

Table 1
YCF 3-45-1
Soil Sample Summary

SAMPLE SUMMARY	
Location Description	YCF 3-45-1 Flowline Spill
Sample Type	Soil
Sample Date	8/24/2010

LABORATORY DATA SUMMARY										
Sample ID	SS-1	SS-2	SS-2 (Lab rerun)	SS-3	BG-1	BG-2	BG-3	BG-4	COGCC ALLOWABLE LIMITS	UNITS
Depth	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"	0-12"		
Analytical Parameters										
TPH										
TPH Low Fraction	42	ND	NT	2.4	NT	NT	NT	NT	* see total below	mg/kg
TPH High Fraction	300	48	NT	270	NT	NT	NT	NT	*see total below	mg/kg
Total TPH	342	48	NT	272.4	NT	NT	NT	NT	500	mg/kg
BTEX										
Benzene	0.051	0.71*	ND	ND	NT	NT	NT	NT	0.17	mg/kg
Toluene	ND	ND	ND	ND	NT	NT	NT	NT	85	mg/kg
Ethylbenzene	0.18	ND	ND	0.0076	NT	NT	NT	NT	100	mg/kg
Total Xylene	0.43	0.0084	ND	0.18	NT	NT	NT	NT	175	mg/kg
Metals										
Chromium, Hexavalent	ND	ND	NT	2.0	NT	NT	NT	NT	23	mg/kg
Chromium, Trivalent	53	41	NT	47	NT	NT	NT	NT	120,000	mg/kg
Mercury	ND	ND	NT	ND	NT	NT	NT	NT	23	mg/kg
Arsenic	3.6	5.5	NT	4.6	3.8	5.6	5.7	5.1	0.39	mg/kg
Barium	200	210	NT	250	NT	NT	NT	NT	15,000	mg/kg
Cadmium	ND	ND	NT	0.31	NT	NT	NT	NT	70	mg/kg
Copper	11	9.7	NT	11	NT	NT	NT	NT	3,100	mg/kg
Lead	9.7	10	NT	7.6	NT	NT	NT	NT	400	mg/kg
Nickel	31	23	NT	20	NT	NT	NT	NT	1,600	mg/kg
Selenium	ND	1.2	NT	ND	NT	NT	NT	NT	390	mg/kg
Silver	0.91	ND	NT	ND	NT	NT	NT	NT	390	mg/kg
Zinc	45	58	NT	41	NT	NT	NT	NT	23,000	mg/kg
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	ND	ND	NT	ND	NT	NT	NT	NT	1,000	mg/kg
Benzo(a)anthracene	ND	ND	NT	ND	NT	NT	NT	NT	0.22	mg/kg
Benzo(a)pyrene	ND	ND	NT	ND	NT	NT	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	ND	ND	NT	ND	NT	NT	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	ND	ND	NT	ND	NT	NT	NT	NT	2.2	mg/kg
Chrysene	ND	ND	NT	ND	NT	NT	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	ND	ND	NT	ND	NT	NT	NT	NT	0.022	mg/kg
Fluoranthene	ND	ND	NT	ND	NT	NT	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	NT	ND	NT	NT	NT	NT	0.22	mg/kg
Pyrene	ND	ND	NT	ND	NT	NT	NT	NT	1,000	mg/kg
General Chemistry										
pH	8.2	8.2	NT	8.0	NT	NT	NT	NT	6-9	*
Sodium Adsorption Ratio	13	21	NT	32	0.56	0.77	0.87	0.74	<12	*
Specific Conductance	1800	2200	NT	2400	NT	NT	NT	NT	4,000	umhos/cm

* BTEX reran by the lab at Olsson's request because the benzene result of the original run did not coorelate with field observations and TPH results. Rerun showed no detection.

ND - paramter not detected in laboratory analysis

mg/kg - milligrams per kilogram

NT - parameter not tested

umhos/cm - micromhos per centimeter

result over allowable limit and natural background levels for the site

result over allowable limit but within natural background levels for the site