

TABLE 2
Analytical Results Summary: Waste Characterization and Background Soil Samples
Heinze #1 Tank Battery, Weld County, CO

Analyte	COGCC Table 915-1 GWSSL	COGCC Table 915-1 RSSL	WC01-3	EX11-5	BG1-1	BG1-3	BG2-1	BG2-3	Units
Sample Information									
Sample Date	-	-	2/25/2022	3/11/2022	2/25/2022	2/25/2022	2/25/2022	2/25/2022	mm/dd/yyyy
Sample Depth	-	-	3	5	1	3	1	3	feet
Field Screening	-	-	1,139	35.0	-	-	-	-	ppm
TPH in Soils									
gasoline range organics	500	500	214	1,550	-	-	-	-	mg/kg
diesel range organics	500	500	603	8,220	-	-	-	-	mg/kg
residual range organics	500	500	224	3,480	-	-	-	-	mg/kg
total petroleum hydrocarbons	500	500	1,041	13,250	-	-	-	-	mg/kg
Organic Compounds in Soils									
benzene	0.0026	1.2	0.0528	0.522	-	-	-	-	mg/kg
toluene	0.69	490	<0.00200	0.407	-	-	-	-	mg/kg
ethylbenzene	0.78	5.8	1.98	14.7	-	-	-	-	mg/kg
total xylenes	9.9	58	9.72	72.7	-	-	-	-	mg/kg
1,2,4-trimethylbenzene	0.0081	30	6.79	48.2	-	-	-	-	mg/kg
1,3,5-trimethylbenzene	0.0087	27	1.90	15.4	-	-	-	-	mg/kg
acenaphthene	0.55	360	0.103	0.103	-	-	-	-	mg/kg
anthracene	5.8	1,800	0.00686	0.0216	-	-	-	-	mg/kg
benzo(a)anthracene	0.011	1.1	0.00881	0.0159	-	-	-	-	mg/kg
benzo(b)fluoranthene	0.3	1.1	<0.0067	<0.0134	-	-	-	-	mg/kg
benzo(k)fluoranthene	2.9	11	<0.0067	0.0195	-	-	-	-	mg/kg
benzo(a)pyrene	0.24	0.11	0.00533	0.00964	-	-	-	-	mg/kg
chrysene	9	110	0.103	0.121	-	-	-	-	mg/kg
dibenzo(a,h)anthracene	0.096	0.11	<0.0067	<0.0134	-	-	-	-	mg/kg
fluoranthene	8.9	240	0.0061	<0.0134	-	-	-	-	mg/kg
fluorene	0.54	240	0.363	0.348	-	-	-	-	mg/kg
indeno(1,2,3-cd)pyrene	0.98	1.1	<0.0067	<0.0134	-	-	-	-	mg/kg
1-methylnaphthalene	0.006	18	3.1	2.15	-	-	-	-	mg/kg
2-methylnaphthalene	0.019	24	4.04	3.14	-	-	-	-	mg/kg
naphthalene	0.0038	2	1.24	4.20	-	-	-	-	mg/kg
pyrene	1.3	180	0.0357	<0.0134	-	-	-	-	mg/kg
Metals in Soil									
arsenic	0.29	0.68	2.91	2.3	1.69	1.54	1.44	3.08	mg/kg
barium	82	15,000	85.3	50.4	23.1	42.1	26	39.7	mg/kg
cadmium	0.38	71	0.113	0.114	-	-	-	-	mg/kg
chromium (VI)	0.00067	0.3	<0.517*	<0.505**	-	-	-	-	mg/kg
copper	46	3,100	6.52	3.96	-	-	-	-	mg/kg
lead	14	400	7.34	4.94	-	-	-	-	mg/kg
nickel	26	1,500	7.54	4.72	-	-	-	-	mg/kg
selenium	0.26	390	0.374	<0.25	0.267	0.323	0.286	0.208	mg/kg
silver	0.8	390	0.0332	0.0637	-	-	-	-	mg/kg
zinc	370	23,000	30.1	18.1	-	-	-	-	mg/kg
Soil Suitability Parameters									
EC	4	4	0.336	0.766	2.44	2.79	0.721	1.22	mmhos/cm
SAR	6	6	0.585	2.12	9.60	4.44	3.75	4.71	Unitless
pH	6-8.3	6-8.3	7.71	7.50	8.71	7.92	8.51	8.31	Unitless
boron	2	2	0.200	0.238	0.694	0.178	0.406	0.0987	mg/l

Notes:

COGCC - Colorado Oil and Gas Conservation Commission
 GWSSL - Protection to Groundwater Soil Screening Level
 SS#-#: Soil Sample ID - depth in ft-bgs
 ft-bgs - feet below ground surface
 ppm - parts per million
 TPH - total petroleum hydrocarbons
 mg/kg - milligrams per kilogram
 EC - electrical conductivity

mmhos/cm - millimhos per centimeter
 SAR - sodium adsorption ratio
 mg/l - milligrams per liter
Italics - estimated value, analyte below the laboratory's quantitation limit
 * - result was below the laboratory method detection limit of 0.252 mg/kg
 ** - result was below the laboratory method detection limit of 0.246 mg/kg
 < - indicates result was not detected and is less than the laboratory reporting limit
RED - indicates result is above the Table 915-1 GWSSL