<0.55	<0.99	29.2	4.07	5.72	<5.5	0.036	10	21.1	<9.9	0.06	<14.3	14.5	12.8
0609	0609	13	03/24/09													Not analyzed - insufficient volume				
0709	0709	13	03/24/09													Not analyzed - insufficient volume				
0809	0809	13	03/24/09	<13.2	<12.1	729	<0.55	<0.99	14.4	1.18	5.7	<5.5	0.024	2.57	11.4	<9.9	0.041	<14.3	7.52	13.7
0909	0909	13	03/24/09	<13.2	<12.1	392	<0.55	<0.99	7.98	<1.1	<3.3	<5.5	0.023	4.54	6.09	<9.9	<0.04	<14.3	<4.4	<4.4
1009	1009	13	03/24/09													Not analyzed - insufficient volume				

Notes:

-- = ESL not established

Values in **bold** indicate analyte detected above the laboratory reporting limit.Values **shaded in blue** indicate analyte detected above "Groundwater" ESL¹

1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Groundwater (µg/L).

Abbreviations:

ft bgs = feet below ground surface

µg/L = micrograms per liter

Table 6. 2009 Groundwater Analytical Results - Total Petroleum Hydrocarbons
Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	TPH-g	TPH-d	TPH-mo	Oil and Grease
EPA Method				8015B	8015B	8015B	1644
Units				µg/L	µg/L	µg/L	µg/L
Groundwater ESL ¹				100	100	--	--
Area of Concern 1							
1709	1709	13	03/26/09	--	<20	<260	<17
1809	1809	13	03/26/09	--	430 T	<260	--
1909	1909	13	03/26/09	360	<20	<260	<7.1
2009	2009	13	03/26/09	760	280 T	<260	<9.1
2109	2109	13	03/26/09	1,200	<20	<260	<9.3
2209	2209	13	03/26/09	1,100	98 T	<260	<9.1
2309	2309	13	03/26/09	2,500	2,200	2,200	<10
2609	2609	13	03/27/09	<57	<20	<260	<8
2809	2809	13	03/26/09	87 T	<20	<260	<7.1
2909	2909	13	03/27/09	4,900 J	1,200 T	<260	<7.8
Area of Concern 2							
1109	1109	13	03/24/09	<57	<20	<260	<7.3
1209	1209	13	03/24/09	<57	<20	<260	<8
1309	1309	13	03/27/09	<57	<20	7,000	<7
1409	1409	13	03/27/09	<57	<20	<260	<8
1509	1509	13	03/27/09	120	<20	<260	<8
1609	1609	13	03/27/09	--	<20	<260	--
3509	3509	13	03/27/09	--	<20	5,800	<9.4
3609	3609	13	03/27/09	--	--	<260	<11
3709	3709	13	03/27/09	<57	<20	<260	<11
Area of Concern 3							
0109	0109	13	03/23/09	150	<20	22,600	<7.3
0209	0209	13	03/23/09	<57	<20	<260	<8
0309	0309	13	03/23/09	<57	<20	2,200 T	<8.3
0409	0409	13	03/23/09	<57	<20	<260	<8
0509	0509	13	03/23/09	140 J	2,300	24,000	<8
0609	0609	13	03/24/09	<57	<20	1,900 T	<8.2
0709	0709	13	03/24/09	<57	<20	<260	<7.4
0809	0809	13	03/24/09	<57	<20	1,600 T	<8
0909	0909	13	03/24/09	90	<20	13,000	<7.1
1009	1009	13	03/24/09	--	17,600	185,000	7.8

Notes:

-- = ESL not established or analyte not analyzed

Values in **bold** indicate analyte detected above the laboratory reporting limit or reporting limit is above Groundwater ESL.

Values **shaded in blue** indicate analyte detected above "Groundwater" ESL¹

1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Groundwater (µg/L).

ft bgs = feet below ground surface

TPH-g = total petroleum hydrocarbons as gasoline

mg/kg = milligram per kilogram

TPH-d = total petroleum hydrocarbons as diesel

T = A "T" qualifier indicates that diesel/gasoline pattern is atypical.

TPH-mo = total petroleum hydrocarbons as motor oil

J = The result is an estimate quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Table 7. 2009 Groundwater Analytical Results - Volatile Organic Compounds Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	1,1-DICHLORO-2-PROPANONE	1,2,3-TRICHLOROBENZENE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	2-BUTANONE	ACETONE	BENZENE	BROMODICHLOROMETHANE	CARBON DISULFIDE	CHLOROFORM	CIS-1,2-DICHLOROETHENE	ETHYL BENZENE	ETHYL ETHER	HEXAChLOROBUTADIENE	HEXAChLOROETHANE	ISOPROPYLBENZENE	
EPA Method			8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B		
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
Groundwater ESL ¹			--	--	--	--	--	1500	0.15	0.12	--	0.23	6	1.5	--	0.14	0.33	--		
Area of Concern 1																				
1709	1709	13	03/26/09																	
1809	1809	13	03/26/09																	
1909	1909	13	03/26/09	<0.38	<0.82	<0.81	<0.69	<1.7	2.4	4.5	0.73	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	1.3	
2009	2009	13	03/26/09	<0.38	<0.82	9.1	1.4	2.9	7.3	3.9	<0.58	0.69	<0.57	<0.58	5.7	<0.66	<0.84	<0.82	3.4	
2109	2109	13	03/26/09	<0.38	<0.82	59	19	5.2	12	5.6	<0.58	<0.58	<0.61	<0.57	<0.58	24	<0.66	<0.84	<0.82	2.6
2209	2209	13	03/26/09	<0.38	<0.82	1.1	<0.69	4.2	12	6.8	<0.58	0.74	<0.57	<0.58	<0.51	2.1	<0.84	<0.82	7.3	
2309	2309	13	03/26/09	<0.38	<0.82	2.6	1.1	<1.7	7.0	22	<0.58	<0.61	<0.57	<0.58	21	<0.66	<0.84	<0.82	13	
2609	2609	13	03/27/09	<0.38	<0.82	<0.81	<0.69	<1.7	<2	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
2809	2809	13	03/26/09	<0.38	<0.82	<0.81	<0.69	<1.7	<2	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
2909	2909	13	03/27/09	<0.38	<0.82	<0.81	<0.69	22	32	5.8	<0.58	<0.61	<0.57	<0.58	2.8	1.4	<0.84	<0.82	43	
Area of Concern 2																				
1109	1109	13	03/24/09	<0.38	<0.82	<0.81	<0.69	<1.7	<2	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
1209	1209	13	03/24/09	<0.38	<0.82	<0.81	<0.69	<1.7	<2	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
1309	1309	13	03/27/09	<0.38	<0.82	<0.81	<0.69	23	5.4	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
1409	1409	13	03/27/09	<0.38	<0.82	<0.81	UJ	<0.69	UJ	21	4.3	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	UJ
1509	1509	13	03/27/09	<0.38	<0.82	<0.81	<0.69	7.0	6.0	<0.58	<0.58	<0.61	1.5	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
1609	1609	13	03/27/09																	
3509	3509	13	03/27/09																	
3609	3609	13	03/27/09																	
3709	3709	13	03/27/09	<0.38	<0.82	<0.81	<0.69	13	13	0.76	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
Area of Concern 3																				
0109	0109	13	03/23/09	<0.38	1.2	6.5	<0.69	77	17	1.6	<0.58	0.83	<0.57	1.2	<0.51	<0.66	1.0	<0.82	<0.5	
0209	0209	13	03/23/09	<0.38	<0.82	<0.81	<0.69	170	20	<0.58	<0.58	0.70	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
0309	0309	13	03/23/09	<0.38	<0.82	<0.81	<0.69	2.3	<2	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
0409	0409	13	03/23/09	<0.38	<0.82	<0.81	<0.69	<1.7	<2	<0.58	<0.58	0.98	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
0509	0509	13	03/23/09	<0.38	<0.82	4.7	0.83	<1.7	3.9	1.5	<0.58	1.4	<0.57	0.72	<0.51	<0.66	<0.84	<0.82	<0.5	
0609	0609	13	03/24/09	<0.38	<0.82 UJ	<0.81	<0.69	<1.7	4.3	<0.58	<0.58	0.62	<0.57	<0.58	<0.51	<0.66	<0.84	UJ	<0.82	
0709	0709	13	03/24/09	<0.38	<0.82	<0.81	<0.69	30	9.7	<0.58	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
0809	0809	13	03/24/09	<0.38	<0.82	<0.81	<0.69	<1.7	5.7	0.85	<0.58	<0.61	<0.57	<0.58	<0.51	<0.66	<0.84	<0.82	<0.5	
0909	0909	13	03/24/09	0.49	<0.82	2.1	<0.69	2.4	9.0	0.89	<0.58	<0.61	<0.57	1.7	<0.51	<0.66	<0.84	0.88	<0.5	
1009	1009	13	03/24/09																	
Not analyzed - insufficient volume																				

Table 7. 2009 Groundwater Analytical Results - Volatile Organic Compounds Adeline Maintenance Center Technical Memo

Allsite Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	M+P XYLEMES	METHYL-T-BUTYL ETHER	NAPHTHALENE	N-BUTYLBENZENE	NITROBENZENE	N-PROPYLBENZENE	O-XYLENE	P-CHLOROTOLUENE	SEC-BUTYLBENZENE	TERT-BUTYLB ALCOHOL	TETRAHYDROFURAN	TOLUENE	VINYL CHLORIDE	
				8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	
EPA Method				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Units				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Groundwater ESL ¹				20	5	0.17	--	--	--	20	--	--	12	--	40	0.0097	
Area of Concern 1				Not analyzed - sample contained more than 30% soil													
1709	1709	13	03/26/09	<1	<1.2	1.2	<0.79	<1.5	3.4	<0.6	<0.81	<0.68	<5.6	<0.44	0.74	<1.1	
1809	1809	13	03/26/09	Not analyzed - sample contained more than 30% soil													
1909	1909	13	03/26/09	8.1	<1.2	4.2	2.7	<1.5	5.4	2.3	<0.81	1.1	<5.6	<0.44	1.5	<1.1	
2009	2009	13	03/26/09	81	1.4	12	<0.79	<1.5	8.2	34	2.2	<0.68	<5.6	<0.44	7.2	<1.1	
2109	2109	13	03/26/09	1.3	59	1.4	<0.79	<1.5	7.8	<0.6	<0.81	3.2	<5.6	1.4	0.83	<1.1	
2209	2209	13	03/26/09	6.6	1.5	45	<0.79	<1.5	34	3.3	6.5	5.2	<5.6	<0.44	4.0	<1.1	
2309	2309	13	03/26/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
2609	2609	13	03/27/09	<1	<1.2	1.5	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
2809	2809	13	03/26/09	<1	<1.2	1.5	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
2909	2909	13	03/27/09	7.2	1.5	<0.79	19	<1.5	60	4.7	<0.81	11	<5.6	<0.44	4.3	<1.1	
Area of Concern 2				Not analyzed - insufficient volume													
1109	1109	13	03/24/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
1209	1209	13	03/24/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
1309	1309	13	03/27/09	<1	1.4	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
1409	1409	13	03/27/09	<1	<1.2	<0.79	<0.79 UJ	<1.5	<0.63	<0.6	<0.81	<0.68 UJ	<5.6	<0.44	<0.66	<1.1	
1509	1509	13	03/27/09	<1	1.8	<0.79	<0.79	2.9	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
1609	1609	13	03/27/09	Not analyzed - insufficient volume													
3509	3509	13	03/27/09	Not analyzed - sample contained more than 30% soil													
3609	3609	13	03/27/09	Not analyzed - insufficient volume													
3709	3709	13	03/27/09	<1	2.1	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	0.68	<1.1	
Area of Concern 3				Not analyzed - insufficient volume													
0109	0109	13	03/23/09	1.4	<1.2	1.6	<0.79	<1.5	<0.63	4.4	<0.81	<0.68	13	<0.44	<0.66	<1.1	
0209	0209	13	03/23/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
0309	0309	13	03/23/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
0409	0409	13	03/23/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
0509	0509	13	03/23/09	6.7	<1.2	<0.79	<0.79	<1.5	<0.63	3.9	<0.81	<0.68	17	<0.44	<0.66	1.8	
0609	0609	13	03/24/09	<1	<1.2	<0.79 UJ	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
0709	0709	13	03/24/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	<5.6	<0.44	<0.66	<1.1	
0809	0809	13	03/24/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	<0.6	<0.81	<0.68	19	<0.44	<0.66	<1.1	
0909	0909	13	03/24/09	<1	<1.2	<0.79	<0.79	<1.5	<0.63	0.82	<0.81	<0.68	14	<0.44	<0.66	<1.1	
1009	1009	13	03/24/09	Not analyzed - insufficient volume													

Note:
-- ESL not established
Values in bold indicate analyte detected above the laboratory reporting limit or reporting limit is above Groundwater ESL.¹

Values shaded in blue indicate analyte detected above "Groundwater" ESL¹
1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Groundwater (µg/L).

Abbreviations:

ft bgs = feet below ground surface

µg/L = micrograms per liter

ESL = Environmental Screening Level

J = The result is an estimate quantity. The associated numerical value is the approximate

Table 8. 2009 Groundwater Analytical Results -Semivolatile Organic Compounds Adeline Maintenance Center Technical Memo

Alisto Sample ID	Boring Location	Sample Depth (ft bgs)	Sample Date	2-METHYLNAPHTHALENE	ANTHRACENE	BENZO(A)ANTHRACENE	BENZO(A)PYRENE	BENZOIC ACID	BENZYL ALCOHOL	BIS(2-ETHYLHEXYL)PHTHALATE	BUTYLBENZYL PHTHALATE	CHRYSENE	DI-N-BUTYL PHTHALATE	DI-N-OCTYL PHTHALATE	DIETHYL PHTHALATE	FLUORANTHENE	FLUORENE	ISOPHORONE	N-NITROSODIPHENYLAMINE	NAPHTHALENE	PHENANTHRENE	PHENOL	PYRENE	
EPA Method				8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C	8270C		
Units				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Groundwater ESL ¹				2.1	0.73	0.027	0.0034	--	--	4.0	--	0.049	--	--	1.5	8	3.9	--	--	0.17	4.6	5	2	
Area of Concern 2																								
1109	1109	13	03/24/09	<0.43	<0.11	<0.11	<0.11	<1.1	<0.21	<0.53	<0.11	<0.053	<0.21	<0.11	<0.11	<0.21	<0.11	<0.11	<0.21	<0.11	<0.21	<0.11	<0.11	
1209	1209	13	03/24/09	<0.45	<0.11	<0.11	<0.11	<1.1	<0.22	<0.56	<0.11	<0.056	0.3	<0.11	<0.11	<0.11	<0.22	<0.11	<0.11	<0.22	<0.11	<0.11	0.54	<0.11
1309	1309	13	03/27/09	<0.48	<0.12	<0.12	<0.12	<1.2	<0.24	<0.6	0.13	<0.06	<0.24	<0.12	<0.12	<0.24	<0.12	<0.12	<0.24	<0.12	<0.12	1.3	<0.12	
1409	1409	13	03/27/09	<0.56	<0.14	<0.14	<0.14	<1.4	<0.28	<0.69	<0.14	<0.069	<0.28	<0.14	<0.14	<0.28	<0.14	<0.14	<0.28	<0.14	<0.14	1.2	<0.14	
1509	1509	13	03/27/09	<0.49	<0.12	<0.12	<0.12	<1.2	<0.25	<0.62	<0.12	<0.062	<0.25	<0.12	<0.12	<0.12	<0.25	<0.12	<0.12	<0.25	<0.12	1.1	<0.12	
1609	1609	13	03/27/09																					
3509	3509	13	03/27/09																					
3609	3609	13	03/27/09																					
3709	3709	13	03/27/09	<0.53	<0.13	<0.13	<0.13	<1.3	<0.26	<0.66	<0.13	<0.066	<0.26	<0.13	<0.13	<0.13	<0.26	0.18	<0.13	<0.26	<0.13	0.53	<0.13	
Area of Concern 3																								
0109	0109	13	03/23/09	2.1	0.19	0.23	<0.12	7.1	<0.24	7.4	<0.12	0.23	0.43	<0.12	<0.12	0.23	<0.24	<0.12	<0.12	1.0	0.4	7.8	0.52	
0209	0209	13	03/23/09	<0.43	<0.11	<0.11	<0.11	<1.1	<0.21	<0.53	0.23	<0.053	<0.21	<0.11	0.17	<0.11	<0.21	<0.11	<0.11	<0.21	<0.11	9.0	<0.11	
0309	0309	13	03/23/09	<0.51	<0.13	<0.13	<0.13	3.6	0.44	<0.64	0.36	0.12	<0.26	<0.13	0.14	<0.13	<0.26	<0.13	<0.13	<0.26	<0.13	3.6	<0.13	
0409	0409	13	03/23/09	<0.42	<0.11	<0.11	<0.11	<1.1	<0.21	<0.53	0.2	<0.053	<0.21	<0.11	0.41	<0.11	<0.21	<0.11	<0.11	<0.21	<0.11	<0.21	<0.11	
0509	0509	13	03/23/09	<0.49	<0.12	0.13	<0.12	19	<0.24	3.3	0.71	0.098	0.49	<0.12	0.43	0.12	0.27	<0.12	<0.12	<0.24	<0.12	2.7	0.22	
0609	0609	13	03/24/09	<0.39	<0.097	<0.097	<0.097	<0.97	<0.19	<0.49	0.65	<0.049	1.2	<0.097	0.60	<0.097	<0.19	0.14	<0.097	<0.19	<0.097	1.7	<0.097	
0709	0709	13	03/24/09	<0.4	<0.1	<0.1	0.12	<1	<0.2	<0.5	0.53	<0.05	0.35	<0.1	0.17	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	0.3	<0.1	
0809	0809	13	03/24/09	<0.39	<0.098	<0.098	<0.098	<0.98	<0.2	<0.49	0.61	<0.049	0.38	<0.098	0.18	<0.098	<0.2	<0.098	<0.098	<0.2	<0.098	5.0	<0.098	
0909	0909	13	03/24/09	2.5	<0.1	1.6	<0.1	23	<0.2	40	5.9	1.1	2.3	<0.1	1.4	1.8	<0.1	<0.1	<0.1	<0.2	2.4	<0.2	2.9	
1009	1009	13	03/24/09	<0.43	<0.11	0.25	<0.11	6.1	<0.22	5.5	1.2	0.22	1.2	<0.11	0.23	<0.11	0.54	<0.11	1.8	4.4	0.63	<0.22	0.46	

Notes:

-- = ESL not established

Values in **bold** indicate analyte detected above the laboratory reporting limit or reporting limit is above Groundwater ESL¹.

Values **shaded in blue** indicate analyte detected above "Groundwater" ESL¹

Only analytes with detections are shown.

1. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Feb. 2016 (Rev.3), Table T2-1: Tier 2 ESL Input and Output. Inputs: Land Use - Commercial or Industrial; Groundwater Use - Drinking Water Resource; MCL Priority over Risk-Based Levels - No; Intact Building Slab - No -or- Unknown; Groundwater Depth for GW VI - Shallow Groundwater; Soil Type for GW VI - Fine to Coarse Scenario; Soil Contamination Depth - Shallow Soil. Output: Groundwater (µg/L).

Abbreviations:

ft bgs = feet below ground surface

µg/L = micrograms per liter

Enclosure 2. Figures

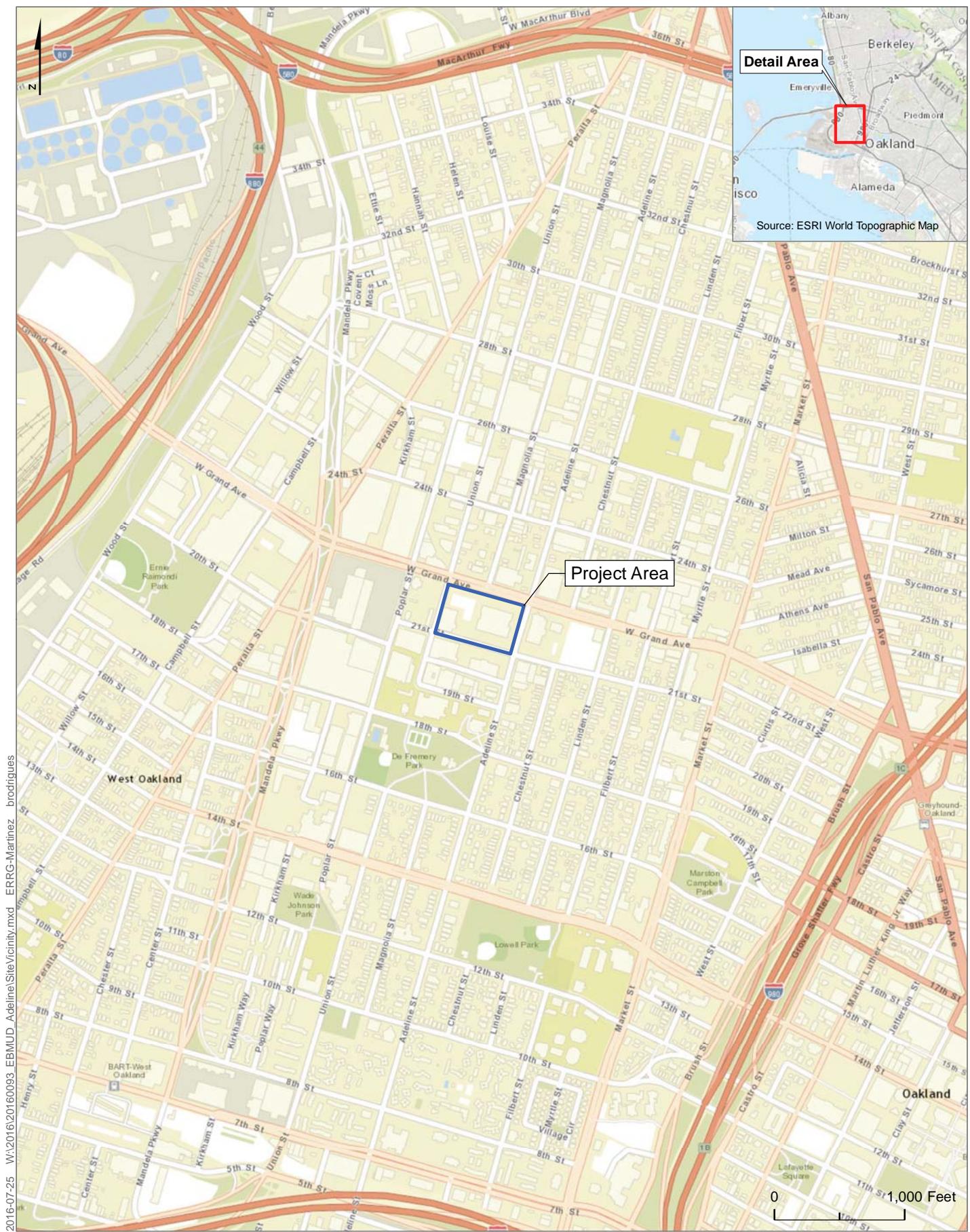


Figure 1. Site Vicinity Map
EBMUD - Adeline Maintenance Center
Oakland, California

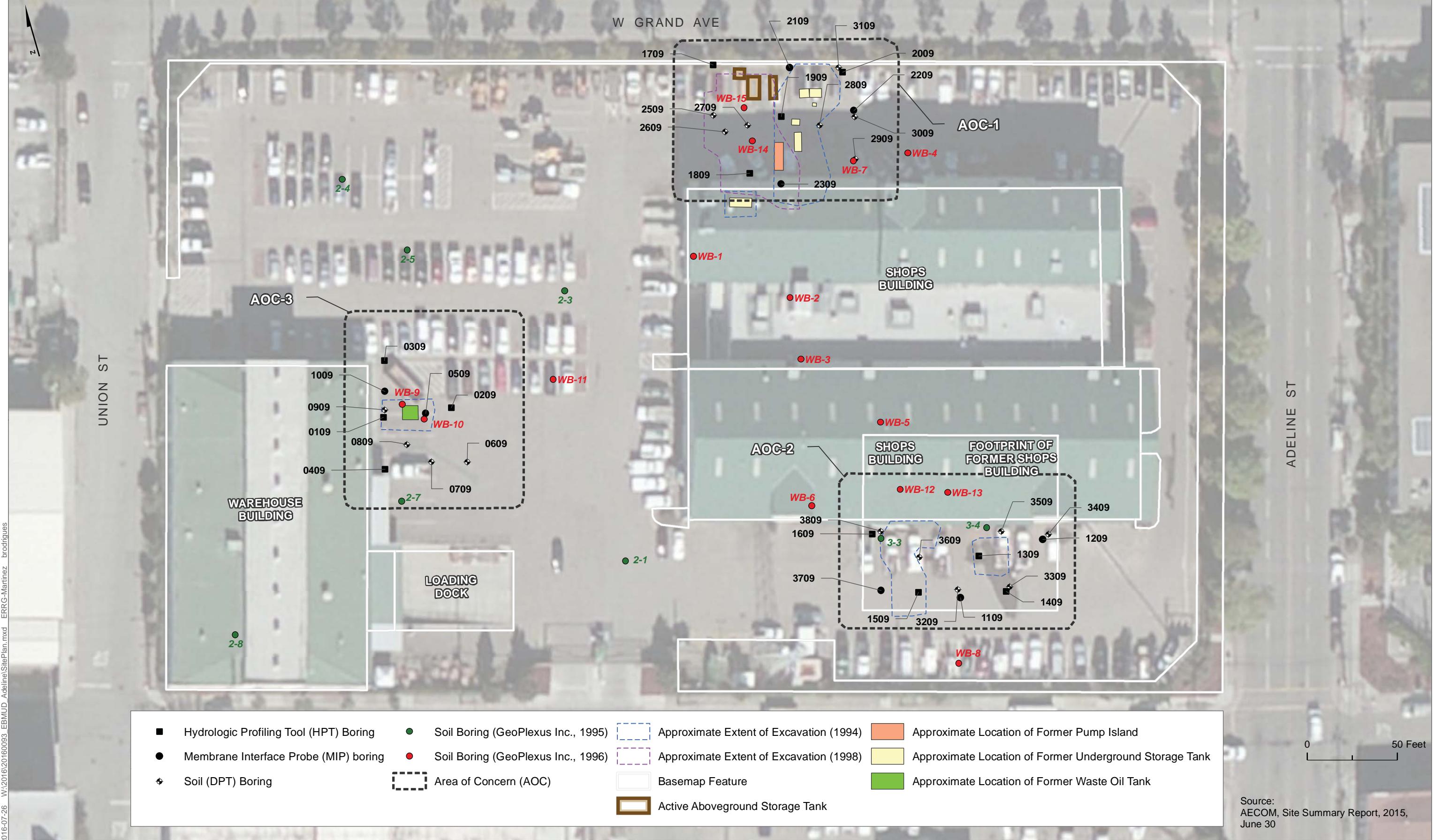


Figure 2. Site Plan

EBMUD - Adeline Maintenance Center
Oakland, California