

TABLE 1
Waste Characterization and Background Soil Analytical Results
Pierce Unit Kennedy #3 Wellhead Cut and Cap. Weld County, Colorado

Analyte	COGCC Table 915-1 RSSL	SS1-4	BG1-2	BG2-7	Units
Sample Information					
Sample Date	NA	4/26/2021	4/26/2021	5/27/2021	mm/dd/yyyy
Sample Depth	NA	4	2	7	ft-bgs
Field Screening	NA	496	0	0.2	ppm
Total Petroleum Hydrocarbons (TPH)					
Gasoline Range Organics	500	466	-	-	mg/kg
Diesel Range Organics	500	6,260	-	-	mg/kg
Oil Range Organics	500	1,770	-	-	mg/kg
TPH	500	8,496	-	-	mg/kg
Organic Compounds in Soils					
Benzene	1.2	<0.0500	-	-	mg/kg
Toluene	490	<0.0500	-	-	mg/kg
Ethylbenzene	5.8	1.52	-	-	mg/kg
Total Xylenes	58	2.51	-	-	mg/kg
1,2,4-Trimethylbenzene	30	0.431	-	-	mg/kg
1,3,5-Trimethylbenzene	27	0.210	-	-	mg/kg
acenaphthene	360	<0.00067	-	-	mg/kg
anthracene	1,800	<0.00067	-	-	mg/kg
benz(a)anthracene	1.1	<0.00067	-	-	mg/kg
benzo(b)fluoranthene	1.1	<0.00067	-	-	mg/kg
benzo(k)fluoranthene	11	<0.00067	-	-	mg/kg
benzo(a)pyrene	0.11	<0.00067	-	-	mg/kg
chrysene	110	<0.00067	-	-	mg/kg
dibenzo(a,h)anthracene	0.11	<0.00067	-	-	mg/kg
fluoranthene	240	<0.00067	-	-	mg/kg
fluorene	240	<0.00067	-	-	mg/kg
indeno(1,2,3-cd)pyrene	1.1	<0.00067	-	-	mg/kg
1-methylnaphthalene	18	<0.00067	-	-	mg/kg
2-methylnaphthalene	24	<0.00067	-	-	mg/kg
naphthalene	2	<0.00067	-	-	mg/kg
pyrene	180	<0.00067	-	-	mg/kg

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Sample Depth	NA	4	2	7	ft-bgs
Field Screening	NA	496	0	0.2	ppm
Metals in Soils					
arsenic	0.68	4.65	2.25	-	mg/kg
barium	15,000	78.8	-	-	mg/kg
cadmium	71	0.25	-	-	mg/kg
chromium (VI)	0.3	<1	-	-	mg/kg
copper	3,100	9.01	-	-	mg/kg
lead	400	10.6	-	-	mg/kg
nickel	1,500	9.56	-	-	mg/kg
selenium	390	0.414	0.207	0.18	mg/kg
silver	390	0.0409	-	-	mg/kg
zinc	23,000	35.4	-	-	mg/kg
Soil Suitability for Reclamation					
pH	6 - 8.3	7.24	7.38	-	su
EC	4	1.61	0.369	-	mmhos/cm
Boron	2	1.4	0.3	-	mg/kg
SAR	6	6.80	0.86	0.904	unitless

Notes:

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

SS#-#: sample name - depth in ft. bgs

ft-bgs - feet below ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

su - standard units

mmhos/cm - millimhos per centimeter

EC - electrical conductivity

SAR - sodium adsorption ratio

Bold- indicates result is above the COGCC Table 915-1 RSSL