

Table 1

**Soil Analytical Results
Waag South Pad
Weld County, Colorado**

Analyte	COGCC Table 915-1 PGSSL Concentrations	Sample ID	SS01
		Date Sampled	8/31/2021
		Depth (Inches)	0-1
Volatile Organic Compounds (VOCs)		Units	
Benzene	0.0026	mg/kg	10
Toluene	0.69	mg/kg	17
Ethylbenzene	0.78	mg/kg	8.7
Xylenes (total)	9.9	mg/kg	40
1,2,4-trimethylbenzene	0.0081	mg/kg	4.7
1,3,5-trimethylbenzene	0.0087	mg/kg	4.3
Naphthalene	0.0038	mg/kg	4.6
Gasoline Range Organics (GRO)	NPS	mg/kg	6,400
Extractable Petroleum Hydrocarbons (DRO)	NPS	mg/kg	6,500
Extractable Petroleum Hydrocarbons (ORO)	NPS	mg/kg	790
Total Petroleum Hydrocarbons (TPH)	500	mg/kg	13,690
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.55	mg/kg	ND
Anthracene	5.8	mg/kg	ND
Benz(a)anthracene	0.011	mg/kg	0.262
Benzo(a)pyrene	0.3	mg/kg	ND
Benzo(b)fluoranthene	2.9	mg/kg	ND
Benzo(k)fluoranthene	0.24	mg/kg	ND
Chrysene	9	mg/kg	0.173
Dibenzo(a,h)anthracene	0.096	mg/kg	ND
Fluoranthene	8.9	mg/kg	ND
Fluorene	0.54	mg/kg	1.07
Indeno(1,2,3-cd)pyrene	0.98	mg/kg	ND
Pyrene	1.3	mg/kg	ND
1-Methylnaphthalene	0.006	mg/kg	13.7
2-Methylnaphthalene	0.019	mg/kg	16.7
Total Metals			
Arsenic	0.29	mg/kg	3.88
Barium	82	mg/kg	179
Cadmium	0.38	mg/kg	ND
Copper	46	mg/kg	6.92
Lead	14	mg/kg	5.7
Nickel	26	mg/kg	7.45
Selenium	0.26	mg/kg	0.46
Silver	0.8	mg/kg	0.0316
Zinc	370	mg/kg	29.8
Chromium, Hexavalent	0.00067	mg/kg	ND
Reclamation Suitability Parameters			
Sodium Absorption Ratio	6	--	0.1
Boron	2	mg/L	0.191
pH	6-8.3	--	8.27
Specific Conductance (EC)	4	mmhos/cm	1.4

Notes

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

PGSSL - Protection of Groundwater Soil Screening Level

NPS - no published standard

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mmhos/cm - millimhos per centimeter

< = less than the indicated laboratory reporting limit

Bold - Indicates result exceeds the applicable regulatory standard

-- - not applicable

SAR is calculated by equation