

Table 8. Summary of Results Above ESLs

-HEM (TOGI)

Sample ID	Depth (ft.)	O&G	TPH Total (mg/kg)	TPH (D) (mg/kg)	TPH (MO) (mg/kg)	TPH (CR) (mg/kg)	Cd (mg/L)	Cr (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
#5-6"-12"	6"-12"	-	6500 (mg/kg)	-	-	-	-	-	-	-	-
#5-3'	3'-10"	-	4900 (mg/kg)	-	-	-	-	-	-	-	-
#6B	1'-10-2'-4"	-	3700 (mg/kg)	-	-	-	-	-	-	-	-
SB106	4'-5"	-	-	1100 (mg/kg)	1900 (mg/kg)	2800 (mg/kg)	-	-	-	-	-
SB107	1'-2"	-	-	5500 (mg/kg)	11000 (mg/kg)	15000 (mg/kg)	-	-	-	-	-
1-6	1'-6"	-	-	-	-	-	0.019 (mg/L)	1.1 (mg/L)	5.8 (mg/L)	1.1 (mg/L)	1.9 (mg/L)
W 105	-	-	-	-	-	-	-	-	0.052 (mg/L)	0.0094 (mg/L)	0.93 (mg/L)
W 107	-	-	-	-	-	-	0.0031 (mg/L)	0.022 (mg/L)	0.48 (mg/L)	0.12 (mg/L)	1.3 (mg/L)
W 108	-	-	-	-	-	-	0.0022 (mg/L)	0.025 (mg/L)	0.076 (mg/L)	5.6 (mg/L)	0.97 (mg/L)
W 109	-	-	-	-	-	-	-	-	-	-	0.018 (mg/L)
W101	-	-	-	-	-	-	-	-	0.12 (mg/L)	-	-
W102	-	-	-	-	-	-	-	-	0.14 (mg/L)	0.77 (mg/L)	-
W103	-	-	-	-	-	-	-	-	0.38 (mg/L)	0.061 (mg/L)	-
W111	-	-	-	-	-	-	-	-	0.42 (mg/L)	-	-
#1 Hoist A	-	-	-	-	-	-	-	0.29 (mg/wipe)	1.6 (mg/wipe)	0.22 (mg/wipe)	-
#2 Electrical Box	-	-	-	-	-	-	-	0.46 (mg/wipe)	7.6 (mg/wipe)	0.054 (mg/wipe)	-
#3 Ring Roller	-	-	-	-	-	-	-	0.39 (mg/wipe)	2.3 (mg/wipe)	0.28 (mg/wipe)	-
Electrical Box A	-	-	-	-	-	-	-	0.16 (mg/wipe)	2.2 (mg/wipe)	0.052 (mg/wipe)	-
Hoist A	-	-	-	-	-	-	-	0.36 (mg/wipe)	2.3 (mg/wipe)	0.51 (mg/wipe)	-
Ring Roller A	-	-	-	-	-	-	-	0.29 (mg/wipe)	3.0 (mg/wipe)	0.27 (mg/wipe)	-
S-1	-	-	-	-	-	-	-	0.35 (mg/wipe)	3.4 (mg/wipe)	0.24 (mg/wipe)	-
S-2	-	-	-	-	-	-	-	0.1 (mg/wipe)	0.76 (mg/wipe)	0.033 (mg/wipe)	-
S-3	-	-	-	-	-	-	-	-	0.011 (mg/wipe)	-	-

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

Table 5B. Sampling Event November 14, 2008. Groundwater Sampling

Sample ID	Depth (ft.)	TPH (D) (ug/L)	TPH (MO) (ug/L)	TPH (CR) (ug/L)	Cd (mg/L)	Cr (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
W 101		58	ND	ND	ND	ND	0.12	0.0065	0.056
W 102		54	ND	ND	ND	0.014	0.14	0.77	1.2
W 103		74	ND	ND	ND	0.026	0.38	0.061	1.4
W 111		91	ND	ND	ND	ND	0.42	ND	8.4

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

E. Sampling Event November 21, 2008

This sampling event was conducted without agency oversight to collect the remaining samples from all proposed subsurface sample locations. Tables 6A includes the results from this sampling event for soil.

Table 6A. November 21, 2008. Soil Sampling

Sample ID	Depth (ft.)	TPH (D) (mg/kg)	TPH (MO) (mg/kg)	TPH (CR) (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SB 104	1'-2'	2.2	ND	ND	ND	32	35	10	34
SB 104	3'-4'	6.1	ND	ND	ND	16	11	75	120
SB 104	7'-8'	ND	ND	ND	ND	12	8.3	13	17
SB 105	1'-2'	ND	ND	ND	ND	70	82	9	62
SB 105	3'-4'	3.4	ND	ND	ND	17	12	44	62
SB 105	7'-8'	ND	ND	ND	ND	14	10	17	35
SB 106	1'6"-2'6"	ND	ND	ND	ND	53	64	11	46
SB 106	4'-5'	1100	1900	2800	ND	54	79	31	67
SB 106	7'-8'	2.8	ND	ND	ND	12	24	210	200
SB 107	1'-2'	5500	11000	15000	1.3	72	72	260	580
SB 107	4'-5'	230	520	700	ND	14	10	23	49
SB 107	7'-8'	ND	ND	ND	ND	14	11	5.2	12
SB 108	1'-2'	2.6	ND	ND	ND	52	59	12	41
SB 108	4'-5'	49	110	150	ND	25	24	65	100
SB 108	7'-8'	ND	ND	ND	ND	14	10	4.8	9.3
SB 109	1'-2'	7.6	ND	ND	ND	14	12	160	210
SB109	4'-5'	8.4	ND	ND	ND	19	14	120	200
SB 109	7'-8'	ND	ND	ND	ND	13	10	4.8	10
SB 110	1'-2'	1.5	ND	ND	ND	25	19	87	290
SB 110	4'-5'	ND	ND	ND	ND	17	11	10	26
SB 110	7'-8'	ND	ND	ND	ND	13	8.4	5.3	7.8

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36. *Values in bold print represent those that exceed the clean-up level as determined by ACDEH

Western Forge and Flange Co. 540 Cleveland Ave

Sampling and Analysis

Groundwater sampling results for this sampling event are included in Table 2B. These results exceeded the ESLs for cadmium, chromium, nickel, lead, and zinc, and are pending further evaluation by ACDEH Site Mitigation/Local Oversight Program.

Table 2A. Sampling Event October 3, 2008. Soil Sampling

Sample ID	Depth (ft.)	TPH (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
#5-6"-12"	6"-12"	6500	ND	51	140	30	73
#5-3'	3' 10"	4900	ND	16	20	81	110
#6A-2.5'-3'	2.5'-3'	ND	ND	54	67	110	140
#6A-3'-4'	3'-4'	ND	ND	14	8.3	7.1	16
#6B 1'10"-2'4"	1'10"-2'4"	3700	ND	52	83	7.9	81
#6B 3'-3.5"-3' 9.5"	3.5"-3'9"	780	ND	15	9.2	56	76
#8-1'-1.5"	1'-1.5"	880	ND	18	14	180	130
#8-3'-4"	3'-4"	1500	ND	73	180	140	90
#9-9"-15"	9"-15"	ND	ND	15	14	23	56
#9-3'-3'10"	3'-3'10"	ND	ND	20	24	15	29

*Values in bold print represent those that exceed the ESL as determined by ACDEH

Table 2B. Sampling Event October 3, 2008. Groundwater Sampling

Sample ID	Depth (ft.)	TPH (ug/L)	Cd (mg/L)	Cr (mg/L)	Ni (mg/L)	Pb (mg/L)	Zn (mg/L)
1-6	1'-6"	ND	0.019	1.1	5.8	1.1	1.9

*Values in bold print represent those that exceed the ESL as determined by ACDEH

D. Sampling Event November 14, 2008

This sampling event is a continuation of the subsurface sampling events that occurred on October 3, 2008. The sample locations identified below are the initial sampling locations proposed by ACDEH. Oversight was provided by ACDEH during this sampling event

Table 5A includes the results from the soil samples collected during Sampling Event November 14, 2008. No soil samples during this sampling event exceeded the ESLs for TPH or metals.

The results from the groundwater samples collected during this sampling event are included in Table 5B. These results show elevated levels of nickel for all samples collected during this sampling event. Elevated levels of lead were found in sample locations W102 and W 103.

Table 5A. Sampling Event November 14, 2008. Soil Sampling

Sample ID	Depth (ft.)	TPH (D) (mg/kg)	TPH (MO) (mg/kg)	TPH (CR) (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Ni (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SB-101 3'-4'	3'-4'	85	58	150	ND	17	22	12	26
SB 101 7'-8'	7'-8'	ND	ND	ND	ND	14	8.2	5.2	9.4
SB 101 11'-12'	11'-12'	ND	ND	ND	ND	8.8	10	3.7	14
SB 101 15'-16'	15'-16'	ND	ND	ND	ND	16	20	6.2	23Q
SB 102 3'-4'	3'-4'	ND	ND	ND	ND	45	60	15	33
SB 102 7'-8'	7'-8'	13	ND	52	ND	16	7.8	110	70
SB 102 11'-12'	11'-12'	ND	ND	ND	ND	13	9.4	5	13
SB 102 15'-16'	15'-16'	4.9	ND	ND	ND	11	15	7.1	26
SB 103 3'-4'	3'-4'	46	180	210	ND	67	85	11	52
SB 103 7'-8'	7'-8'	23	94	110	ND	18	9.7	150	110
SB 103 11'-12'	11'-12'	ND	ND	ND	ND	18	23	3.7	12
SB 103 15'-16'	15'-16'	ND	ND	ND	ND	18	23	3.9	12
SB 111 0'-1'	0'-1'	68	310	360	ND	37	180	19	X
SB 111 3'-4'	3'-4'	8.6	55	60	ND	50	69	6.6	44
SB 111 5'-6'	5'-6'	3.6	ND	ND	ND	26	21	29	62
SB 111 7'-8'	7'-8'	23	70	87	ND	15	12	49	50
SB 111 9'-10'	9'-10'	ND	ND	ND	ND	14	8.8	10	13
SB 112 3'-4'	3'-4'	16	51	63	ND	13	26	13	29
SB 112 7'-8'	7'-8'	58	ND	ND	ND	70	86	7.7	42

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH