

**TABLE E-1
LADWP - SYLMAR BASIN WELL INSTALLATION PROJECTS**

Analyte	Method(s)	Units	MONITORING WELL MI-MW-01a							
			MI-MW-01A 10 7/8/14	MI-MW-01A 20 7/8/14	MI-MW-01A 30 7/8/14	MI-MW-01A 40 7/8/14	MI-MW-01A 40B 7/8/14			
VOCs										
Acetone	EPA 8260	µg/kg	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
tert-Amyl Methyl Ether (TAME)	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Benzene	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Bromobenzene	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Bromochloromethane	EPA 8260	µg/kg	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Bromodichloromethane	EPA 8260	µg/kg	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
Bromoform	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Bromomethane	EPA 8260	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Butanone (MEK)	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
tert-Butyl alcohol	EPA 8260	µg/kg	1,865 U	1,865 U	1,865 U	1,865 U	1,865 U	1,865 U	1,865 U	1,865 U
Butylbenzene	EPA 8260	µg/kg	145 U	145 U	145 U	145 U	145 U	145 U	145 U	145 U
sec-Butylbenzene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
tert-Butylbenzene	EPA 8260	µg/kg	145 U	145 U	145 U	145 U	145 U	145 U	145 U	145 U
Ethyl tert-butyl ether (ETBE)	EPA 8260	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Carbon disulfide	EPA 8260	µg/kg	580 U	580 U	580 U	580 U	580 U	580 U	580 U	580 U
Carbon tetrachloride	EPA 8260	µg/kg	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
Chlorobenzene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
Chloroethane	EPA 8260	µg/kg	210 U	210 U	210 U	210 U	210 U	210 U	210 U	210 U
2-Chloroethyl vinyl ether	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Chloroform	EPA 8260	µg/kg	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Chloromethane	EPA 8260	µg/kg	350 U	350 U	350 U	350 U	350 U	350 U	350 U	350 U
2-Chlorotoluene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
4-Chlorotoluene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
Dibromochloromethane	EPA 8260	µg/kg	125 U	125 U	125 U	125 U	125 U	125 U	125 U	125 U
1,2-Dibromo-3-chloropropane	EPA 8260	µg/kg	155 U	155 U	155 U	155 U	155 U	155 U	155 U	155 U
1,2-Dibromoethane	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Dibromomethane	EPA 8260	µg/kg	165 U	165 U	165 U	165 U	165 U	165 U	165 U	165 U
1,2-Dichlorobenzene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
1,3-Dichlorobenzene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
1,4-Dichlorobenzene	EPA 8260	µg/kg	165 U	165 U	165 U	165 U	165 U	165 U	165 U	165 U
Dichlorodifluoromethane	EPA 8260	µg/kg	185 U	185 U	185 U	185 U	185 U	185 U	185 U	185 U
1,1-Dichloroethane	EPA 8260	µg/kg	145 U	145 U	145 U	145 U	145 U	145 U	145 U	145 U
1,2-Dichloroethane	EPA 8260	µg/kg	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
1,1-Dichloroethene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
cis-1,2-Dichloroethene	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
trans-1,2-Dichloroethene	EPA 8260	µg/kg	160 U	160 U	160 U	160 U	160 U	160 U	160 U	160 U
1,2-Dichloropropane	EPA 8260	µg/kg	110 U	110 U	110 U	110 U	110 U	110 U	110 U	110 U
1,3-Dichloropropane	EPA 8260	µg/kg	105 U	105 U	105 U	105 U	105 U	105 U	105 U	105 U
2,2-Dichloropropane	EPA 8260	µg/kg	190 U	190 U	190 U	190 U	190 U	190 U	190 U	190 U
1,1-Dichloropropene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
cis-1,3-Dichloropropene	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
trans-1,3-Dichloropropene	EPA 8260	µg/kg	145 U	145 U	145 U	145 U	145 U	145 U	145 U	145 U
Di-isopropyl ether (DIPE)	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
Ethylbenzene	EPA 8260	µg/kg	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Hexachlorobutadiene	EPA 8260	µg/kg	220 U	220 U	220 U	220 U	220 U	220 U	220 U	220 U
2-Hexanone	EPA 8260	µg/kg	105 U	105 U	105 U	105 U	105 U	105 U	105 U	105 U
Iodomethane	EPA 8260	µg/kg	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Isopropylbenzene	EPA 8260	µg/kg	165 U	165 U	165 U	165 U	165 U	165 U	165 U	165 U
p-Isopropyltoluene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U	140 U	140 U	140 U
Methylene chloride	EPA 8260	µg/kg	155 U	155 U	155 U	155 U	155 U	155 U	155 U	155 U
Methyl isobutyl ketone (MIBK)	EPA 8260	µg/kg	95 U	95 U	95 U	95 U	95 U	95 U	95 U	95 U
Methyl-tert-butyl ether (MTBE)	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Naphthalene	EPA 8260	µg/kg	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Propylbenzene	EPA 8260	µg/kg	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
Styrene	EPA 8260	µg/kg	165 U	165 U	165 U	165 U	165 U	165 U	165 U	165 U
1,1,1,2-Tetrachloroethane	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
1,1,2,2-Tetrachloroethane	EPA 8260	µg/kg	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Tetrachloroethylene	EPA 8260	µg/kg	135 U	135 U	135 U	135 U	135 U	135 U	135 U	135 U
Toluene	EPA 8260	µg/kg	125 U	125 U	125 U	125 U	125 U	125 U	125 U	125 U
1,2,3-Trichlorobenzene	EPA 8260	µg/kg	145 U	145 U	145 U	145 U	145 U	145 U	145 U	145 U
1,2,4-Trichlorobenzene	EPA 8260	µg/kg	155 U	155 U	155 U	155 U	155 U	155 U	155 U	155 U
1,1,1-Trichloroethane	EPA 8260	µg/kg	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
1,1,2-Trichloroethane	EPA 8260	µg/kg	115 U	115 U	115 U	115 U	115 U	115 U	115 U	115 U
Trichloroethylene	EPA 8260	µg/kg	120 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U

**TABLE E-1
LADWP - SYLMAR BASIN WELL INSTALLATION PROJECTS**

Analyte	Method(s)	Units	MONITORING WELL MI-MW-01a				
			MI-MW-01A 10 7/8/14	MI-MW-01A 20 7/8/14	MI-MW-01A 30 7/8/14	MI-MW-01A 40 7/8/14	MI-MW-01A 40B 7/8/14
Trichlorofluoromethane (Freon 11)	EPA 8260	µg/kg	175 U	175 U	175 U	175 U	175 U
1,2,3-Trichloropropane	EPA 8260	µg/kg	110 U	110 U	110 U	110 U	110 U
1,2,4-Trimethylbenzene	EPA 8260	µg/kg	125 U	125 U	125 U	125 U	125 U
1,3,5-Trimethylbenzene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U
Vinyl acetate	EPA 8260	µg/kg	260 U	260 U	260 U	260 U	260 U
Vinyl chloride	EPA 8260	µg/kg	180 U	180 U	180 U	180 U	180 U
o-Xylene	EPA 8260	µg/kg	140 U	140 U	140 U	140 U	140 U
m& p-Xylene	EPA 8260	µg/kg	375 U	375 U	375 U	375 U	375 U
1,4-Dioxane	EPA 8270M	µg/kg	210 U	230 U	230 U	210 U	230 U
Perchlorate	EPA 314.0M	µg/kg	30 U	30 U	30 U	30 U	30 U

Notes:

U: analyte not detected above referenced laboratory MRL

Bolded and shaded values indicate analyte detection.

**TABLE E-1
SUMMARY OF GEOCHEMICAL AND WATER QUALITY PARAMETERS - SOIL SAMPLES
LADWP - SYLMAR BASIN WELL INSTALLATION PROJECTS**

Analyte	Method(s)	Units	MONITORING WELL MI-PW-08		
			MI-PW-08-UNSAT-20 01/05/15	MI-PW-08-UNSAT-20-(DUP) 01/05/15	MI-PW-08-SAT-60 01/05/15
VOCs					
Acetone	EPA 8260B	µg/kg	160 U	--	160 U
tert-Amyl methyl ether	EPA 8260B	µg/kg	115 U	--	115 U
Benzene	EPA 8260B	µg/kg	130 U	--	130 U
Bromobenzene	EPA 8260B	µg/kg	130 U	--	130 U
Bromochloromethane	EPA 8260B	µg/kg	120 U	--	120 U
Bromodichloromethane	EPA 8260B	µg/kg	110 U	--	110 U
Bromoform	EPA 8260B	µg/kg	115 U	--	115 U
Bromomethane	EPA 8260B	µg/kg	100 U	--	100 U
2-Butanone (MEK)	EPA 8260B	µg/kg	130 U	--	130 U
tert-Butyl alcohol	EPA 8260B	µg/kg	1,865 U	--	1,865 U
Butylbenzene	EPA 8260B	µg/kg	145 U	--	145 U
sec-Butylbenzene	EPA 8260B	µg/kg	135 U	--	135 U
tert-Butylbenzene	EPA 8260B	µg/kg	145 U	--	145 U
Ethyl tert-butyl ether (ETBE)	EPA 8260B	µg/kg	100 U	--	100 U
Carbon disulfide	EPA 8260B	µg/kg	580 U	--	580 U
Carbon tetrachloride	EPA 8260B	µg/kg	160 U	--	160 U
Chlorobenzene	EPA 8260B	µg/kg	140 U	--	140 U
Chloroethane	EPA 8260B	µg/kg	210 U	--	210 U
2-Chloroethyl vinyl ether	EPA 8260B	µg/kg	115 U	--	115 U
Chloroform	EPA 8260B	µg/kg	150 U	--	150 U
Chloromethane	EPA 8260B	µg/kg	350 U	--	350 U
2-Chlorotoluene	EPA 8260B	µg/kg	135 U	--	135 U
4-Chlorotoluene	EPA 8260B	µg/kg	140 U	--	140 U
Dibromochloromethane	EPA 8260B	µg/kg	125 U	--	125 U
1,2-Dibromo-3-chloropropane	EPA 8260B	µg/kg	155 U	--	155 U
1,2-Dibromoethane	EPA 8260B	µg/kg	115 U	--	115 U
Dibromomethane	EPA 8260B	µg/kg	165 U	--	165 U
1,2-Dichlorobenzene	EPA 8260B	µg/kg	135 U	--	135 U
1,3-Dichlorobenzene	EPA 8260B	µg/kg	135 U	--	135 U
1,4-Dichlorobenzene	EPA 8260B	µg/kg	165 U	--	165 U
Dichlorodifluoromethane	EPA 8260B	µg/kg	185 U	--	185 U
1,1-Dichloroethane	EPA 8260B	µg/kg	145 U	--	145 U
1,2-Dichloroethane	EPA 8260B	µg/kg	110 U	--	110 U
1,1-Dichloroethene	EPA 8260B	µg/kg	140 U	--	140 U
cis-1,2-Dichloroethene	EPA 8260B	µg/kg	130 U	--	130 U
trans-1,2-Dichloroethene	EPA 8260B	µg/kg	160 U	--	160 U
1,2-Dichloropropane	EPA 8260B	µg/kg	110 U	--	110 U
1,3-Dichloropropane	EPA 8260B	µg/kg	105 U	--	105 U
2,2-Dichloropropane	EPA 8260B	µg/kg	190 U	--	190 U
1,1-Dichloropropene	EPA 8260B	µg/kg	135 U	--	135 U
cis-1,3-Dichloropropene	EPA 8260B	µg/kg	130 U	--	130 U
trans-1,3-Dichloropropene	EPA 8260B	µg/kg	145 U	--	145 U
Di-isopropyl ether (DIPE)	EPA 8260B	µg/kg	130 U	--	130 U
Ethylbenzene	EPA 8260B	µg/kg	150 U	--	150 U
Hexachlorobutadiene	EPA 8260B	µg/kg	220 U	--	220 U
2-Hexanone	EPA 8260B	µg/kg	105 U	--	105 U
Iodomethane	EPA 8260B	µg/kg	100 U	--	100 U
Isopropylbenzene	EPA 8260B	µg/kg	165 U	--	165 U
p-Isopropyltoluene	EPA 8260B	µg/kg	140 U	--	140 U
Methylene chloride	EPA 8260B	µg/kg	155 U	--	155 U
Methyl isobutyl ketone (MIBK)	EPA 8260B	µg/kg	95 U	--	95 U
Methyl-tert-butyl ether (MTBE)	EPA 8260B	µg/kg	115 U	--	115 U
Naphthalene	EPA 8260B	µg/kg	150 U	--	150 U
Propylbenzene	EPA 8260B	µg/kg	150 U	--	150 U
Styrene	EPA 8260B	µg/kg	165 U	--	165 U
1,1,1,2-Tetrachloroethane	EPA 8260B	µg/kg	115 U	--	115 U
1,1,2,2-Tetrachloroethane	EPA 8260B	µg/kg	200 U	--	200 U
Tetrachloroethylene	EPA 8260B	µg/kg	135 U	--	135 U
Toluene	EPA 8260B	µg/kg	125 U	--	125 U
1,2,3-Trichlorobenzene	EPA 8260B	µg/kg	145 U	--	145 U

**TABLE E-1
SUMMARY OF GEOCHEMICAL AND WATER QUALITY PARAMETERS - SOIL SAMPLES
LADWP - SYLMAR BASIN WELL INSTALLATION PROJECTS**

Analyte	Method(s)	Units	PRODUCTION WELL MI-PW-08		
			MI-PW-08-UNSAT-20 01/05/15	MI-PW-08-UNSAT-20-(DUP) 01/05/15	MI-PW-08-SAT-60 01/05/15
1,2,4-Trichlorobenzene	EPA 8260B	µg/kg	155 U	--	155 U
1,1,1-Trichloroethane	EPA 8260B	µg/kg	130 U	--	130 U
1,1,2-Trichloroethane	EPA 8260B	µg/kg	115 U	--	115 U
Trichloroethylene	EPA 8260B	µg/kg	120 U	--	120 U
Trichlorofluoromethane (Freon 11)	EPA 8260B	µg/kg	175 U	--	175 U
1,2,3-Trichloropropane	EPA 8260B	µg/kg	110 U	--	110 U
1,2,4-Trimethylbenzene	EPA 8260B	µg/kg	125 U	--	125 U
1,3,5-Trimethylbenzene	EPA 8260B	µg/kg	140 U	--	140 U
Vinyl acetate	EPA 8260B	µg/kg	260 U	--	260 U
Vinyl chloride	EPA 8260B	µg/kg	180 U	--	180 U
o-Xylene	EPA 8260B	µg/kg	140 U	--	140 U
m& p-Xylene	EPA 8260B	µg/kg	375 U	--	375 U
Metals					
Antimony	EPA 6010B	mg/kg	1.09 J	1.14 J	1.51 J
Arsenic	EPA 6010B	mg/kg	3.5 U	3.5 U	3.5 U
Barium	EPA 6010B	mg/kg	142	148	158
Beryllium	EPA 6010B	mg/kg	3.0 U	3.0 U	0.627 J
Cadmium	EPA 6010B	mg/kg	1.67	1.66	2.06
Chromium, Total	EPA 6010B	mg/kg	23.8	23.4	31.5
Cobalt	EPA 6010B	mg/kg	8.20	8.12	8.99
Copper	EPA 6010B	mg/kg	2.55 J	2.36 J	5.41 J
Lead	EPA 6010B	mg/kg	11.2	11.0	14.5
Molybdenum	EPA 6010B	mg/kg	0.340 J	0.384 J	1.5 U
Nickel	EPA 6010B	mg/kg	18.1	18.0	23.9
Selenium	EPA 6010B	mg/kg	2.5 U	2.5 U	2.5 U
Silver	EPA 6010B	mg/kg	3.0 U	3.0 U	3.0 U
Thallium	EPA 6010B	mg/kg	3.0 U	1.0 U	1.0 U
Vanadium	EPA 6010B	mg/kg	46.0	45.8	57.6
Zinc	EPA 6010B	mg/kg	52.9	50.9	64.7
Mercury	EPA 7471	mg/kg	0.025	--	0.0307
TEPH	EPA 8015M	mg/kg	4.8 U	--	4.8 U

Notes:

J: Analyte concentration is above the MDL and below the reporting limit.

U: Analyte not detected above referenced laboratory method reporting limit.

Bolded and shaded values indicate analyte detection.

**TABLE E-1
SUMMARY OF GEOCHEMICAL AND WATER QUALITY PARAMETERS - SOIL SAMPLES
LADWP - SYLMAR BASIN WELL INSTALLATION PROJECTS**

Analyte	Method(s)	Units	MONITORING WELL MI-PW-08			Tier 1 Soil ESLs (mg/kg) Source: CA Waterboards
			MI-PW-08-UNSAT-20 01/05/15	MI-PW-08-UNSAT-20-(DUP) 01/05/15	MI-PW-08-SAT-60 01/05/15	
Metals						
Antimony	EPA 6010B	mg/kg	1.09 J	1.14 J	1.51 J	31
Arsenic	EPA 6010B	mg/kg	3.5 U	3.5 U	3.5 U	
Barium	EPA 6010B	mg/kg	142	148	158	3,000
Beryllium	EPA 6010B	mg/kg	3.0 U	3.0 U	0.627 J	42
Cadmium	EPA 6010B	mg/kg	1.67	1.66	2.06	39
Chromium, Total	EPA 6010B	mg/kg	23.8	23.4	31.5	--
Cobalt	EPA 6010B	mg/kg	8.20	8.12	8.99	23
Copper	EPA 6010B	mg/kg	2.55 J	2.36 J	5.41 J	3,100
Lead	EPA 6010B	mg/kg	11.2	11.0	14.5	80
Molybdenum	EPA 6010B	mg/kg	0.340 J	0.384 J	1.5 U	390
Nickel	EPA 6010B	mg/kg	18.1	18.0	23.9	86
Selenium	EPA 6010B	mg/kg	2.5 U	2.5 U	2.5 U	
Silver	EPA 6010B	mg/kg	3.0 U	3.0 U	3.0 U	
Thallium	EPA 6010B	mg/kg	3.0 U	1.0 U	1.0 U	
Vanadium	EPA 6010B	mg/kg	46.0	45.8	57.6	390
Zinc	EPA 6010B	mg/kg	52.9	50.9	64.7	23,000
Mercury	EPA 7471	mg/kg	0.025	--	0.0307	13
TEPH	EPA 8015M	mg/kg	4.8 U	--	4.8 U	

Notes:

J: Analyte concentration is above the MDL and below the reporting limit.
U: Analyte not detected above referenced laboratory method reporting limit.
Bolded and shaded values indicate analyte detection.

ESLs from CA Waterboards source:

http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/ESL/ESL%20Workbook_ESLs_Interim%20Final_22Feb16_Rev3_PDF.p