Table 915-1

Fulcrum Energy Operating - Grizzly 3-32H
Attachment C - Analytical Summary
Characterization Sampling

Contaminant of Concern			Background		Soil Characterization Samples							
		Sample ID	SS_BG_01 @ 2'	BG_Grizzly_02 @ 3'	SS_Grizzly_01 @ 3'	SS_Grizzly_02 @ 3'	SS_Grizzly_03 @ 3'	SS_Grizzly_04 @ 3'	SS_Grizzly_05 @ 3'	SS_Grizzly_06 @ 3'	SS_Grizzly_07 @ 3'	SS_Grizzly_08 @ 3'
		Depth - BGS (inches)	24"	36"	36"	36"	36"	36"	36"	36"	36"	36"
		Sample Date	3/9/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023	9/5/2023
Organic Compounds in Soil	**RSSL Concentrations**	**Units**										
TPH-TVPH (Gasoline Range Organics-C6-C10)	500	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
TPH-TEPH (Diesel Range Organics-C10-C28)		mg/kg	NA	NA	ND	ND	290	ND	ND	ND	ND	ND
TPH-ORO (Oil Range Organics-C28-C40)		mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Total TPH (GRO+DRO+ORO)		mg/kg	NA	NA	ND	ND	290	ND	ND	ND	ND	ND
Benzene	1.2	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	490	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.8	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	58	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	30	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	27	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	360	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1800	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)anthracene	1.1	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	1.1	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	11	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)pyrene	0.11	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	110	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	0.11	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	240	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	240	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,C,D)pyrene	1.1	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	18	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	24	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	180	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Soil Suitability for Reclamation												
Electrical Conductivity (EC)	<4 mmhos/cm	mmhos/cm	0.15	0.0937	2.990	2.850	0.677	0.807	0.464	2.340	0.444	0.442
Sodium Adsorption Ratio (SAR)	< 6	ratio	5.2	0.182	5.49	30.5	25.6	0.511	0.717	7.13	1.2	0.726
pH	6.0-8.3	su	6.78	7.29	7.55	8.09	7.98	7.71	7.8	7.36	8.01	7.99
Boron (Hot Water Soluble)	2	mg/l	ND	0.204	0.709	2.33	3.05	0.347	0.508	0.706	0.528	0.18
Metals in Soils	**RSSL**											
Arsenic	0.68	mg/kg	NA	2.19	2.27	2.53	2.14	3.39	2.6	3.93	3.07	2.65
Barium	15,000	mg/kg	NA	NA	90.9	90.5	81.9	85.2	96.7	174	91.9	87.5
Cadmium	71	mg/kg	NA	NA	0.151	0.155	0.15	0.19	0.182	0.223	0.151	0.137
Chromium (Hexavalent)	0.3	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Copper	3,100	mg/kg	NA	NA	11.7	11.1	ND	9.27	ND	14.8	12.7	11.9
Lead	400	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	1,500	mg/kg	NA	NA	ND	9.69	ND	10.5	ND	14.30	10.90	10.80
Selenium	390	mg/kg	NA	NA	0.0936	0.153	ND	0.105	0.103	0.158	0.159	0.138
Silver	390	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	23,000	mg/kg	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND

Sample concentrations in red font exceed Table 915-1 standards
RSSL = Residential Soil Screening Levels
ND - Non-Detect - Analytical result is less than the reporting limit
mg/kg - milligrams per kilogram
TPH - Total Petroleu TPH - Total Petroleum Hydrocarbons
SAR - Sodium Adsor SAR - Sodium Adsorption Ratio
NA - Not Analyzed NA - Not Analyzed
mmhos/cm - millimhos mmhos/cm - millimhos per centimeter
BGS - Below Ground Surface