

Table 1
Taproot Energy Partners
Facitily ID 467382
Briggsdale, Colorado

Table 1. Summary of Analytical Results

Sample Name	CAS Number	Units	Protection of Groundwater Soil Screening Level	Residential Soil Screening Level	BS1	FS1*	SS1*	SS2	SS3	SS4	SS5	SS6	SW1
Sample Date					6/24/21	6/10/21	6/10/21	6/24/21	6/24/21	6/24/21	6/24/21	6/24/21	6/10/21
Sample Depth					1 - 2 ft	6 - 6 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	2 - 3 ft
Metals													
ARSENIC	7440-38-2	mg/kg	0.29	0.68	2.04	NS	NS	2.26	2.45	2.13	2.2	2.35	NS
BARIUM	7440-39-3	mg/kg	82	15,000	183	NS	NS	198	216	197	220	190	NS
CADMIUM	7440-43-9	mg/kg	0.38	71	<0.5	NS	NS	<0.5	<0.5	<0.5	<0.5	<0.5	NS
CHROMIUM (VI)	18540-29-9	mg/kg	0.00067	0.3	NS	NS	NS	<1	<1	<1	<1	<1	NS
COPPER	7440-50-8	mg/kg	46	3,100	11.1	NS	NS	13	11.5	12.4	11	11.7	NS
LEAD	7439-92-1	mg/kg	14	400	12.8	NS	NS	10.2	11.1	10.7	10.5	10.4	NS
NICKEL	7440-02-0	mg/kg	26	1,500	9.75	NS	NS	12	10.4	11.5	9.1	10.6	NS
SELENIUM	7782-49-2	mg/kg	0.26	390	2.11	NS	NS	2.54	2.26	2.66	<2	<2	NS
SILVER	7440-22-4	mg/kg	0.8	390	<1	NS	NS	<1	<1	<1	<1	<1	NS
ZINC	7440-66-6	mg/kg	370	23,000	42.7	NS	NS	48.5	42	47.1	37	43.9	NS
VOCs													
BENZENE	71-43-2	mg/kg	0.0026	1.2	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS
ETHYLBENZENE	100-41-4	mg/kg	0.78	5.8	NS	NS	NS	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	NS
TOLUENE	108-88-3	mg/kg	0.69	490	NS	NS	NS	<0.005	<0.005	<0.005	<0.005	<0.005	NS
XYLENES, TOTAL	1330-20-7	mg/kg	9.9	58	NS	NS	NS	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	NS
1,2,4-TRIMETHYLBENZENE	95-63-6	mg/kg	0.0081	30	NS	NS	NS	<0.005	<0.005	<0.005	<0.005	<0.005	NS
1,3,5-TRIMETHYLBENZENE	108-67-8	mg/kg	0.0087	27	NS	NS	NS	<0.005	<0.005	<0.005	<0.005	<0.005	NS
Semi-VOCs													
1-METHYLNAPHTHALENE	90-12-0	mg/kg	0.006	18	NS	NS	NS	<0.02	<0.02	<0.02	<0.02	<0.02	NS
2-CHLORONAPHTHALENE	91-58-7	mg/kg	--	--	NS	NS	NS	<0.02	<0.02	<0.02	<0.02	<0.02	NS
2-METHYLNAPHTHALENE	91-57-6	mg/kg	0.019	24	NS	NS	NS	<0.02	<0.02	<0.02	<0.02	<0.02	NS
ACENAPHTHENE	83-32-9	mg/kg	0.55	360	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
ACENAPHTHYLENE	208-96-8	mg/kg	--	--	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
ANTHRACENE	120-12-7	mg/kg	5.8	1,800	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
BENZO(A)ANTHRACENE	56-55-3	mg/kg	0.011	1.1	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
BENZO(A)PYRENE	50-32-8	mg/kg	0.24	0.11	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
BENZO(B)FLUORANTHENE	205-99-2	mg/kg	0.3	1.1	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
BENZO(G,H,I)PERYLENE	191-24-2	mg/kg	--	--	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
BENZO(K)FLUORANTHENE	207-08-9	mg/kg	2.9	11	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
CHRYSENE	218-01-9	mg/kg	9	110	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
DIBENZ(A,H)ANTHRACENE	53-70-3	mg/kg	0.096	0.11	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
FLUORANTHENE	206-44-0	mg/kg	8.9	240	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
FLUORENE	86-73-7	mg/kg	0.54	240	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
INDENO(1,2,3-CD)PYRENE	193-39-5	mg/kg	0.98	1.1	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
NAPHTHALENE	91-20-3	mg/kg	0.0038	2	NS	NS	NS	<0.02	<0.02	<0.02	<0.02	<0.02	NS
PHENANTHRENE	85-01-8	mg/kg	--	--	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS
PYRENE	129-00-0	mg/kg	1.3	180	NS	NS	NS	<0.006	<0.006	<0.006	<0.006	<0.006	NS

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Sample Name	CAS Number	Units	Protection of Groundwater Soil Screening Level	Residential Soil Screening Level	BS1	FS1*	SS1*	SS2	SS3	SS4	SS5	SS6	SW1
Sample Date					6/24/21	6/10/21	6/10/21	6/24/21	6/24/21	6/24/21	6/24/21	6/24/21	6/10/21
Sample Depth					1 - 2 ft	6 - 6 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	2 - 3 ft
TPH **													
C6-C10 TPH	8006-61-9	mg/kg	--	500	NS	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5
C10-C28 DIESEL RANGE	NA	mg/kg	--	500	NS	<50	<50	5.98	<4	<4	<4	<4	<50
C28-C36 MOTOR OIL RANGE	NA	mg/kg	--	500	NS	<50	<50	8.02	5.11	6.95	7.17	<4	<50
Soil Suitability for Reclamation **													
SPECIFIC CONDUCTANCE	Specific Conductance	mmhos/cm	--	<4	0.358	0.114	0.120	0.487	0.197	0.259	0.242	0.216	0.0522
SODIUM ADSORPTION RATIO	NA	Na/(Ca+Mg)	--	<6	0.0784	0.213	1.45	1.12	0.226	0.147	0.253	0.186	0.5894
PH	PH	s.u.	--	6 - 8.3	7.72	7.8	8.21	7.97	8.16	8.08	8.08	8.1	7.98
BORON (hot water soluble)	7440-42-8	mg/l	--	2	0.47	0.042	0.06	0.494	0.335	0.343	0.483	0.416	0.0651

NOTES:
Boldface type indicates the analyte was detected above the reporting limit
Highlighted text indicates an exceedance of either the protection of groundwater soil screening level or residential soil screening level.
* Indicates samples collected during the initial release response.
** Where RSSL or protection of groundwater screening level is not present, Table 915-1 Cleanup Concentrations are used.
-- No standard established.
NA Not applicable
NS Not sampled

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Table 1. Summary of Analytical Results

Sample Name	CAS Number	SW2-3	SW3-3	SW4-3	SW5-3	SW6-3	SW7-3	SW8-3
Sample Date		6/24/21	6/24/21	6/24/21	6/24/21	6/24/2021	6/24/21	6/24/21
Sample Depth		3 - 4 ft	3 - 4 ft	2.5 - 3.5 ft	2.5 - 3.5 ft	3 - 4 ft	2.5 - 3.5 ft	2.5 - 3.5 ft
Metals								
ARSENIC	7440-38-2	3.27	3.44	2.95	3.64	3.24	2.88	3.84
BARIUM	7440-39-3	250	491	368	367	367	213	595
CADMIUM	7440-43-9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHROMIUM (VI)	18540-29-9	<1	<1	<1	<1	<1	<1	<1
COPPER	7440-50-8	15.4	16.1	13.6	16	16.2	14.1	14.5
LEAD	7439-92-1	10.7	11.7	9.49	12.2	10.3	9.78	11.5
NICKEL	7440-02-0	14.1	15.1	12.2	16	14.9	13.1	13.2
SELENIUM	7782-49-2	2.35	2.69	3.19	3.15	3.08	3	2.01
SILVER	7440-22-4	<1	<1	<1	<1	<1	<1	<1
ZINC	7440-66-6	54.8	58	49.1	59.6	67.6	50	50.1
VOCs								
BENZENE	71-43-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
ETHYLBENZENE	100-41-4	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
TOLUENE	108-88-3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
XYLENES, TOTAL	1330-20-7	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065	<0.0065
1,2,4-TRIMETHYLBENZENE	95-63-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-TRIMETHYLBENZENE	108-67-8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Semi-VOCs								
1-METHYLNAPHTHALENE	90-12-0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2-CHLORONAPHTHALENE	91-58-7	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
2-METHYLNAPHTHALENE	91-57-6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
ACENAPHTHENE	83-32-9	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
ACENAPHTHYLENE	208-96-8	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
ANTHRACENE	120-12-7	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
BENZO(A)ANTHRACENE	56-55-3	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
BENZO(A)PYRENE	50-32-8	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
BENZO(B)FLUORANTHENE	205-99-2	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
BENZO(G,H,I)PERYLENE	191-24-2	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
BENZO(K)FLUORANTHENE	207-08-9	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
CHRYSENE	218-01-9	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
DIBENZ(A,H)ANTHRACENE	53-70-3	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
FLUORANTHENE	206-44-0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
FLUORENE	86-73-7	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
INDENO(1,2,3-CD)PYRENE	193-39-5	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
NAPHTHALENE	91-20-3	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
PHENANTHRENE	85-01-8	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
PYRENE	129-00-0	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006

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Table 1. Summary of Analytical Results

Sample Name	CAS Number	SW2-3	SW3-3	SW4-3	SW5-3	SW6-3	SW7-3	SW8-3
Sample Date		6/24/21	6/24/21	6/24/21	6/24/21	6/24/2021	6/24/21	6/24/21
Sample Depth		3 - 4 ft	3 - 4 ft	2.5 - 3.5 ft	2.5 - 3.5 ft	3 - 4 ft	2.5 - 3.5 ft	2.5 - 3.5 ft
TPH **								
C6-C10 TPH	8006-61-9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C10-C28 DIESEL RANGE	NA	<4	<4	<4	<4	<4	<4	<4
C28-C36 MOTOR OIL RANGE	NA	4.61	<4	<4	<4	<4	<4	<4
Soil Suitability for Reclamation **								
SPECIFIC CONDUCTANCE	Specific Cond	0.612	1.330	0.550	1.580	1.490	0.526	0.420
SODIUM ADSORPTION RATIO	NA	2.11	2.29	2.43	2.4	2.17	1.87	2.19
PH	PH	8.11	7.85	8.16	7.86	7.87	8.09	8.34
BORON (hot water soluble)	7440-42-8	0.714	1.11	0.968	1.2	0.923	0.654	1

NOTES:

Boldface type indicates the analyte was detected above the reporting limit

Highlighted text indicates an exceedance of either the protection of groundwater soil screening level or residential soil screening level.

* Indicates samples collected during the initial release response.

** Where RSSL or protection of groundwater screening level is not present, Table 915-1 Cleanup Concentrations are used.

-- No standard established.

NA Not applicable

NS Not sampled