

FIGURES

S:\m\A0006_Lower-Duvernish_Various\A0006_15B\Fig1_1_ExistNewMWs_10272010.mxd - 11/5/2010 @ 10:59:51 AM

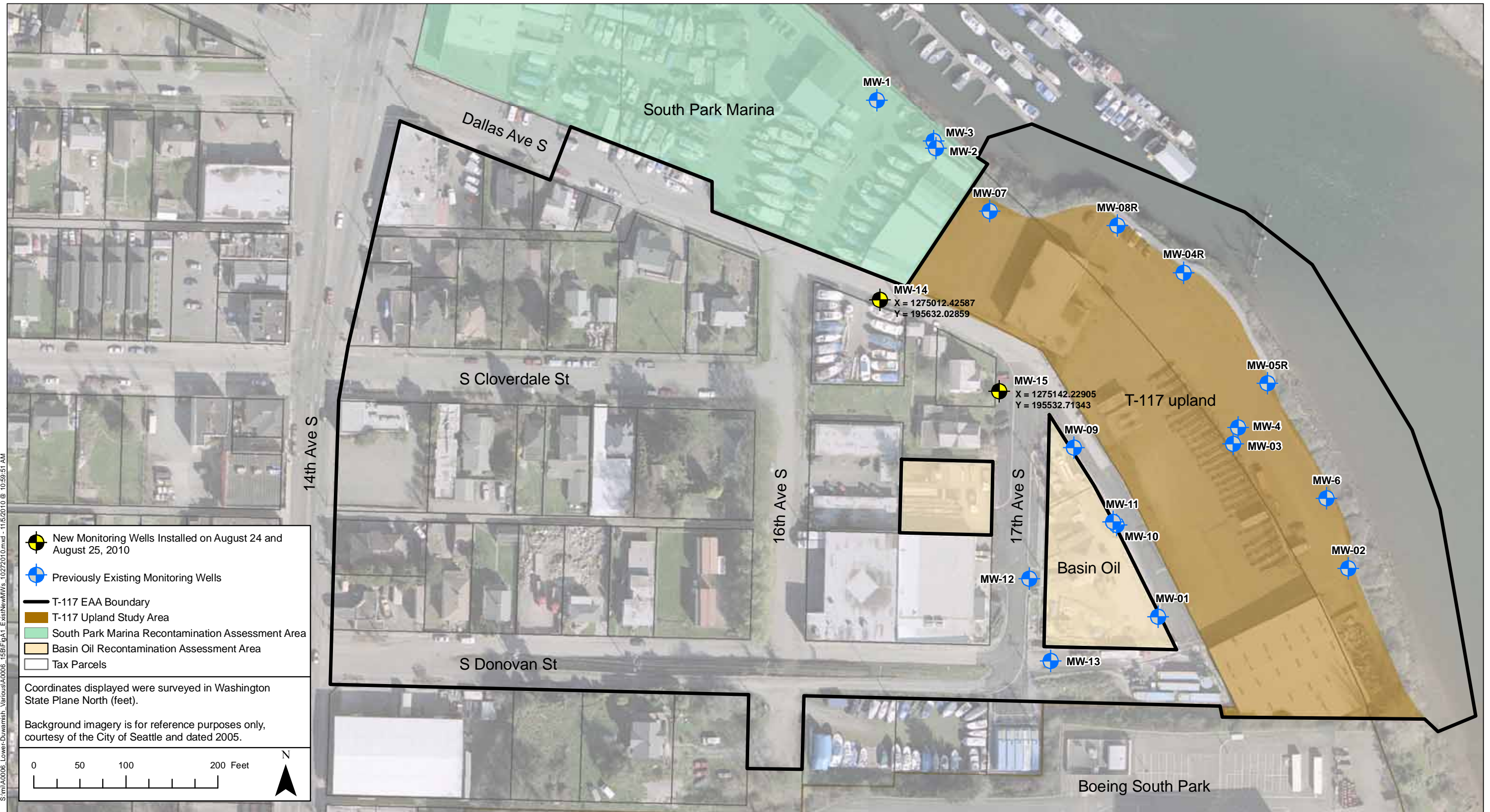


Figure 1. Previously Existing and New Monitoring Wells T117 Early Action Area

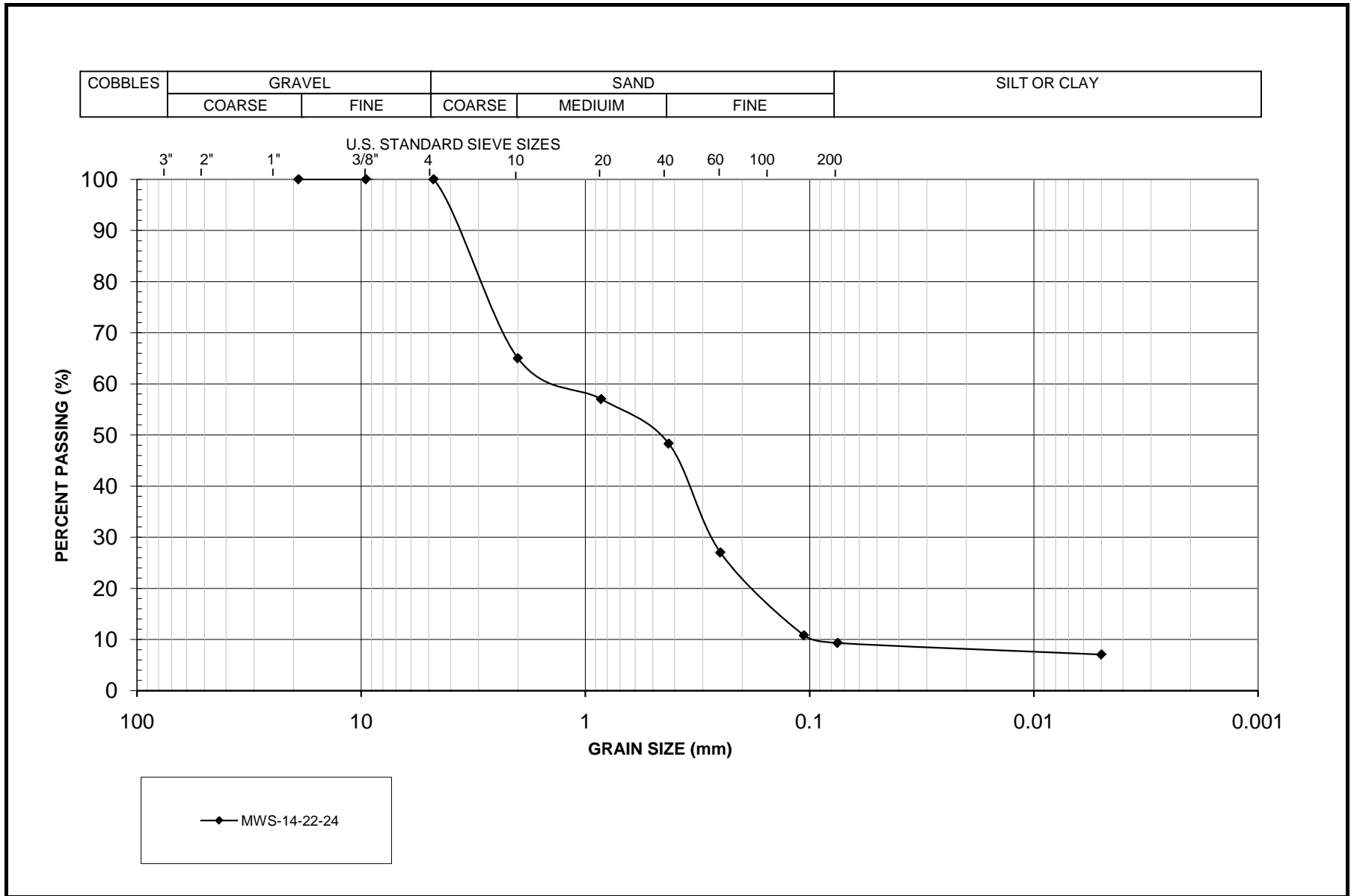


Figure 2. MW-14 Grain Size Distribution Plot

TABLES

Table 1. Groundwater Profiling Final Field Parameters

Well	Interval (ft bgs)	Date	Time	Borehole Volume ^a (gal)	Volume Collected (gal)	Field Parameters					
						Temp. (°C)	Turbidity (NTUs)	pH (unitless)	Cond. (mS/cm)	ORP (mV)	DO (mg/L)
MW-14	15–17	8/24/2010	13:05	0.14	7.2	15.50	10.7	6.43	0.316	288	5.46
MW-14	17–19	8/24/2010	14:23	0.21	5.7	15.6	3.5	6.42	0.597	95	1.12
MW-14	19–21	8/24/2010	15:28	0.19	4.5	16.5	13.9	6.53	0.586	89	0.58
MW-15	14–16	8/25/2010	11:14	1.2	6.4	14.69	1.4	6.20	0.293	317	7.74
MW-15	16–18	8/25/2010	12:26	0.2	1.3	20.9	2.5	6.9	0.715	166	8.07

Notes:

^a Borehole volume is for the 2-ft interval being sampled.

Table 2. Monitoring Well Development Final Field Parameters

Well	Date	Time	Well Volume (gal)	Volume Collected (gal)	Field Parameters					
					Temp. (°C)	Turbidity (NTUs)	pH (unitless)	Cond. (mS/cm)	ORP (mV)	DO (mg/L)
MW-14	8/25/2010	13:50 ^a	1.1	45	12.92	0.1	6.4	0.408	149	7.35
MW-15	8/26/2010	13:58	0.6	7.0	14.79	0.9	6.4	0.527	35	4.00

Notes:

^a Estimated time.

Table 3. Measured Water Levels and Surveyed Top-of-Casing Well Elevations

Monitoring Well	Depth to Water (ft) ^a	Top-of-Casing Elevation (ft) ^b
MW-09	14.96	--
MW-10	14.30	--
MW-11	14.49	--
MW-12	6.68	--
MW-14	14.29	9.39
MW-15	14.58	9.70

Notes:

-- = Well not surveyed on September 9, 2010

^a Below top of casing, as measured on August 26, 2010.

^b As surveyed on September 9, 2010.

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		6 to 8 ft bgs 8/24/2010	6 to 8 ft bgs 8/24/2010	8 to 10 ft bgs 8/24/2010	22 to 24 ft bgs 8/24/2010	6 to 8 ft bgs 8/25/2010	8 to 10 ft bgs 8/25/2010	20 to 22 ft bgs 8/25/2010
	Screening Level							
Total solids (%)	NV ^{a,b}	93.2	93	94.7	N/A	85.9	91.1	N/A
Grain Size Distribution (% retained)								
19.0 mm	NV ^{a,b}	N/A	N/A	N/A	0	N/A	N/A	0
9.50 mm	NV ^{a,b}	N/A	N/A	N/A	0	N/A	N/A	0
4.75 mm	NV ^{a,b}	N/A	N/A	N/A	0	N/A	N/A	0
2.00 mm	NV ^{a,b}	N/A	N/A	N/A	35	N/A	N/A	28.8
0.850 mm	NV ^{a,b}	N/A	N/A	N/A	8	N/A	N/A	5
0.425 mm	NV ^{a,b}	N/A	N/A	N/A	8.7	N/A	N/A	9.6
0.250 mm	NV ^{a,b}	N/A	N/A	N/A	21.3	N/A	N/A	12.9
0.106 mm	NV ^{a,b}	N/A	N/A	N/A	16.2	N/A	N/A	16
0.0750 mm	NV ^{a,b}	N/A	N/A	N/A	1.49	N/A	N/A	3.4
0.074 mm- 0.005 mm	NV ^{a,b}	N/A	N/A	N/A	2.26	N/A	N/A	13.4
< 0.005 mm	NV ^{a,b}	N/A	N/A	N/A	7.05	N/A	N/A	10.9
Metals (mg/kg dw)								
Arsenic	0.67	0.38 J	0.44 J	0.85	N/A	2	0.69	N/A
Total Petroleum Hydrocarbons (mg/kg dw)								
Residual range organics	2000	3.1 U	3.1 U	13 J	N/A	3.4 U	3.2 U	N/A
TPH as diesel	2000	1.3 U	1.3 U	2.3 J	N/A	1.4 U	1.4 U	N/A
Gasoline range organics-NWTPH	100 ^{a,c}	1.7 U	1.7 U	1.6 U	N/A	1.9 U	1.8 U	N/A
Polycyclic Aromatic Hydrocarbons (µg/kg dw)								
2-Methylnaphthalene	320000	0.46 U	0.46 U	1.1 J	N/A	0.46 U	0.46 U	N/A
Acenaphthene	4800000	0.76 U	0.76 U	0.76 U	N/A	0.76 U	0.76 U	N/A
Acenaphthylene	4800000	0.59 U	0.59 U	1.8 J	N/A	0.59 U	0.59 U	N/A
Anthracene	24000000	0.58 U	0.58 U	2.6	N/A	0.58 U	0.58 U	N/A
Benzo[a]anthracene ^d	NV	0.72 U	0.72 U	25	N/A	0.72 U	0.72 U	N/A
Benzo[a]pyrene ^d	NV	0.76 U	0.76 U	44	N/A	0.76 U	0.76 U	N/A
Benzo[b]fluoranthene ^d	NV	0.92 U	0.92 U	47	N/A	0.92 U	0.92 U	N/A
Benzo[g,h,i]perylene	NV	0.85 U	0.85 U	48	N/A	0.85 U	0.85 U	N/A
Benzo[k]fluoranthene ^d	NV	0.87 U	0.87 U	16	N/A	0.87 U	0.87 U	N/A
Chrysene ^d	NV	0.8 U	0.8 U	29	N/A	0.8 U	0.8 U	N/A
Dibenzo[a,h]anthracene ^d	NV	0.8 U	0.8 U	5.7	N/A	0.8 U	0.8 U	N/A
Dibenzofuran	160000	0.63 U	0.63 U	0.63 U	N/A	0.63 U	0.63 U	N/A
Fluoranthene	3200000	0.98 U	0.98 U	40	N/A	0.98 U	0.98 U	N/A
Fluorene	3200000	0.61 U	0.61 U	0.62 J	N/A	0.61 U	0.61 U	N/A
Indeno[1,2,3-cd]pyrene ^d	NV	0.87 U	0.87 U	43	N/A	0.87 U	0.87 U	N/A
Naphthalene	1600000	0.62 U	0.81 U	2.3 U	N/A	0.78 U	0.71 U	N/A
Phenanthrene	3200000	1.4 U	1.4 U	7	N/A	1.4 U	1.4 U	N/A
Pyrene	2400000	0.76 U	0.76 U	55	N/A	0.76 U	0.76 U	N/A
Benzo[a]pyrene TEQ (calculated) ^e	140	0.71 U	0.71 U	60	N/A	0.71 U	0.71 U	N/A
Semi-Volatile Organic Compounds (µg/kg dw)								
1,2,4-Trichlorobenzene	800000	2.6 U	2.6 U	2.6 U	N/A	2.6 U	2.6 U	N/A

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		6 to 8 ft bgs 8/24/2010	6 to 8 ft bgs 8/24/2010	8 to 10 ft bgs 8/24/2010	22 to 24 ft bgs 8/24/2010	6 to 8 ft bgs 8/25/2010	8 to 10 ft bgs 8/25/2010	20 to 22 ft bgs 8/25/2010
	Screening Level							
1,2-Dichlorobenzene	7200000	2.9 U	2.9 U	2.9 U	N/A	2.9 U	2.9 U	N/A
1,3-Dichlorobenzene	NV	3 U	3 U	3 U	N/A	3 U	3 U	N/A
1,4-Dichlorobenzene	42000	2.9 U	2.9 U	2.9 U	N/A	2.9 U	2.9 U	N/A
2,4,5-Trichlorophenol	8000000	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
2,4,6-Trichlorophenol	91000	1.4 U	1.4 U	1.4 U	N/A	1.4 U	1.4 U	N/A
2,4-Dichlorophenol	240000	1 U	1 U	1 U	N/A	1 U	1 U	N/A
2,4-Dimethylphenol	1600000	5.5 U	5.5 U	5.5 U	N/A	5.5 U	5.5 U	N/A
2,4-Dinitrophenol	160000	17 U	17 U	17 U	N/A	17 U	17 U	N/A
2,4-Dinitrotoluene	160000	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
2,6-Dinitrotoluene	80000	2 U	2 U	2 U	N/A	2 U	2 U	N/A
2-Chloronaphthalene	6400000	1.6 U	1.6 U	1.6 U	N/A	1.6 U	1.6 U	N/A
2-Chlorophenol	400000	2 U	2 U	2 U	N/A	2 U	2 U	N/A
2-Methylphenol	4000000	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
2-Nitroaniline	NV	3.2 U	3.2 U	3.2 U	N/A	3.2 U	3.2 U	N/A
2-Nitrophenol	NV	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
3,3'-Dichlorobenzidine	NV	3.7 U	3.7 U	3.7 U	N/A	3.7 U	3.7 U	N/A
3-Nitroaniline	NV	2.5 U	2.5 U	2.5 U	N/A	2.5 U	2.5 U	N/A
4,6-Dinitro-2-methylphenol	NV	1.4 U	1.4 U	1.4 U	N/A	1.4 U	1.4 U	N/A
4-Bromophenyl-phenylether	NV	1.6 U	1.6 U	1.6 U	N/A	1.6 U	1.6 U	N/A
4-Chloro-3-methylphenol	NV	1.4 U	1.4 U	1.4 U	N/A	1.4 U	1.4 U	N/A
4-Chloroaniline	320000	1.9 U	1.9 U	1.9 U	N/A	1.9 U	1.9 U	N/A
4-Chlorophenyl-phenylether	NV	1.4 U	1.4 U	1.4 U	N/A	1.4 U	1.4 U	N/A
4-Methylphenol	400000	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
4-Nitroaniline	NV	1.8 U	1.8 U	1.8 U	N/A	1.8 U	1.8 U	N/A
4-Nitrophenol	NV	18 U	18 U	18 U	N/A	18 U	18 U	N/A
Benzoic acid	32000000	96 U	96 U	96 U	N/A	96 U	96 U	N/A
Benzyl alcohol	24000000	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Bis(2-chloroethoxy)methane	NV	1.5 U	1.5 U	1.5 U	N/A	1.5 U	1.5 U	N/A
Bis(2-chloroethyl)ether	910	1.9 U	1.9 U	1.9 U	N/A	1.9 U	1.9 U	N/A
Bis(2-chloroisopropyl) ether	320000	2.6 U	2.6 U	2.6 U	N/A	2.6 U	2.6 U	N/A
Bis(2-ethylhexyl) phthalate	71000	7 U	7 U	8 J	N/A	7 U	7 U	N/A
Butyl benzyl phthalate	16000000	3.2 U	3.2 U	3.2 U	N/A	3.2 U	3.2 U	N/A
Dibenzofuran	160000	1.2 U	1.2 U	1.2 U	N/A	1.2 U	1.2 U	N/A
Diethyl phthalate	64000000	1.3 U	1.4 J	2.5 J	N/A	1.3 U	1.3 U	N/A
Dimethyl phthalate	80000000	1 U	1 U	1.6 J	N/A	1 U	1 U	N/A
Di-n-butyl phthalate	8000000	7.9 U	7.9 U	7.9 U	N/A	7.9 U	7.9 U	N/A
Di-n-octylphthalate	1600000	1.7 U	1.7 U	1.7 U	N/A	1.7 U	1.7 U	N/A
Hexachlorobenzene	630	1.2 U	1.2 U	1.2 U	N/A	1.2 U	1.2 U	N/A

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		6 to 8 ft bgs 8/24/2010	6 to 8 ft bgs 8/24/2010	8 to 10 ft bgs 8/24/2010	22 to 24 ft bgs 8/24/2010	6 to 8 ft bgs 8/25/2010	8 to 10 ft bgs 8/25/2010	20 to 22 ft bgs 8/25/2010
	Screening Level							
Hexachlorobutadiene	13000	2.5 U	2.5 U	2.5 U	N/A	2.5 U	2.5 U	N/A
Hexachlorocyclopentadiene	480000	29 U	29 U	29 U	N/A	29 U	29 U	N/A
Hexachloroethane	71000	3.1 U	3.1 U	3.1 U	N/A	3.1 U	3.1 U	N/A
Isophorone	1100000	1 U	1 U	1 U	N/A	1 U	1 U	N/A
Nitrobenzene	40000	2.2 U	2.2 U	2.2 U	N/A	2.2 U	2.2 U	N/A
<i>n</i> -Nitroso-di- <i>n</i> -propylamine	140	2.4 U	2.4 U	2.4 U	N/A	2.4 U	2.4 U	N/A
<i>n</i> -Nitrosodiphenylamine	200000	1.6 U	1.6 U	1.6 U	N/A	1.6 U	1.6 U	N/A
Pentachlorophenol	8300	20 U	20 U	20 U	N/A	20 U	20 U	N/A
Phenol	48000000	2 U	2 U	2 U	N/A	2 U	2 U	N/A
Volatile Organic Compounds (µg/kg dw)								
1,1,1,2-Tetrachloroethane	38000 ^{a,b}	0.33 U	0.33 U	0.28 U	N/A	0.33 U	0.31 U	N/A
1,1,1-Trichloroethane	16000000 ^{a,b}	0.46 U	0.46 U	0.39 U	N/A	0.46 U	0.43 U	N/A
1,1,2,2-Tetrachloroethane	5000 ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
1,1,2-Trichloroethane	18000 ^{a,b}	0.3 U	0.3 U	0.26 U	N/A	0.3 U	0.28 U	N/A
1,1-Dichloroethane	16000000 ^{a,b}	0.26 U	0.26 U	0.23 U	N/A	0.26 U	0.25 U	N/A
1,1-Dichloroethene	4000000 ^{a,b}	0.3 U	0.3 U	0.26 U	N/A	0.3 U	0.28 U	N/A
1,1-Dichloropropene	NV ^{a,b}	0.35 U	0.35 U	0.3 U	N/A	0.35 U	0.33 U	N/A
1,2,3-Trichlorobenzene	NV ^{a,b}	0.28 U	0.28 U	0.24 U	N/A	0.28 U	0.26 U	N/A
1,2,3-Trichloropropane	140 ^{a,b}	0.5 U	0.5 U	0.42 U	N/A	0.49 U	0.47 U	N/A
1,2,4-Trichlorobenzene	800000 ^{a,b}	0.3 U	0.3 U	0.26 U	N/A	0.3 U	0.28 U	N/A
1,2,4-Trimethylbenzene	4000000 ^{a,b}	0.37 U	0.37 U	0.31 U	N/A	0.37 U	0.34 U	N/A
1,2-Dibromo-3-chloropropane (DBCP)	710 ^{a,b}	0.86 U	0.86 U	0.73 U	N/A	0.85 U	0.8 U	N/A
1,2-Dibromoethane (ethylene dibromide)	500 ^{a,b}	0.35 U	0.35 U	0.3 U	N/A	0.35 U	0.33 U	N/A
1,2-Dichlorobenzene	720000 ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
1,2-Dichloroethane	11000 ^{a,b}	0.2 U	0.2 U	0.17 U	N/A	0.2 U	0.19 U	N/A
1,2-Dichloropropane	15000 ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
1,3,5-Trimethylbenzene	4000000 ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
1,3-Dichlorobenzene	NV ^{a,b}	0.31 U	0.32 U	0.27 U	N/A	0.31 U	0.3 U	N/A
1,3-Dichloropropane	NV ^{a,b}	0.26 U	0.26 U	0.23 U	N/A	0.26 U	0.25 U	N/A
1,4-Dichlorobenzene	42000 ^{a,b}	0.33 U	0.33 U	0.28 U	N/A	0.33 U	0.31 U	N/A
2,2-Dichloropropane	NV ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
2-Butanone	48000000 ^{a,b}	1.3 U	1.3 U	1.1 U	N/A	1.3 U	1.2 U	N/A
2-Chlorotoluene	1600000 ^{a,b}	0.38 U	0.38 U	0.33 U	N/A	0.38 U	0.36 U	N/A
2-Hexanone	NV ^{a,b}	1.2 U	1.3 U	1.1 U	N/A	1.2 U	1.2 U	N/A
4-Chlorotoluene	NV ^{a,b}	0.34 U	0.34 U	0.29 U	N/A	0.34 U	0.32 U	N/A

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		6 to 8 ft bgs 8/24/2010	6 to 8 ft bgs 8/24/2010	8 to 10 ft bgs 8/24/2010	22 to 24 ft bgs 8/24/2010	6 to 8 ft bgs 8/25/2010	8 to 10 ft bgs 8/25/2010	20 to 22 ft bgs 8/25/2010
	Screening Level							
Acetone	8000000 ^{a,b}	5.1 U	5.1 U	4.4 U	N/A	5.1 U	4.8 U	N/A
Benzene	18000	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Bromobenzene	NV ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Bromochloromethane	NV ^{a,b}	0.19 U	0.19 U	0.16 U	N/A	0.19 U	0.17 U	N/A
Bromodichloromethane	16000 ^{a,b}	0.2 U	0.2 U	0.17 U	N/A	0.2 U	0.19 U	N/A
Bromoform	127000 ^{a,b}	0.39 U	0.39 U	0.34 U	N/A	0.39 U	0.37 U	N/A
Bromomethane	112000 ^{a,b}	0.8 U	0.81 U	0.69 U	N/A	0.8 U	0.76 U	N/A
Carbon disulfide	8000000 ^{a,b}	0.34 U	0.34 U	0.29 U	N/A	0.34 U	0.32 U	N/A
Carbon tetrachloride	7700 ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
Chlorobenzene	1600000 ^{a,b}	0.33 U	0.33 U	0.28 U	N/A	0.33 U	0.31 U	N/A
Chlorodibromomethane	12000 ^{a,b}	0.25 U	0.25 U	0.21 U	N/A	0.25 U	0.24 U	N/A
Chloroethane	350000 ^{a,b}	0.4 U	0.41 U	0.35 U	N/A	0.4 U	0.38 U	N/A
Chloroform	164000 ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Chloromethane	77000 ^{a,b}	0.6 U	0.6 U	0.51 U	N/A	0.6 U	0.56 U	N/A
<i>cis</i> -1,2-Dichloroethene	800000 ^{a,b}	0.3 U	0.3 U	0.26 U	N/A	0.3 U	0.28 U	N/A
<i>cis</i> -1,3-Dichloropropene	NV ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Cymene	NV ^{a,b}	0.37 U	0.37 U	0.31 U	N/A	0.37 U	0.34 U	N/A
Dibromomethane	800000 ^{a,b}	0.37 U	0.37 U	0.31 U	N/A	0.37 U	0.34 U	N/A
Dichlorodifluoromethane	160000000 ^{a,b}	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Ethylbenzene	8000000	0.29 U	0.29 U	0.25 U	N/A	0.29 U	0.27 U	N/A
Hexachlorobutadiene	13000 ^{a,b}	0.28 U	0.28 U	0.24 U	N/A	0.28 U	0.26 U	N/A
Isopropylbenzene (cumene)	8000000 ^{a,b}	0.17 U	0.17 U	0.15 U	N/A	0.17 U	0.16 U	N/A
Methyl isobutyl ketone (4-methyl-2-pentanone)	6400000 ^{a,b}	0.96 U	0.96 U	0.82 U	N/A	0.96 U	0.9 U	N/A
Methylene chloride	133000 ^{a,b}	0.56 U	0.56 U	0.48 U	N/A	0.56 U	0.53 U	N/A
Naphthalene	1600000 ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
<i>n</i> -Butylbenzene	NV ^{a,b}	0.42 U	0.42 U	0.36 U	N/A	0.42 U	0.39 U	N/A
<i>n</i> -Propylbenzene	NV ^{a,b}	0.47 U	0.47 U	0.4 U	N/A	0.47 U	0.44 U	N/A
<i>sec</i> -Butylbenzene	NV ^{a,b}	0.4 U	0.41 U	0.35 U	N/A	0.4 U	0.38 U	N/A
Styrene	33000 ^{a,b}	0.17 U	0.17 U	0.15 U	N/A	0.17 U	0.16 U	N/A
<i>tert</i> -Butylbenzene	NV ^{a,b}	0.43 U	0.43 U	0.37 U	N/A	0.43 U	0.4 U	N/A
Tetrachloroethylene (PCE)	1900 ^{a,b}	0.34 U	0.34 U	0.29 U	N/A	0.34 U	0.32 U	N/A
Toluene	6400000	0.24 U	0.24 U	0.2 U	N/A	0.24 U	0.22 U	N/A
<i>trans</i> -1,2-Dichloroethene	1600000 ^{a,b}	0.46 U	0.46 U	0.39 U	N/A	0.46 U	0.43 U	N/A
<i>trans</i> -1,3-Dichloropropene	NV ^{a,b}	0.44 U	0.45 U	0.38 U	N/A	0.44 U	0.42 U	N/A
Trichloroethylene (TCE)	11000 ^{a,b}	0.35 U	0.35 U	0.3 U	N/A	0.35 U	0.33 U	N/A
Trichlorofluoromethane	24000000 ^{a,b}	0.28 U	0.28 U	0.24 U	N/A	0.28 U	0.26 U	N/A
Vinyl chloride	670 ^{a,b}	0.4 U	0.41 U	0.35 U	N/A	0.4 U	0.38 U	N/A
Xylene, <i>o</i> -	160000000 ^{a,b}	0.17 U	0.17 U	0.15 U	N/A	0.17 U	0.16 U	N/A
Xylenes, <i>m</i> - & <i>p</i> -	160000000	0.48 U	0.48 U	0.41 U	N/A	0.48 U	0.45 U	N/A

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		6 to 8 ft bgs 8/24/2010	6 to 8 ft bgs 8/24/2010	8 to 10 ft bgs 8/24/2010	22 to 24 ft bgs 8/24/2010	6 to 8 ft bgs 8/25/2010	8 to 10 ft bgs 8/25/2010	20 to 22 ft bgs 8/25/2010
Screening Level								
Polychlorinated Biphenyl Compounds (µg/kg dw)								
Aroclor-1016	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1221	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1232	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1242	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1248	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1254	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1260	500 ^{a,f}	2.1 U	2.3 J	100	N/A	2.1 U	2.1 U	N/A
Aroclor-1262	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Aroclor-1268	NV ^a	2.1 U	2.1 U	2.1 U	N/A	2.1 U	2.1 U	N/A
Dioxins and Furans (ng/kg dw)								
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.139 U	0.0555 U	N/A	N/A	0.178 U	N/A	N/A
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.115 U	0.0566 U	N/A	N/A	0.137 U	N/A	N/A
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.0772 U	0.0377 U	N/A	N/A	0.132 U	N/A	N/A
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.0914 U	0.0488 U	N/A	N/A	0.159 U	N/A	N/A
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.0797 U	0.0408 U	N/A	N/A	0.137 U	N/A	N/A
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	0.669 U	0.566 U	N/A	N/A	0.37 U	N/A	N/A
Octachlorodibenzo- <i>p</i> -dioxin ^g	NV ^a	4.38 U	4.79 U	N/A	N/A	2.68 U	N/A	N/A
2,3,7,8-Tetrachlorodibenzofuran ^g	NV ^a	0.205 U	0.0606 U	N/A	N/A	0.241 U	N/A	N/A
1,2,3,7,8-Pentachlorodibenzofuran ^g	NV ^a	0.101 U	0.0393 U	N/A	N/A	0.125 U	N/A	N/A
2,3,4,7,8-Pentachlorodibenzofuran ^g	NV ^a	0.0962 U	0.042 U	N/A	N/A	0.119 U	N/A	N/A
1,2,3,4,7,8-Hexachlorodibenzofuran ^g	NV ^a	0.0764 U	0.0313 U	N/A	N/A	0.123 U	N/A	N/A
1,2,3,6,7,8-Hexachlorodibenzofuran ^g	NV ^a	0.0771 U	0.0292 U	N/A	N/A	0.0947 U	N/A	N/A
1,2,3,7,8,9-Hexachlorodibenzofuran ^g	NV ^a	0.115 U	0.0417 U	N/A	N/A	0.143 U	N/A	N/A
2,3,4,6,7,8-Hexachlorodibenzofuran ^g	NV ^a	0.0895 U	0.0323 U	N/A	N/A	0.108 U	N/A	N/A
1,2,3,4,6,7,8-Heptachlorodibenzofuran ^g	NV ^a	0.085 U	0.0761 U	N/A	N/A	0.184 U	N/A	N/A
1,2,3,4,7,8,9-Heptachlorodibenzofuran ^g	NV ^a	0.115 U	0.062 U	N/A	N/A	0.115 U	N/A	N/A
Octachlorodibenzofuran ^g	NV ^a	0.298 BJ	0.383 BJ	N/A	N/A	0.197 U	N/A	N/A
Total TCDD	NV ^a	0.139 U	0.0555 U	N/A	N/A	0.178 U	N/A	N/A
Total PeCDD	NV ^a	0.115 U	0.0566 U	N/A	N/A	0.137 U	N/A	N/A
Total HxCDD	NV ^a	0.0772 U	0.368 J	N/A	N/A	0.132 U	N/A	N/A
Total HpCDD	NV ^a	1.46 J	0.751 J	N/A	N/A	0.123 U	N/A	N/A

Table 4. Soil Sample Results and Comparisons to Screening Levels

Analyte	Sample ID	MWS-14-6-8	MWS-14-6-8DUF	MWS-14-8-10	MWS-14-22-24	MWS-15-6-8	MWS-15-8-10	MWS-15-20-22
		Sample Depth	6 to 8 ft bgs	6 to 8 ft bgs	8 to 10 ft bgs	22 to 24 ft bgs	6 to 8 ft bgs	8 to 10 ft bgs
	Date of Collection	8/24/2010	8/24/2010	8/24/2010	8/24/2010	8/25/2010	8/25/2010	8/25/2010
	Screening Level							
Total TCDF	NV ^a	0.205 U	0.0606 U	N/A	N/A	0.241 U	N/A	N/A
Total PeCDF	NV ^a	0.0962 U	0.042 U	N/A	N/A	0.49 J	N/A	N/A
Total HxCDF	NV ^a	0.0764 U	0.0313 U	N/A	N/A	0.123 U	N/A	N/A
Total HpCDF	NV ^a	0.085 U	0.163 J	N/A	N/A	0.0826 U	N/A	N/A
2,3,7,8-TCDD TEQ (calculated) ^h	11	0.189	0.0834	N/A	N/A	0.238 U	N/A	N/A

Notes:

B = Analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the NELAC standards

bgs = below ground surface

J = Result is an estimated value that was detected outside the instrument quantitation range

NV = No value

TEQ = Toxic equivalent calculated with non-detects at ½ the detection limit.

U = Analyte was analyzed for, but was not detected at or above the method reporting limit/method detection limit

Detected sample results are indicated with bold font.

Sample results exceeding screening levels are indicated with bold black boxes surrounding the values.

^a Screening level not evaluated in EE/CA (Windward et al. 2010).

^b MTCA Method B values were developed per WAC 173-340-740, Equations 740-1 and 740-2. Screening levels were obtained from Ecology's Cleanup Levels and Risk Calculation (CLARC) database (Ecology 2010).

^c MTCA Method A unrestricted land use value was obtained from WAC 173-340-740, Table 740-1. Screening level was selected because sample results for BTEX analytes were all nondetect.

^d Analyte is factored into BaP TEQ calculation.

^e BaP TEQ was calculated in accordance with Cal-EPA (2005) and Appendix D of the EE/CA (Windward et al. 2010).

^f Value is for total PCBs.

^g Analyte is factored into 2,3,7,8-TCDD TEQ calculation.

^h 2,3,7,8-TCDD TEQ was calculated in accordance with World Health Organization consensus values (Van den Berg *et al.*, 2006) and Appendix D of the EE/CA (Windward et al. 2010).

Table 5. Groundwater Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection Screening Level ^a	MW-14-19-21 19 to 21 ft bgs 8/24/2010 (µg/L)		MW-14-19-21DUP 19 to 21 ft bgs 8/24/2010 (µg/L)		MW-15-16-18 16 to 18 ft bgs 8/25/2010 (µg/L)	
1,1,1,2-Tetrachloroethane	0.0087	0.11	U	0.11	U	0.11	U
1,1,1-Trichloroethane	200	0.075	U	0.075	U	0.075	U
1,1,2,2-Tetrachloroethane	0.22	0.16	U	0.16	U	0.16	U
1,1,2-Trichloroethane	5	0.14	U	0.14	U	0.14	U
1,1-Dichloroethane	1600	0.077	U	0.077	U	0.077	U
1,1-Dichloroethene	3.2	0.074	U	0.074	U	0.074	U
1,1-Dichloropropene	NV	0.089	U	0.089	U	0.089	U
1,2,3-Trichlorobenzene	NV	0.11	U	0.11	U	0.11	U
1,2,3-Trichloropropane	0.0063	0.2	U	0.2	U	0.2	U
1,2,4-Trichlorobenzene	70	0.096	U	0.096	U	0.096	U
1,2,4-Trimethylbenzene	400	0.069	U	0.069	U	0.069	U
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.2	U	0.2	U	0.2	U
1,2-Dibromoethane (ethylene dibromide)	0.05	0.1	U	0.1	U	0.1	U
1,2-Dichlorobenzene	600	0.12	U	0.12	U	0.12	U
1,2-Dichloroethane	4.81	0.08	U	0.08	U	0.08	U
1,2-Dichloropropane	5	0.095	U	0.095	U	0.095	U
1,3,5-Trimethylbenzene	400	0.089	U	0.089	U	0.089	U
1,3-Dichlorobenzene	960	0.1	U	0.1	U	0.1	U
1,3-Dichloropropane	NV	0.14	U	0.14	U	0.14	U
1,4-Dichlorobenzene	18.23	0.12	U	0.12	U	0.12	U
2,2-Dichloropropane	NV	0.06	U	0.06	U	0.06	U
2-Butanone	4800	1.9	U	1.9	U	1.9	U
2-Chlorotoluene	160	0.1	U	0.1	U	0.1	U
2-Hexanone	NV	2.7	U	2.7	U	2.7	U
4-Chlorotoluene	NV	0.13	U	0.13	U	0.13	U
Acetone	800	3.3	U	3.3	U	3.3	U
Benzene	5	0.054	U	0.054	U	0.054	U

Table 5. Groundwater Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection Screening Level ^a	MW-14-19-21 19 to 21 ft bgs 8/24/2010 (µg/L)	MW-14-19-21DUP 19 to 21 ft bgs 8/24/2010 (µg/L)	MW-15-16-18 16 to 18 ft bgs 8/25/2010 (µg/L)
Bromobenzene	NV	0.12 U	0.12 U	0.12 U
Bromochloromethane	NV	0.16 U	0.16 U	0.16 U
Bromodichloromethane	0.71	0.091 U	0.091 U	0.091 U
Bromoform	5.54	0.16 U	0.16 U	0.16 U
Bromomethane	11.2	0.09 U	0.09 U	0.09 U
Carbon disulfide	800	1	0.75	0.1 U
Carbon tetrachloride	1.6	0.096 U	0.096 U	0.096 U
Chlorobenzene	100	0.11 U	0.11 U	0.11 U
Chlorodibromomethane	0.52	0.14 U	0.14 U	0.14 U
Chloroethane	15.1	0.16 U	0.16 U	0.16 U
Chloroform	7.17	0.072 U	0.072 U	0.072 U
Chloromethane	3.37	0.068 U	0.068 U	0.068 U
cis-1,2-Dichloroethene	70	0.067 U	0.067 U	0.067 U
cis-1,3-Dichloropropene	NV	0.18 U	0.18 U	0.18 U
Cymene	NV	0.051 U	0.051 U	0.051 U
Dibromomethane	80	0.15 U	0.15 U	0.15 U
Dichlorodifluoromethane	1600	0.13 U	0.13 U	0.13 U
Ethylbenzene	700	0.05 U	0.05 U	0.05 U
Hexachlorobutadiene	0.56	0.11 U	0.11 U	0.11 U
Isopropylbenzene (cumene)	800	0.091 U	0.091 U	0.091 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	640	2.6 U	2.6 U	2.6 U
Methylene chloride	5	0.17 U	0.17 U	0.17 U
Naphthalene	160	0.088 U	0.088 U	0.088 U
N-butylbenzene	NV	0.42 U	0.42 U	0.42 U
N-propylbenzene	NV	0.53 U	0.53 U	0.53 U
Sec-butylbenzene	NV	0.062 U	0.062 U	0.062 U
Styrene	14.58	0.12 U	0.12 U	0.12 U

Table 5. Groundwater Sample Results and Comparisons to Screening Levels

Analyte	Sample ID Sample Depth Date of Collection Screening Level ^a	MW-14-19-21 19 to 21 ft bgs 8/24/2010 (µg/L)	MW-14-19-21DUP 19 to 21 ft bgs 8/24/2010 (µg/L)	MW-15-16-18 16 to 18 ft bgs 8/25/2010 (µg/L)
Tert-butylbenzene	NV	0.053 U	0.053 U	0.053 U
Tetrachloroethylene (PCE)	0.81	0.099 U	0.099 U	0.84
Toluene	640	0.052 U	0.052 U	0.052 U
<i>Trans</i> -1,2-dichloroethene	100	0.091 U	0.091 U	0.091 U
<i>Trans</i> -1,3-dichloropropene	NV	0.068 U	0.068 U	0.068 U
Trichloroethylene (TCE)	2.4	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	2400	0.12 U	0.12 U	0.12 U
Vinyl chloride	0.29	0.075 U	0.075 U	0.075 U
Xylene, <i>o</i> -	16000	0.074 U	0.074 U	0.074 U
Xylenes, <i>m</i> - and <i>p</i> -	NV	0.091 U	0.091 U	0.091 U

Notes:

NV = No value

U = Analyte was analyzed for, but was not detected at or above the method reporting limit/method detection limit

Detected sample results are indicated with bold font.

Sample results exceeding screening levels are indicated with bold black boxes surrounding the values.

^a Screening levels were derived by evaluating the minimum ARARs for protection of drinking water and protection of surface water (see Section 3.1).