

Table 1
AC McLaughlin 14 Lateral Line Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	AC MCL 14 Lateral Line
Sample Type	Soil

Sample ID	AC MCL 14 (ORIG)	ACM14-SS1	ACM14-SS2	ACM14-SS3	ACM14-SS3	ACM14-SS4	ACM14-SS5	ACM14-SS5	ACM14-SS6	ACM14-SS6	ACM14-SS7	ACM14-SS8	ACM14-SS9	ACM14-SS9	ACM14-SS10	ACM14-SS10	ACM14-SS11	ACM14-SS11	ACM14-BG1	ACM14-BG2	ACM14-BG3	ACMCL-26-BG	ECMC TABLE 915-1 CONCENTRATION LEVELS		UNITS																								
																							Depth			Sample Date		Residential Soil Screening Level	Protection of Groundwater Screening Level																				
																							5'	0-1'		5/17/2023	5/17/2023																						
Analytical Parameters																							Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS																								
TPH																																																	
TPH Gasoline Range Organics																							0.0455 J	0.184	0.138	0.316	0.114	0.161	0.121	0.0919 J	0.516	0.123	0.184	0.212	0.144	0.19	0.118	0.12	0.210	0.182	NT	NT	NT	NT	1.2	0.0026	mg/kg		
TPH Diesel Range Organics																							13.5	4.50	<4.00	7.68	49.6	54.1	239	188 J	14.0	39.3 J	41.8	13.2	11.9	62	37.9	43.5	<4.00	3.40 J	NT	NT	NT	NT	490	0.69	mg/kg		
TPH Oil Range Organics																							16.9	20.5	2.33 J	17.2	109	52.9	871	745	32.9	135	61.2	22.9	33.3	191	128	149	2.03 J	8.09	NT	NT	NT	NT	58	9.9	mg/kg		
Volatile Organic Compounds																																																	
Benzene																							<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NT	NT	NT	NT	1.2	0.0026	mg/kg	
Toluene																							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	490	0.69	mg/kg	
Ethylbenzene																							<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	NT	NT	NT	NT	5.8	0.78	mg/kg	
Total Xylenes																							0.00375 J	0.0171 J	0.0176 J	0.0247 J	<0.0065	0.00183 J	0.00245 J	<0.0065	0.00169	<0.0065	0.00232 J	0.00183 J	<0.0065	0.00118 J	<0.0065	0.00638 J	<0.0065	<0.0065	<0.0065	NT	NT	NT	NT	58	9.9	mg/kg	
1,2,4-Trimethylbenzene																							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	30	0.0081	mg/kg	
1,3,5-Trimethylbenzene																							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00695	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	27	0.0087	mg/kg	
Metals																																																	
Arsenic																							7.09	6.55	5.81	6.38	5.21	6.62	6.70	6.28	5.43	5.79	5.88	6.19	5.23	5.07	5.89	6.29	6.73	6.45	6.51	6.10	6.44	4.50	0.88	0.29	mg/kg		
Barium																							29.0	169	197	178	197	139.0	190	182	125	151	143	145	122	126	195	244	94.0	131	204	137	175	77.7	15,000	52	mg/kg		
Cadmium																							<1.00	0.302 J	0.237 J	0.294 J	0.253 J	0.258 J	0.281 J	0.238 J	0.221 J	0.188 J	0.251 J	0.235 J	0.167 J	0.171 J	0.214 J	0.254 J	0.212 J	0.213 J	0.291 J	0.229 J	0.310 J	<1.3	71	0.38	mg/kg		
Copper																							3.45 J	10.9	10.9	11.4	11.2	11.4	11.5	9.49	10.8	11.5	11.4	11.7	10.2	11.7	11.4	11.7	11.2	12.7	12.5	12.7	11.3	9.7	3,100	46	mg/kg		
Lead																							6.62	17.1	16.8	16.8	17.7	16.2	17.7	16.1	14.2	14.5	14.2	14.2	15.1	15.1	13.8	13.3	14.7	18.1	16.0	17.1	12.0	400	14	mg/kg			
Nickel																							6.55	21.2	15.0	16.6	13.1	16.1	16.0	14.9	13.1	14.1	15.0	13.9	14.8	14.5	14.1	14.1	17.1	15.9	14.2	14.2	16.8	9.9	1,500	26	mg/kg		
Selenium																							0.389 J	2.23 J	1.29 J	0.996 J	0.799 J	1.36 J	1.09 J	0.914 J	0.857 J	0.621 J	1.17 J	1.27 J	0.999 J	0.911 J	0.730 J	0.922 J	0.999 J	0.984 J	1.25 J	1.04 J	0.984 J	<6.3	390	0.26	mg/kg		
Silver																							<0.500	0.101 J	0.0930 J	0.0979 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.0946 J	<3.8	390	0.8	mg/kg			
Zinc																							24.8 J	85.3	65.3	71.8	59.9	74.4	87.9	81.8	64.0	64.5	66.4	66.9	61.0	59.7	63.4	65.5	58.4	72	69.1	63.0	73.9	49.9	23,000	370	mg/kg		
Soil Suitability for Reclamation																																																	
Sodium Adsorption Ratio (SAR)																							0.113	0.594	5.88	13.3	19.3	4.14	2.79	3.00	4.84	20.70	5.11	1.32	22.7	19.1	2.88	2.34	3.72	0.757	0.398	0.776	1.45	8.00	<6	<6	ratio		
Chromium, Hexavalent																							<1.00	<1.00	<1.00	16.7	<1.00	<1.00	<1.00	<1.00	1.83	<1.00	<1.00	<1.00	<1.00	<1.00	0.425 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.3	0.3	0.00067	mg/kg		
Electrical Conductivity (EC)																							0.154	2.290	0.719	2.880	0.773	3.480	0.559	1.110	2.480	0.619	1.320	2.480	4.660	0.710	0.443	0.676	1.530	0.258	0.225	0.301	1.0	<4	<4	mmhos/cm			
Barium, Hot Water Soluble																							0.594	0.666	0.578	1.52	1.39	1.190	0.867	2.37	1.38	1.91 J	1.05 J	2.48	1.77	0.994 J	0.865	2.91 J	0.834	0.527	0.476	0.879	NT	2	2	mg/kg-dry			
pH																							8.40	7.75	8.33	8.55	7.86	8.80	8.14	7.94	8.12	8.02	8.66	8.96	8.41	7.62	8.96	8.38	9.15	7.55	8.23	8.36	9.72	6-8.3	6-8.3	so			
Polynuclear Aromatic Hydrocarbons																																																	
Acenaphthene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.0064	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.38	<0.006	<0.006	<0.006	NT	NT	NT	NT	360	0.55	mg/kg		
Anthracene																							<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	1.47	<0.006	<0.006	0.00472 J	NT	NT	NT	NT	1,800	5.8	mg/kg		
Benzo(a)anthracene																							<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	6.00	0.00404 J	<0.006	0.0216	NT	NT	NT	NT	1.1	0.011	mg/kg		
Benzo(a)pyrene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.00179 J	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	5.94	0.00344 J	<0.006	0.00908	NT	NT	NT	NT	0.11	0.24	mg/kg		
Benzo(b)fluoranthene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.00290 J	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	7.38	0.00455 J	<0.006	0.0214	NT	NT	NT	NT	1.1	0.3	mg/kg		
Benzo(k)fluoranthene																							<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	3.15	<0.006	<0.006	0.00706	NT	NT	NT	NT	11	2.9	mg/kg		
Chrysene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.00701	<0.006	0.0102	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	4.65	0.00335 J	<0.006	0.0233	NT	NT	NT	NT	110	9	mg/kg		
Dibenzo(h)anthracene																							<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.672	<0.006	<0.006	0.00264 J	NT	NT	NT	NT	0.11	0.096	mg/kg		
Fluoranthene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.00697	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	14.5	0.01	<0.006	0.0687	NT	NT	NT	NT	240	8.9	mg/kg		
Fluorene																							<0.006	<0.006	<0.006	<0.006	<0.006	0.0208	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.282	<0.006	<0.006	<0.006	NT	NT	NT	NT	240	0.54	mg/kg		
Indeno(1,2,3-cd)pyrene																							<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	4.70	0.00318 J	<0.006	0.0103	NT	NT	NT	NT	1.1	0.98	mg/kg		
1-Methylnaphthalene																							<0.02	<0.02	<0.02	<0.02	<0.02	0.079	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0406	<0.02	<0.02	<0.02	NT	NT	NT	NT	18	0.006	mg/kg		
2-Methylnaphthalene																							<0.02	<0.02	<0.02	<0.02	<0.02	0.0249	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0219	<0.02	<0.02	<0.02	NT	NT	NT	NT	24	0.019	mg/kg		
Naphthalene																							<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0591	<0.02	<0.02	<0.02	NT	NT	NT	NT	2	0.0			