Fulcrum Energy Operation - Grizzly 3-32H
Attachment C - Analytical Summary
Confirmation Sampling

Table 915-1			Background	Soil Characterization Samples				
		Sample ID	BG_SS_01 @ 2'	SS_01 @ 6"	SS_01 @ 1'	SS_02 @ 6"	SS_02 @ 1'	SS_02 @ 2'
Contaminant of Concern		Depth - BGS (feet)	2	0.5	1	0.5	1	2
		Sample Date	3/9/2023					
Organic Compounds in Soil	**RSSL**	**Units**						
TPH (Gasoline Range Organics)	500	mg/kg	NA	0.24	ND	1.58	2.33	ND
TPH (Diesel Range Organics)		mg/kg	NA	427.00	62.3	188.00	96	ND
TPH (Oil Range Organics)		mg/kg	NA	150.00	ND	ND	ND	ND
Total Petroleum Hydrocarbons *(GRO+DRO+ORO)*		mg/kg	NA	577.24	62.30	189.58	98.33	0.00
Benzene	1.2	mg/kg	NA	ND	ND	ND	ND	ND
Toluene	490	mg/kg	NA	ND	ND	ND	ND	ND
Ethylbenzene	5.8	mg/kg	NA	ND	ND	ND	ND	ND
Xylenes (total)	58	mg/kg	NA	ND	ND	ND	0.009	ND
1,2,4-Trimethylbenzene	30	mg/kg	NA	ND	NA	0.0198	NA	ND
1,3,5-Trimethylbenzene	27	mg/kg	NA	ND	ND	0.00368	ND	ND
Acenaphthene	360	mg/kg	NA	0.0615	NA	0.0121	NA	ND
Anthracene	1800	mg/kg	NA	0.0176	NA	ND	NA	ND
Benzo(a)anthracene	1.1	mg/kg	NA	0.0454	NA	0.00248	NA	ND
Benzo(b)fluoranthene	1.1	mg/kg	NA	0.0141	NA	ND	NA	ND
Benzo(k)fluoranthene	11	mg/kg	NA	ND	NA	ND	NA	ND
Benzo(a)pyrene	0.11	mg/kg	NA	0.0175	NA	ND	NA	0.000771
Chrysene	110	mg/kg	NA	0.0603	NA	0.0126	NA	ND
Dibenzo(a,h)anthracene	0.11	mg/kg	NA	ND	NA	ND	NA	ND
Fluoranthene	240	mg/kg	NA	0.0218	NA	0.00198	NA	ND
Fluorene	240	mg/kg	NA	0.267	NA	0.0449	NA	ND
Indeno(1,2,3-cd)pyrene	1.1	mg/kg	NA	ND	NA	ND	NA	ND
1-Methylnaphthalene	18	mg/kg	NA	0.551	NA	0.257	NA	ND
2-Methylnaphthalene	24	mg/kg	NA	0.495	NA	0.267	NA	ND
Naphthalene	2	mg/kg	NA	0.0564	NA	0.0894	NA	ND
Pyrene	180	mg/kg	NA	0.0691	NA	0.00814	NA	ND
Soil Suitability for Reclamation								
Boron (Hot Water Soluable)	2	mg/l	ND	0.727	0.371	1.59	1.110	7.070
Electrical Conductivity (EC)	<4 mmhos/cm	mmhos/cm	0.150	1.17	0.742	4.02	6.56	13.5
Sodium Adsorption Ratio (SAR)	<6	ratio	5.20	13.1	4.88	12.3	12.20	44.00
pH	6.0-8.3	su	6.78	7.99	8.05	7.73	7.68	7.33
Metals in Soils								
Arsenic	0.68	mg/kg	NA	3.04	NA	3.72	NA	3.4
Barium	15,000	mg/kg	NA	282	NA	176	NA	141
Cadmium	71	mg/kg	NA	0.142	NA	0.163	NA	0.276
Chromium (Hexavalent)	0.3	mg/kg	NA	ND	NA	ND	NA	ND
Copper	3,100	mg/kg	NA	ND	NA	11.8	NA	14.7
Lead	400	mg/kg	NA	ND	NA	ND	NA	ND
Nickel	1,600	mg/kg	NA	ND	NA	ND	NA	10.50
Selenium	390	mg/kg	NA	0.19	NA	0.130	NA	0.193
Silver	390	mg/kg	NA	ND	NA	ND	NA	ND
Zinc	23,000	mg/kg	NA	ND	NA	ND	NA	ND

Concentrations in red font exceed Table 915-1 GSSL standards
RSSL = Residential Soil Screening Levels
ND - Non-detect - Analytical result is less than the reporting limit
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO/ORO)
SAR - Sodium Adsorption Ratio