

Table 1

**Soil Analytical Results - Soil Boring Samples**  
**Grynborg State 1 Pit**  
**Moffat County, Colorado**

Analyte	COGCC Table 915-1 RSSL Concentrations	Sample ID	SB01 SE	SB02 SW	SB03 NW	SB04 NE
		Date Sampled	5/27/2021	5/27/2021	5/27/2021	5/27/2021
		Depth (feet)	13-15	13	12.5	12.5
Volatile Organic Compounds (VOCs)		Units				
Benzene	1.2	mg/kg	2.2	0.86	7.9	12
Toluene	490	mg/kg	71	21	98	55
Ethylbenzene	5.8	mg/kg	24	14	47	42
Xylenes (total)	58	mg/kg	240	150	340	300
1,2,4-trimethylbenzene	30	mg/kg	52	35	84	76
1,3,5-trimethylbenzene	27	mg/kg	31	20	53	46
Naphthalene	2	mg/kg	3.4	2.7	7.0	5.6
Gasoline Range Organics (GRO)	NPS	mg/kg	3,100	1,900	5,700	5,400
Extractable Petroleum Hydrocarbons (DRO)	NPS	mg/kg	1,200	470	800	1,300
Extractable Petroleum Hydrocarbons (ORO)	NPS	mg/kg	<50	<50	<50	<50
Total Petroleum Hydrocarbons (TPH)	500	mg/kg	4,300	2,370	6,500	6,700
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	360	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Anthracene	1800	mg/kg	0.0238	0.0101	0.0271	0.00730
Benz(a)anthracene	1.1	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(a)pyrene	0.11	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(b)fluoranthene	1.1	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(k)fluoranthene	11	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Chrysene	110	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Dibenzo(a,h)anthracene	0.11	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Fluoranthene	240	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Fluorene	240	mg/kg	0.0274	0.000843	0.0323	<0.00500
Indeno(1,2,3-cd)pyrene	1.1	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
Pyrene	180	mg/kg	<0.00500	<0.00500	<0.00500	<0.00500
1-Methylnaphthalene	18	mg/kg	1.49	0.802	0.959	1.34
2-Methylnaphthalene	24	mg/kg	2.25	1.36	1.46	2.31
Total Metals						
Arsenic	0.68	mg/kg	88.8	51.5	81.1	61.8
Barium	15,000	mg/kg	92.0	53.8	65.3	68.9
Cadmium	71	mg/kg	<0.256	<0.248	<0.253	<0.249
Copper	3,100	mg/kg	40.2	26.5	45.5	38.9
Lead	400	mg/kg	18.8	10.1	16.0	24.6
Nickel	1,500	mg/kg	10.8	3.13	10.6	6.47
Selenium	390	mg/kg	5.58	1.86	5.05	3.49
Silver	390	mg/kg	0.117	0.0715	0.138	0.0731
Zinc	23,000	mg/kg	23.8	13.7	21.2	27.6
Chromium, Hexavalent	0.3	mg/kg	<0.30	<0.30	<0.30	<0.30
Reclamation Suitability Parameters						
Sodium Absorption Ratio	6	--	5.44	5.03	1.24	0.763
Boron	2	mg/L	0.939	1.19	1.05	1.19
pH	6-8.3	--	4.21	3.82	6.70	6.50
Specific Conductance (EC)	4	mmhos/cm	4.68	3.69	0.117	0.0714

**Notes**

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

NPS - no published standard

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mmhos/cm - millimhos per centimeter

&lt; = less than the indicated laboratory reporting limit

**Bold** - Indicates result exceeds the applicable regulatory standard

-- - not applicable

SAR is calculated by equation