



May 17, 2024

Dave Brazeal
Dale Hunt
Director of Operations
Taproot Energy Partners
518 17th Street, Suite 1800
Denver, Colorado 80202

Submitted via e-mail to dhunt@taprootep.com

**RE: Confirmation Soil Sampling Following Produce Water Release
Spill/Release ID Point 482854. Remediation Project # 28120**

Dear Mr. Brazeal and Mr. Hunt,

Environmental Works, Inc. (EWI) is pleased to submit this letter report summarizing the additional investigation activities completed in conjunction with the initial release response on September 5, 2022, and follow-up confirmation sampling completed on September 8th, September 12th, and November 10th through 11th, 2022 at the Big Mountain Viper (BMV) Spill/Release Point ID 482854 near Briggsdale, Colorado (the Site). The purpose of this report is to aid with the submission of the Final Form 19 supplemental to the Energy and Carbon Management Commission (ECMC) and to satisfy the requirements to achieve Site closure in accordance with ECMC Guidance Rule 913, and 915.b.

Summary of Work Completed

Following excavation activities, EWI mobilized to the Site on September 5, 2022 to direct excavation activities and collect initial soil samples from select locations within the primary excavation area immediately following the release. Confirmation sampling of the shallow excavated areas and retention pond were completed on September 8th and September 12th. Surveying of maximum impacted aerial extent was completed hours after the release by Avery Technical Resources. GPS coordinates, sample names, and sample depths are recorded in Appendix A in accordance with ECMC Guidance Rule 915. Additional excavation and sampling was completed on November 10th and 11th 2022. The additional excavation was completed to the furthest reasonable extent due to the Site infrastructure and the Site being active. Sample locations, the produced water line, excavation extents, and select site features for reference are depicted on Figure 1A and 1B.

Based on evaluation of Site survey data, the following samples were recommended in accordance ECMC Guidance Table 915-1:

- 11 sidewall samples (SW1 through SW11) for the primary excavation where the release occurred. Six initial sidewall samples, and 5 following additional excavation on November 10-11, 2022.
- Two floor samples were collected at two separate depths (FS1 and FS2) for the primary excavation where the release occurred of less than 500 square feet (sq. ft.). The floor samples

Mr. Dave Brazeal and Mr. Dale Hunt
Big Mountain Viper (BMV) Produced Water Release
Spill/Release Point ID 482854 Remediation Project # 28120

were collected from the bottom of the excavation (from 7.5-10 feet below ground surface [bgs]) from the area where the highest impacts to soil would be expected, in accordance with ECMC Guidance Rule 915.

- 15 surface samples (SS1 through SS11) were collected from areas within the footprint of shallow impacted soil. Samples were collected from areas where approximately 0.5' of soil were removed. Approximately 25,000 sq ft. of impacted soil was initially observed.
- Three background samples (BS1 through BS3) were collected from soil outside the impacted area representative of native soil conditions.

Soil borings for sidewall samples were advanced with a hand auger while the excavations remained open following the initial release. Continuous soil screening for the presence of volatile organic compounds (VOCs) was also conducted on sidewall sample borings using a photoionization detector (PID) to aid in understanding Site conditions. All samples were collected from the areas anticipated to be the most impacted, in accordance with ECMC guidance. Following sampling, soil borings were abandoned with clean soil cuttings and the hand auger was decontaminated between borings.

Samples were immediately placed on ice and delivered to Origins lab a ECMC approved lab for analysis. All samples collected initially were analyzed for the full list of Table 915-1 analytes. Table 1 presents the full analytical results and compares them with the Residential Soil Screening Level Concentrations (RSSLs) listed in Table 915-1. Full Analytical Results are attached as Appendix B. According to ECMC Rule 915 RSSLs will be used with justification for deep groundwater and no determined pathway to groundwater unless otherwise required by the ECMC. Groundwater is located at an estimated 70 feet below ground surface based on topography and nearby well data. Well data backup was attached on previous Form 19 Supplemental reports.

EWI believes that RSSLs would be appropriate for this site, in accordance with guidance rule 915.a due to previous approval, as well as closure for the similar release that occurred at the facility previously (Document #403087804). Document #403087804 approved site closure using RSSLs and with limited exceedances of reclamation parameters left in place below the root zone when the extent of soil impacted by reclamation standards was completed to the extent practicable within an active facility.

A photographic log is attached as Appendix C to aid with the determination that appropriate action was taken to remove impacted material with the goal of achieving Site closure.

Results and Proposed Sampling

Exceedances of the RSSLs were only observed for arsenic, boron, sodium absorption ration (SAR), and conductivity.

Boron was detected in initial samples at a concentration slightly above the soil suitability for reclamation standard of 2 mg/kg in SW1 (2.04 mg/kg) and SW5 (2.43). Additional excavation surrounding the primary release location was completed on 11/10 and 11/11 to address these impacts. Step-out samples SW8 and SW9 still slightly exceeded Table 915 for Boron following the additional excavation activities, but were too close to facility infrastructure to continue benching and widening the excavation safely.

Mr. Dave Brazeal and Mr. Dale Hunt
Big Mountain Viper (BMV) Produced Water Release
Spill/Release Point ID 482854 Remediation Project # 28120

Once additional excavation was completed, SAR only exceeded the RSSLs in soil from SS6 and SS11, SW-8, SW-9, SW-10, and SW-11. All sidewall samples (SW) were below the root zone and vertically delineated within the primary excavation. Following the additional excavation completed on 11/10 and 11/11 limited exceedances for SAR remain at depth, below the primary root zone, but EWI and SWCA have determined they should not be a barrier to closure going forward.

Conductivity exceeded the RSSL of 4 mmhos/cm in several initial samples surrounding the primary excavation at a maximum concentration of 10.5 mmhos/cm. Secondary excavations have been completed, and follow-up sampling results displayed lower but still elevated levels in several locations. Due to facility infrastructure, a reclamation plan will be developed to allow limited exceedances to be left in place below the root zone. The highest remaining specific conductivity measurements were observed in samples SW-8 (7.04 mmhos/cm) and SW-9 (6.99 mmhos/cm) at a depth of 6'.

Arsenic was detected at concentrations above the RSSL in all soil samples that were analyzed, including the background samples, (8.41 milligrams per kilogram [mg/kg] in BS1 and 6.45 mg/kg in BS2). Concentrations of arsenic can vary significantly within a vertical section of soil due to natural variations within soil types. Although arsenic was elevated in many samples, concentrations were highest in the background sample. The concentrations observed at the Site are similar to elevated arsenic levels found in soils across the state and should not be a barrier to Site closure.

No semi-volatile or volatile compounds were detected in any soil samples above RSSLs. Limited total petroleum hydrocarbon (TPH) compounds were detected above the laboratory reporting limit, but well below the Cleanup Standards.

Soil samples at the Site following the initial excavation exhibited several exceedances of the RSSLs, primarily for reclamation parameters. A secondary excavation was completed around the primary excavation to address the initial exceedances on November 10th and 11th 2022, however some exceedances for reclamation parameters still remained. Vertical delineation is complete surrounding the primary excavation based on deeper samples from FS1 and FS2. Spatial delineation has also been completed to the extent practicable. Additional shallow soil excavation around SS6 and SS7 was completed to address the limited exceedances at the tail end of the produced water flow, as well as around SS10 and SS11. Further excavation around the primary excavation is not possible to continue safely due to facility infrastructure.

Following additional excavation activities, confirmation soil samples were collected to help delineate the vertical and horizontal extent of impacts at the Site where limited exceedances remain. A reclamation plan was previously developed for the Site to address remaining impacts in and around infrastructure, as well as impacts below a feasible depth of excavation.

EWI is requesting Site closure based guidance from Rule 913 and 915.b, request to leave elevated inorganics in situ. Soil samples at the Site exhibited few exceedances of the RSSLs and some exceedances were also observed in the background samples. Additionally, no detections of VOCs were present from PID screening of the soil at the time of sample collection. If the closure request is approved by the ECMC, Taproot should restore site conditions to the ECMC 1000 series rules, as applicable.

May 17, 2024

Page 4

Mr. Dave Brazeal and Mr. Dale Hunt
Big Mountain Viper (BMV) Produced Water Release
Spill/Release Point ID 482854 Remediation Project # 28120

We appreciate the opportunity to provide this letter report to Taproot Energy Partners. Please contact me at 507-475-2825 or akubat@environmentalworks.com if you have questions or we can be of further service.

Sincerely,

Adam Kubat, P.G.
Project Manager
Environmental Works, Inc.

Big Mountain Viper Figure 1A

Produced Water Release Extents

Site boundary fence

Surveyed extents of produced water impacts

Release location and primary excavation

SS1

SS2

SS5

SS6

SS7

BS1

BS2

SS3

SS4

BS3

SS8

SS9

SS11

SS10



Big Mountain Viper Figure 1B

Primary Excavation Extents

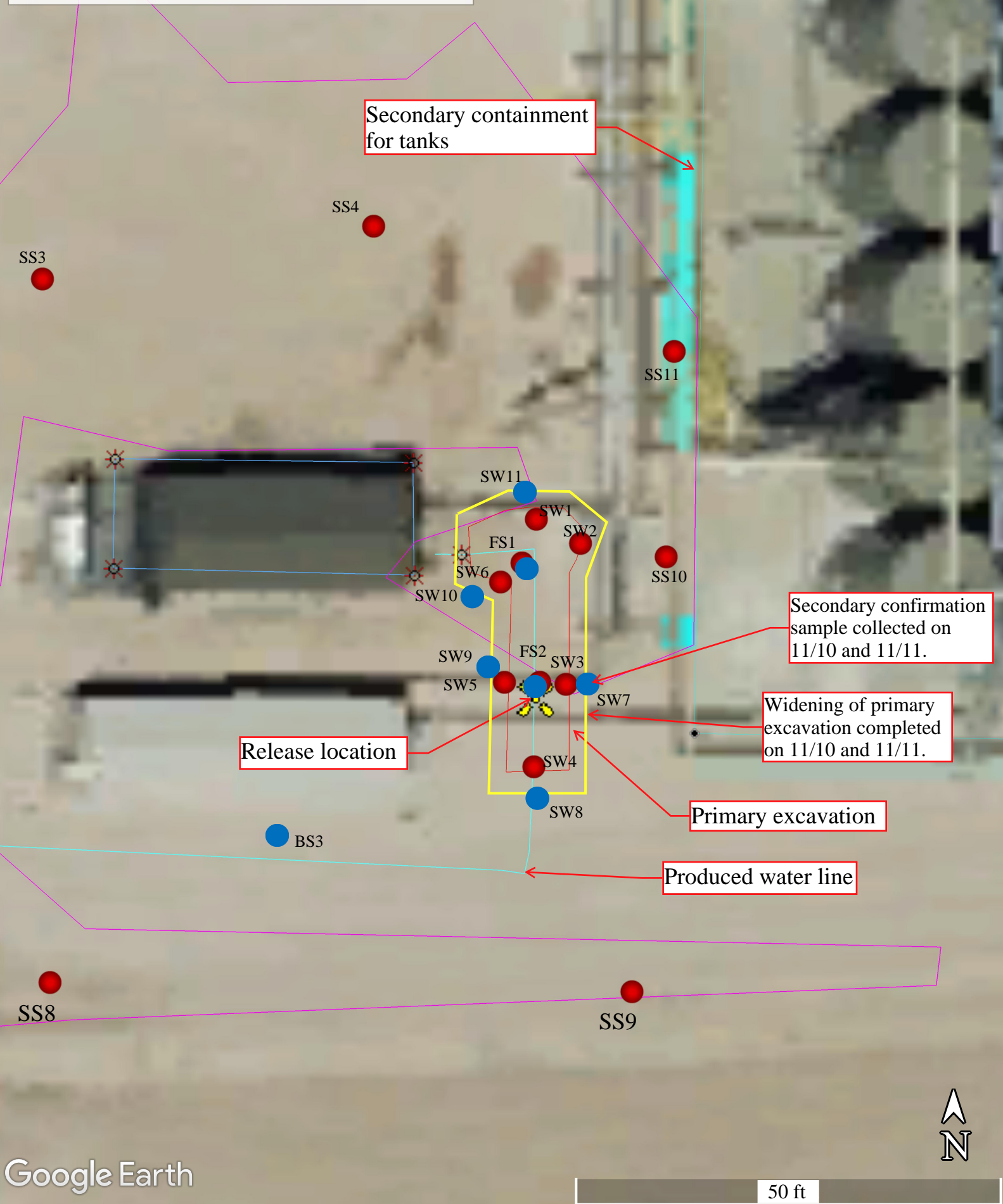


Table 1. Summary of Analytical Results

Station Name	CAS Number	Units	Residential Soil Screening Level Concentrations	BS1	BS2	BS3	FS1	FS1	FS2	FS2	SS1	SS2	SS3	SS4	SS5	SS6	SS6
Sample Date				9/8/22	9/8/22	11/10/22	9/12/22	11/11/22	9/12/22	11/10/22	9/8/22	9/8/22	9/8/22	9/8/22	9/8/22	9/8/22	11/10/22
Sample Depth				0 - 0.5 ft	0 - 0.5 ft	6 - 6.5 ft	9 - 9.5 ft	10 ft	7.5 - 8 ft	9 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	1 ft
Metals																	
ARSENIC	7440-38-2	mg/kg	0.68	8.41	6.45	3.03	6.15	1.56	8.69	3.17	1.91	2.51	2.89	2.69	5.86	4.98	4.45
BARIUM	7440-39-3	mg/kg	15,000	463	596	90.9	227	82.1	63.2	46.4	72.7	161	61.8	81.5	529	551	522
CADMIUM	7440-43-9	mg/kg	71	0.356	0.392	0.334	0.293	0.395	0.611	0.182	<0.0878	0.0985	<0.0869	0.129	0.328	0.29	0.283
CHROMIUM	7440-47-3	mg/kg	0.3	<0.511	<0.50	<0.244	<0.50	<0.244	<0.506	<0.252	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.22
COPPER	7440-50-8	mg/kg	3,100	16.7	17.5	9.96	10.7	9.16	11.3	10.3	<8.78	<8.64	<8.69	<9.31	13.9	13.7	13.8
LEAD	7439-92-1	mg/kg	400	17.3	20.2	11.7	11.7	12.0	11.3	14.7	<8.78	<8.64	<8.69	<9.31	22.4	13.1	28.9
NICKEL	7440-02-0	mg/kg	1,500	14.7	15.7	<9.67	10.3	<9.05	<8.90	<9.51	<8.78	<8.64	<8.69	<9.31	11	10.5	11.4
SELENIUM	7782-49-2	mg/kg	390	0.301	0.234	0.195	0.264	0.095	0.544	0.186	<0.0878	<0.0864	<0.0869	0.16	0.3	0.243	0.274
SILVER	7440-22-4	mg/kg	390	<0.0940	<0.0940	<0.0967	<0.0917	<0.0905	<0.0890	<0.0951	<0.0878	<0.0864	<0.0869	<0.0931	<0.0961	<0.0763	<0.0947
ZINC	7440-66-6	mg/kg	23,000	<94.0	<94.0	<96.7	<91.7	<90.5	<89.0	<95.1	<87.8	<86.4	<86.9	<93.1	<96.1	<76.3	<94.7
VOCs																	
BENZENE	71-43-2	mg/kg	1.2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS
ETHYLBENZENE	100-41-4	mg/kg	5.8	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS
TOLUENE	108-88-3	mg/kg	490	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	0.00232	NS
XYLENES, TOTAL	1330-20-7	mg/kg	58	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS
1,2,4-TRIMETHYLBENZENE	95-63-6	mg/kg	30	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS
1,3,5-TRIMETHYLBENZENE	108-67-8	mg/kg	27	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NS
Semi-VOCs																	
1-METHYLNAPHTHALENE	90-12-0	mg/kg	18	<0.00067	<0.00335	0.00141	0.271	<0.00109	0.000652	NS	<0.00067	0.00161	<0.00067	0.000858	<0.00067	<0.00067	NS
2-METHYLNAPHTHALENE	91-57-6	mg/kg	24	<0.00067	<0.00335	0.00234	0.149	<0.00194	<0.00067	NS	<0.00067	0.00108	<0.00067	0.000671	<0.00067	<0.00067	NS
ACENAPHTHENE	83-32-9	mg/kg	360	<0.00067	<0.00335	<0.000304	0.0126	<0.000304	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
ANTHRACENE	120-12-7	mg/kg	1,800	<0.00067	<0.00335	<0.000334	0.0049	<0.000334	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
BENZO(A)ANTHRACENE	56-55-3	mg/kg	1.1	<0.00067	<0.00335	<0.000493	0.00258	<0.000493	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
BENZO(A)PYRENE	50-32-8	mg/kg	0.11	<0.00067	<0.00335	<0.000468	<0.00067	<0.000468	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
BENZO(B)FLUORANTHENE	205-99-2	mg/kg	1.1	<0.00067	<0.00335	<0.000585	<0.00067	<0.000585	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
BENZO(K)FLUORANTHENE	207-08-9	mg/kg	11	<0.00067	<0.00335	<0.000437	<0.00067	<0.000437	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
CHRYSENE	218-01-9	mg/kg	110	<0.00067	<0.00335	<0.000624	0.0158	<0.000624	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
DIBENZ(A,H)ANTHRACENE	53-70-3	mg/kg	0.11	<0.00067	<0.00335	<0.000614	<0.00067	<0.000614	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
FLUORANTHENE	206-44-0	mg/kg	240	<0.00067	<0.00335	<0.000394	<0.00067	<0.000394	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
FLUORENE	86-73-7	mg/kg	240	<0.00067	<0.00335	0.00152	0.0478	<0.000286	<0.00067	NS	<0.00067	0.000413	<0.00067	<0.00067	<0.00067	<0.00067	NS
INDENO(1,2,3-CD)PYRENE	193-39-5	mg/kg	1.1	<0.00067	<0.00335	<0.000627	<0.00067	<0.000627	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
NAPHTHALENE	91-20-3	mg/kg	2	<0.00067	<0.00335	<0.00145	0.0143	<0.00145	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
PYRENE	129-00-0	mg/kg	180	<0.00067	<0.00335	<0.000643	0.00735	<0.000643	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NS
TPH**																	
TPH (low fraction)	8006-61-9	mg/kg	500	<0.2	<0.2		<0.2	<0.2	<0.2	NS	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NS
C10-C28 DIESEL RANGE	NA	mg/kg	500	<25	<25	<25	205	<25	<25	NS	<25	<25	<25	<25	<25	<25	NS
C28-C40 RESIDUAL RANGE ORGANICS	NA	mg/kg	500	<100	<100	<100	<100	<100	<100	NS	<100	<100	<100	<100	<100	<100	NS
Soil Suitability for Reclamation**																	
BORON	7440-42-8	mg/l	2	0.453	0.487	1.37	0.708	0.241	1.29	0.618	0.482	0.617	0.502	0.66	0.67	1.25	0.558
PH	NA	s.u.	6 - 8.3	8.2	8.21	8.15	7.92	8.00	7.87	7.96	8.27	8.07	7.99	8.02	7.8	7.99	7.74
SODIUM ADSORPTION RATIO	NA	NA	6	0.0793	0.0957	5.35	6.48	5.74	9.69	5.21	3.22	1.9	1.78	3.28	1.51	9.73	2.31
SPECIFIC CONDUCTANCE	NA	mmhos/cm	4	0.264	0.270	1.75	3.97	2.12	6.21	2.12	0.424	0.779	0.942	1.15	2.09	5.73	4.60

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.

** 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.

BS indicates a background sample collected from unaffected soil nearby.

FS indicates a sample collected from the floor of an excavation.

SS indicates a surface sample collected from the area of shallow excavation with limited impact from produced water.

SW indicates a sample collected from the sidewall of an excavation.

Sample has been removed during subsequent site activities.

Taproot Rockies Midstream
Big Mountain Viper Produced Water Release
Spill/Release Point ID 482854
Briggsdale, Colorado

Station Name	Residential Soil Screening Level Concentrations	SS7	SS7	SS8	SS9	SS10	SS10	SS11	SS11	SW1	SW2	SW3	SW4	SW5	SW6
Sample Date		9/8/22	11/10/22	9/8/22	9/8/22	9/12/22	11/10/22	9/12/22	11/10/22	9/12/22	9/12/22	9/12/22	9/12/22	9/12/22	9/12/22
Sample Depth		0 - 0.5 ft	1 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	2 ft	0 - 0.5 ft	2 ft	6 - 6.5 ft	6 - 6.5 ft	6 - 6.5 ft	7.5 - 8 ft	6 - 6.5 ft	6 - 6.5 ft
Metals															
ARSENIC	0.68	4.71	4.72	5.52	2.35	4.98	6.14	5.08	5.74	3.6	2.8	4.17	1.99	2.33	2.24
BARIUM	15,000	377	334	528	48.1	343	512	366	510	211	223	264	137	102	110
CADMIUM	71	0.268	0.306	0.269	0.0938	0.399	0.251	0.276	0.252	0.249	0.599	0.289	0.211	0.216	0.461
CHROMIUM	0.3	<0.514	<1.26	<0.50	<0.52	<2.51	<0.246	<2.54	<0.488	<0.51	<0.515	<0.502	<0.513	<0.503	<0.51
COPPER	3,100	12.6	14.1	11.3	<9.29	13.5	12.8	13.3	12.2	<9.51	<9.39	10.9	10.9	9.47	9.34
LEAD	400	11.1	13.4	10.6	<9.29	12.4	18.4	15.4	13.1	17.8	12.2	12.6	12	12.7	13
NICKEL	1,500	11	11.8	9.58	<9.29	11.1	11.6	11.7	10.9	<9.51	<9.39	10.3	13.1	<8.83	<8.66
SELENIUM	390	0.23	0.335	0.252	<0.0929	0.207	0.298	0.32	0.296	0.235	0.181	0.146	0.136	0.173	0.221
SILVER	390	<0.0897	<0.0921	<0.0926	<0.0929	0.156	<0.0964	<0.0898	<0.0974	<0.0951	<0.0939	<0.0801	<0.0867	<0.0883	<0.0866
ZINC	23,000	<89.7	<92.1	<92.6	<92.9	<93.9	<96.4	<89.8	<97.4	<95.1	<93.9	<80.1	<86.7	<88.3	<86.6
VOCs															
BENZENE	1.2	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ETHYLBENZENE	5.8	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOLUENE	490	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
XYLENES, TOTAL	58	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-TRIMETHYLBENZENE	30	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	0.0187	<0.002	<0.002	<0.002
1,3,5-TRIMETHYLBENZENE	27	<0.002	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	<0.002	<0.002	0.00434	<0.002	<0.002	<0.002
Semi-VOCs															
1-METHYLNAPHTHALENE	18	<0.00067	NS	<0.00067	<0.00067	0.00131	NS	<0.00067	NS	0.000631	<0.00067	1.56	0.000563	<0.00067	<0.00067
2-METHYLNAPHTHALENE	24	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	0.000707	<0.00067	0.455	<0.00067	<0.00067	<0.00067
ACENAPHTHENE	360	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0454	<0.00067	<0.00067	<0.00067
ANTHRACENE	1,800	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0191	<0.00067	<0.00067	<0.00067
BENZO(A)ANTHRACENE	1.1	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0073	<0.00067	<0.00067	<0.00067
BENZO(A)PYRENE	0.11	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BENZO(B)FLUORANTHENE	1.1	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0081	<0.00067	<0.00067	<0.00067
BENZO(K)FLUORANTHENE	11	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
CHRYSENE	110	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0873	<0.00067	<0.00067	<0.00067
DIBENZ(A,H)ANTHRACENE	0.11	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FLUORANTHENE	240	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FLUORENE	240	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.217	<0.00067	<0.00067	<0.00067
INDENO(1,2,3-CD)PYRENE	1.1	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
NAPHTHALENE	2	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0703	<0.00067	<0.00067	<0.00067
PYRENE	180	<0.00067	NS	<0.00067	<0.00067	<0.00067	NS	<0.00067	NS	<0.00067	<0.00067	0.0506	<0.00067	<0.00067	<0.00067
TPH**															
TPH (low fraction)	500	<0.2	NS	<0.2	<0.2	<0.2	NS	<0.2	NS	<0.2	<0.2	0.382	<0.2	<0.2	<0.2
C10-C28 DIESEL RANGE	500	<25	NS	<25	<25	<25	NS	<25	NS	<25	<25	39.9	<25	<25	<25
C28-C40 RESIDUAL RANGE ORGANICS	500	<100	NS	<100	<100	<100	NS	<100	NS	<100	<100	<100	<100	<100	<100
Soil Suitability for Reclamation**															
BORON	2	1.54	0.573	1.3	0.61	0.989	0.701	11.4	0.987	2.04	0.94	1.37	0.529	2.43	1.14
PH	6 - 8.3	7.77	7.80	8.07	8.1	7.71	8.37	8.12	8.16	7.96	7.94	7.9	7.96	7.9	7.91
SODIUM ADSORPTION RATIO	6	7.47	1.74	5.44	1.47	6.66	5.76	34.8	6.67	9.78	5.73	17.9	6.43	10.7	6.54
SPECIFIC CONDUCTANCE	4	6.12	3.78	2.01	0.647	8.28	0.806	10.5	1.98	4.39	3.26	8.34	2.84	6.98	5.83

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.

** 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.

BS indicates a background sample collected from unaffected soil nearby.

FS indicates a sample collected from the floor of an excavation.

SS indicates a surface sample collected from the area of shallow excavation with limited impact from produced water.

SW indicates a sample collected from the sidewall of an excavation.

Sample has been removed during subsequent site activities.

Taproot Rockies Midstream
Big Mountain Viper Produced Water Release
Spill/Release Point ID 482854
Briggsdale, Colorado

Station Name	Residential Soil Screening Level Concentrations	SW7	SW8	SW9	SW10	SW11	Backfill
Sample Date		11/10/22	11/10/22	11/10/22	11/10/22	11/11/22	11/10/2022
Sample Depth		6 ft	7.5 ft	6 ft	6 ft	6 ft	
Metals							
ARSENIC	0.68	3.13	4.36	3.26	1.89	3.75	6.18
BARIUM	15,000	386	237	160	117	229	573
CADMIUM	71	0.210	0.220	0.216	0.583	0.258	0.272
CHROMIUM	0.3	<0.244	<0.467	<0.244	<0.249	<0.492	<0.488
COPPER	3,100	10.5	11.8	11.0	<9.50	11.1	14.1
LEAD	400	12.9	12.8	12.8	13.1	13.7	16.6
NICKEL	1,500	9.64	10.6	<9.35	<9.50	10.0	12.5
SELENIUM	390	0.311	0.260	0.196	0.106	0.217	0.294
SILVER	390	<0.0945	<0.0862	<0.0935	<0.095	<0.0962	<0.0941
ZINC	23,000	<94.5	<86.2	<93.5		<96.2	<94.1
VOCs							
BENZENE	1.2	<0.002	NS	NS	NS	NS	<0.002
ETHYLBENZENE	5.8	<0.002	NS	NS	NS	NS	<0.002
TOLUENE	490	<0.002	NS	NS	NS	NS	<0.002
XYLENES, TOTAL	58	<0.002	NS	NS	NS	NS	<0.002
1,2,4-TRIMETHYLBENZENE	30	<0.002	NS	NS	NS	NS	<0.002
1,3,5-TRIMETHYLBENZENE	27	<0.002	NS	NS	NS	NS	<0.002
Semi-VOCs							
1-METHYLNAPHTHALENE	18	<0.00109	NS	NS	NS	NS	<0.00109
2-METHYLNAPHTHALENE	24	<0.00194	NS	NS	NS	NS	<0.00194
ACENAPHTHENE	360	<0.000304	NS	NS	NS	NS	<0.000304
ANTHRACENE	1,800	<0.000334	NS	NS	NS	NS	<0.000334
BENZO(A)ANTHRACENE	1.1	<0.000493	NS	NS	NS	NS	<0.000493
BENZO(A)PYRENE	0.11	<0.000468	NS	NS	NS	NS	<0.000468
BENZO(B)FLUORANTHENE	1.1	<0.000585	NS	NS	NS	NS	<0.000585
BENZO(K)FLUORANTHENE	11	<0.000437	NS	NS	NS	NS	<0.000437
CHRYSENE	110	<0.000624	NS	NS	NS	NS	<0.000624
DIBENZ(A,H)ANTHRACENE	0.11	<0.000614	NS	NS	NS	NS	<0.000614
FLUORANTHENE	240	<0.000394	NS	NS	NS	NS	<0.000394
FLUORENE	240	<0.000286	NS	NS	NS	NS	<0.000286
INDENO(1,2,3-CD)PYRENE	1.1	<0.000627	NS	NS	NS	NS	<0.000627
NAPHTHALENE	2	<0.00145	NS	NS	NS	NS	<0.00145
PYRENE	180	<0.000643	NS	NS	NS	NS	<0.000643
TPH**							
TPH (low fraction)	500	<0.2	NS	NS	NS	NS	<0.2
C10-C28 DIESEL RANGE	500	<25	NS	NS	NS	NS	<25
C28-C40 RESIDUAL RANGE ORGANICS	500	<100	NS	NS	NS	NS	<100
Soil Suitability for Reclamation**							
BORON	2	0.909	4.09	5.40	0.812	1.96	0.856
PH	6 - 8.3	8.03	7.94	7.90	8.00	7.70	8.24
SODIUM ADSORPTION RATIO	6	5.65	15.8	17.8	8.65	8.03	3.69
SPECIFIC CONDUCTANCE	4	1.98	7.04	6.99	3.55	2.21	1.23

NOTES:

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SW indicates a sample collected from the sidewall of an excavation.

Sample has been removed during subsequent investigations

October 03, 2022

Environmental Works

Adam Kubat

AP@environmentalworks.com

Briggsdale CO 80204

Project Name - Taproot-BMV

Project Number - 222791

Attached are your analytical results for Taproot-BMV received by Origins Laboratory, Inc. September 09, 2022. This project is associated with Origins project number Y209177-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1-0.5	Y209177-01	Soil	September 8, 2022 11:45	09/09/2022 08:30
SS2-0.5	Y209177-02	Soil	September 8, 2022 11:50	09/09/2022 08:30
SS3-0.5	Y209177-03	Soil	September 8, 2022 11:55	09/09/2022 08:30
SS4-0.5	Y209177-04	Soil	September 8, 2022 12:00	09/09/2022 08:30
SS5-0.5	Y209177-05	Soil	September 8, 2022 12:05	09/09/2022 08:30
SS6-0.5	Y209177-06	Soil	September 8, 2022 12:10	09/09/2022 08:30
SS7-0.5	Y209177-07	Soil	September 8, 2022 12:15	09/09/2022 08:30
SS8-0.5	Y209177-08	Soil	September 8, 2022 12:20	09/09/2022 08:30
SS9-0.5	Y209177-09	Soil	September 8, 2022 12:45	09/09/2022 08:30
BS1-0.5	Y209177-10	Soil	September 8, 2022 12:25	09/09/2022 08:30
BS2-0.5	Y209177-11	Soil	September 8, 2022 12:50	09/09/2022 08:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

Year 17

Report to: Adam Kubat
 Email to: AKubat@environmentalworks.com
 Project Description: Taproot - BMV
 City/State: Briggsdale, CO
 Phone: 507-475-2885
 Client Project #: 222791
 Site/Facility ID #: 162791
 Collected by (print): Adam Kubat
 Collected by (signature): [Signature]
 Rush? (Lab MUST Be Notified)
 Same Day ___ Five Day ___
 Next Day ___ 3 Day (Flat Only) ___
 Two Day ___ 10 Day (Flat Only) ___
 Three Day ___
 Immediately Faced on Ice: N ___ Y

Billing Information: AP@environmentalworks.com
 Pres Chk
 Chain of Custody Page 1 of 2

12005 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-258-6888
 Phone: 800-767-8559
 Fax: 615-258-8889

SOG #
 Table #
 Account #
 Template #
 Program #
 PIN #
 PB #
 Shipped Via #
 Remarks

Sample ID	Comp/Grab	Matrx*	Depth	Date	Time	Conc	Remarks
S51-0.5	G	SS	0-0.5	9/8	1145	2	X
S52-0.5			0-0.5		1150	2	X
S53-0.5			0-0.5		1155	2	X
S54-0.5			0-0.5		1200	2	X
S55-0.5			0-0.5		1205	2	X
S56-0.5			0-0.5		1210	2	X
S57-0.5			0-0.5		1215	2	X
S58-0.5			0-0.5		1220	2	X
S59-0.5			0-0.5		1225	2	X
B51-0.5	V		0-0.5		1225	2	X

Sample Matrix Checklist:
 GC Seal Present/Intact: ___ Y ___ N
 GC Sealed/Accurate: ___ Y ___ N
 Bottles arrive intact: ___ Y ___ N
 Correct bottles used: ___ Y ___ N
 Sufficient volume sent: ___ Y ___ N
 GC applicable: ___ Y ___ N
 Vial zero Residue: ___ Y ___ N
 Preservation correct/Checked: ___ Y ___ N
 BAW Screen <0.5 μm/hr: ___ Y ___ N
 If preservation required by Logic: Date/Time

PH: ___ Temp: ___
 Flow: ___ Other: ___
 Trip Blank Received: Yes/No
 HC/Meth TBR
 Temp: °C 60
 BAW Received: ___

Relinquished by (Signature): [Signature] Date: 9/8/22 Time: 1645
 Relinquished by (Signature): [Signature] Date: ___ Time: ___
 Relinquished by (Signature): [Signature] Date: ___ Time: ___

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

12895 Johnson Rd
Mount Juliet, TN 37122
Phone: 615-258-8888
Fax: 615-258-9599

Chain of Custody Page 2 of 2

12895 Johnson Rd
Mount Juliet, TN 37122
Phone: 615-258-8888
Fax: 615-258-9599

SGS #

Table #

Account:

Template:

Priority:

PN:

PB:

Shipped Via:

Remarks:

Sample # (Lab-Only)

Analysis / Container / Preservative

Billing Information: *AP@environmentalworks.com*

Preis Chk

Report to: *Adam Kubat*

Email to: *AKubat@Environmentalworks.com*

City/State Collected: *Briggsdale, CO*

Phase Code: *PT (M) CT ET*

Client Project #: *222791*

Lab Project #

P.O. #

Quote #

Date Results Needed:

Site/Facility ID #

Right? (Lab MUST Be Notified)

Same Day Five Day

Next Day 5 Day (Rad Only)

Two Day 10 Day (Rad Only)

Three Day

Immediately

Packed on ice: N Y

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

Chrs

6

55

0.05

9/8

12:50

2

X

Matrix:

SS - Soil

AW - Air

F - Filter

GW - Groundwater

B - Biosassy

WW - Waste Water

DW - Drinking Water

OT - Other

Remarks:

Sampler returned via: UPS FedEx Courier

Tracking #

Received by (Signature): *[Signature]*

Date: *9/18/22*

Time: *6:45*

Received by (Signature): *[Signature]*

Date: *9/18/22*

Time: *6:45*

Received by (Signature): *[Signature]*

Date: *9/18/22*

Time: *6:45*

Sample Receipt Checklist

100 Seal Present/Intact: Y N

100 Signed/Accurate: Y N

Bottles arrive intact: Y N

Current bottles used: Y N

Sufficient volume used: Y N

IF Analyzable

100 Zero Inhibitors: Y N

Preservation Correct/Complete: Y N

100 Screen < 0.5 µm: Y N

If preservation required by Login: Date/Time

pH

Temp

Flow

Other

Trip Blank Received: Yes No

HG / Mechl

TR

Temp: *6.0*

°C

Boiler Received: Yes No

Date: *9/18/22*

Time: *6:45*

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y209177

Client: Environmental works

Client Project ID: Taproot - BMV

Checklist Completed by: DE

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 09/09/2022

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 6.0-c / _____ °c / _____ °c (Describe) _____ °c

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: AB (Project Manager)

Date/Time Reviewed: 9-12-22

Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS1-0.5

9/8/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.482		0.0983	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %		70-130			"	"	"	
----------------------------------	--------	--	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS1-0.5

9/8/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.6 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	90.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.16		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.67		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS1-0.5

9/8/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.
Y209177-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	3.22			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.424		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	1.91		0.0878	mg/kg	5	B211202	09/12/2022	09/14/2022	
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Origins Laboratory, Inc.



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Environmental Works
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 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SS1-0.5

9/8/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-01 (Soil)

Table 915 metals by EPA 6020B

Barium	72.7		8.78	mg/kg	5	B211202	09/12/2022	09/14/2022	
Cadmium	ND		0.0878	"	"	"	"	"	
Copper	ND		8.78	"	"	"	"	"	
Lead	ND		8.78	"	"	"	"	"	
Nickel	ND		8.78	"	"	"	"	"	
Selenium	ND		0.0878	"	"	"	"	"	
Silver	ND		0.0878	"	"	"	"	"	
Zinc	ND		87.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Origins Laboratory, Inc.



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Environmental Works
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Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SS2-0.5
9/8/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.617		0.101	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.2 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS2-0.5

9/8/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.4 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	93.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.54		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.69		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00161	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	0.00108	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS2-0.5

9/8/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-02 (Soil)

PAH by 8270D SIM

Fluorene	0.000413	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	1.90			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.779		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.51		0.0864	mg/kg	5	B211202	09/12/2022	09/14/2022	
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Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SS2-0.5

9/8/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-02 (Soil)

Table 915 metals by EPA 6020B

Barium	161		8.64	mg/kg	5	B211202	09/12/2022	09/14/2022	
Cadmium	0.0985		0.0864	"	"	"	"	"	
Copper	ND		8.64	"	"	"	"	"	
Lead	ND		8.64	"	"	"	"	"	
Nickel	ND		8.64	"	"	"	"	"	
Selenium	ND		0.0864	"	"	"	"	"	
Silver	ND		0.0864	"	"	"	"	"	
Zinc	ND		86.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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 Project: Taproot-BMV

SS3-0.5

9/8/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.502		0.100	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS3-0.5

9/8/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.2 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	86.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.62		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.90		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Project Number: 222791

Project: Taproot-BMV

SS3-0.5

9/8/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	36.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	1.78			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.942		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.89		0.0869	mg/kg	5	B211202	09/12/2022	09/14/2022	
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 Project Number: 222791
 Project: Taproot-BMV

SS3-0.5

9/8/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-03 (Soil)

Table 915 metals by EPA 6020B

Barium	61.8		8.69	mg/kg	5	B211202	09/12/2022	09/14/2022	
Cadmium	ND		0.0869	"	"	"	"	"	
Copper	ND		8.69	"	"	"	"	"	
Lead	ND		8.69	"	"	"	"	"	
Nickel	ND		8.69	"	"	"	"	"	
Selenium	ND		0.0869	"	"	"	"	"	
Silver	ND		0.0869	"	"	"	"	"	
Zinc	ND		86.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Origins Laboratory, Inc.



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Project Number: 222791

Project: Taproot-BMV

SS4-0.5

9/8/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.660		0.0982	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.8 %		70-130			"	"	"	
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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS4-0.5

9/8/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.0 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.20		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.13		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000858	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	0.000671	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS4-0.5

9/8/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	41.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	3.28			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.15		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.69		0.0931	mg/kg	5	B211202	09/12/2022	09/14/2022	
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 Project: Taproot-BMV

SS4-0.5
9/8/2022 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-04 (Soil)

Table 915 metals by EPA 6020B

Barium	81.5		9.31	mg/kg	5	B211202	09/12/2022	09/14/2022	
Cadmium	0.129		0.0931	"	"	"	"	"	
Copper	ND		9.31	"	"	"	"	"	
Lead	ND		9.31	"	"	"	"	"	
Nickel	ND		9.31	"	"	"	"	"	
Selenium	0.160		0.0931	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	ND		93.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS5-0.5

9/8/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.670		0.0986	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.2 %		70-130			"	"	"	
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Project Number: 222791

Project: Taproot-BMV

SS5-0.5

9/8/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.8 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	89.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	13.5		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	1.69		0.823	"	"	"	"	"	
Sodium	4.16		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS5-0.5

9/8/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	1.51			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.09		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	5.86		0.0961	mg/kg	5	B211202	09/12/2022	09/15/2022	
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Briggsdale CO 80204

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Project Number: 222791

Project: Taproot-BMV

SS5-0.5

9/8/2022 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-05 (Soil)

Table 915 metals by EPA 6020B

Barium	529		9.61	mg/kg	5	B211202	09/12/2022	09/15/2022	
Cadmium	0.328		0.0961	"	"	"	"	"	
Copper	13.9		9.61	"	"	"	"	"	
Lead	22.4		9.61	"	"	"	"	"	
Nickel	11.0		9.61	"	"	"	"	09/14/2022	
Selenium	0.300		0.0961	"	"	"	"	09/15/2022	
Silver	ND		0.0961	"	"	"	"	"	
Zinc	ND		96.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS6-0.5

9/8/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.25		0.0996	mg/L	1	B211208	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00232		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.7 %		70-130			"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS6-0.5

9/8/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			B21100 5	09/10/2022	09/15/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	18.1		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	2.17		0.823	"	"	"	"	"	
Sodium	30.9		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS6-0.5

9/8/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B211211	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	9.73			SAR	1	B211205	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.73		0.00500	mmhos/cm	1	B211211	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.98		0.0763	mg/kg	5	B211202	09/12/2022	09/15/2022	
Barium	551		7.63	"	"	"	"	"	

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS6-0.5

9/8/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-06 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.290		0.0763	mg/kg	5	B211202	09/12/2022	09/15/2022	
Copper	13.7		7.63	"	"	"	"	"	
Lead	13.1		7.63	"	"	"	"	"	
Nickel	10.5		7.63	"	"	"	"	09/14/2022	
Selenium	0.243		0.0763	"	"	"	"	09/15/2022	
Silver	ND		0.0763	"	"	"	"	"	
Zinc	ND		76.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS7-0.5

9/8/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-07 (Soil)

Boron (DTPA Sorbitol)

Boron	1.54		0.100	mg/L	1	B211209	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.0 %		70-130			"	"	"	
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Project Number: 222791

Project: Taproot-BMV

SS7-0.5

9/8/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.1 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	92.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	26.4		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	2.38		0.823	"	"	"	"	"	
Sodium	28.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS7-0.5

9/8/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209177-07 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.77			pH Units	1	B211212	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	7.47			SAR	1	B211206	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.12		0.00500	mmhos/cm	1	B211212	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.71		0.0897	mg/kg	5	B211202	09/12/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS7-0.5

9/8/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-07 (Soil)

Table 915 metals by EPA 6020B

Barium	377		8.97	mg/kg	5	B211202	09/12/2022	09/15/2022	
Cadmium	0.268		0.0897	"	"	"	"	"	
Copper	12.6		8.97	"	"	"	"	"	
Lead	11.1		8.97	"	"	"	"	"	
Nickel	11.0		8.97	"	"	"	"	09/14/2022	
Selenium	0.230		0.0897	"	"	"	"	09/15/2022	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	ND		89.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Project: Taproot-BMV

SS8-0.5

9/8/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.30		0.0988	mg/L	1	B211209	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	83.9 %		70-130			"	"	"	
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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS8-0.5

9/8/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	89.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.97		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	1.17		0.823	"	"	"	"	"	
Sodium	10.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS8-0.5

9/8/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209177-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B211212	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	5.44			SAR	1	B211206	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.01		0.00500	mmhos/cm	1	B211212	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	5.52		0.0926	mg/kg	5	B211202	09/12/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS8-0.5

9/8/2022 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-08 (Soil)

Table 915 metals by EPA 6020B

Barium	528		9.26	mg/kg	5	B211202	09/12/2022	09/15/2022	
Cadmium	0.269		0.0926	"	"	"	"	"	
Copper	11.3		9.26	"	"	"	"	"	
Lead	10.6		9.26	"	"	"	"	"	
Nickel	9.58		9.26	"	"	"	"	09/14/2022	
Selenium	0.252		0.0926	"	"	"	"	09/15/2022	
Silver	ND		0.0926	"	"	"	"	"	
Zinc	ND		92.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637536	09/08/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS9-0.5

9/8/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.610		0.0992	mg/L	1	B211209	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS9-0.5

9/8/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.7 %		70-130			B21100 5	09/10/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	91.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.16		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.99		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS9-0.5

9/8/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209177-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B211212	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	1.47			SAR	1	B211206	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.647		0.00500	mmhos/cm	1	B211212	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.35		0.0929	mg/kg	5	B211302	09/13/2022	09/15/2022	
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 Project Number: 222791
 Project: Taproot-BMV

SS9-0.5

9/8/2022 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-09 (Soil)

Table 915 metals by EPA 6020B

Barium	48.1		9.29	mg/kg	5	B211302	09/13/2022	09/15/2022	
Cadmium	0.0938		0.0929	"	"	"	"	"	
Copper	ND		9.29	"	"	"	"	"	
Lead	ND		9.29	"	"	"	"	"	
Nickel	ND		9.29	"	"	"	"	09/16/2022	
Selenium	ND		0.0929	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	09/15/2022	
Zinc	ND		92.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L637537	09/08/2022	09/15/2022	
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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

BS1-0.5

9/8/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.453		0.0992	mg/L	1	B211209	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	99.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211005	09/10/2022	09/17/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.7 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

BS1-0.5

9/8/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.2 %		70-130			B21100 5	09/10/2022	09/17/2022	
Surrogate: 4-Bromofluorobenzene	92.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.47		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

BS1-0.5

9/8/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B211212	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	0.0793			SAR	1	B211206	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.264		0.00500	mmhos/cm	1	B211212	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	8.41		0.0940	mg/kg	5	B211302	09/13/2022	09/15/2022	
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 Project Number: 222791
 Project: Taproot-BMV

BS1-0.5
9/8/2022 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-10 (Soil)

Table 915 metals by EPA 6020B

Barium	463		9.40	mg/kg	5	B211302	09/13/2022	09/15/2022	
Cadmium	0.356		0.0940	"	"	"	"	"	
Copper	16.7		9.40	"	"	"	"	"	
Lead	17.3		9.40	"	"	"	"	"	
Nickel	14.7		9.40	"	"	"	"	09/16/2022	
Selenium	0.301		0.0940	"	"	"	"	"	
Silver	ND		0.0940	"	"	"	"	09/15/2022	
Zinc	ND		94.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L637537	09/08/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

BS2-0.5

9/8/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.487		0.0994	mg/L	1	B211209	09/12/2022	09/13/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211220	09/12/2022	09/20/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00394		0.00200	mg/kg	1	B211005	09/10/2022	09/17/2022	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	90.4 %		70-130			"	"	"	

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

BS2-0.5

9/8/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			B21100 5	09/10/2022	09/17/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	2.31		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

BS2-0.5

9/8/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209177-11 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L637248	09/14/2022	09/14/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	57.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	68.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B211212	09/12/2022	09/13/2022	
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SAR by 20B Saturated Paste

SAR	0.0957			SAR	1	B211206	09/12/2022	09/13/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.270		0.00500	mmhos/cm	1	B211212	09/12/2022	09/13/2022	
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Table 915 metals by EPA 6020B

Arsenic	6.45		0.0940	mg/kg	5	B211302	09/13/2022	09/15/2022	
Barium	596		9.40	"	"	"	"	"	

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Briggsdale CO 80204

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Project Number: 222791

Project: Taproot-BMV

BS2-0.5

9/8/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209177-11 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.392		0.0940	mg/kg	5	B211302	09/13/2022	09/15/2022	
Copper	17.5		9.40	"	"	"	"	"	
Lead	20.2		9.40	"	"	"	"	"	
Nickel	15.7		9.40	"	"	"	"	09/16/2022	
Selenium	0.234		0.0940	"	"	"	"	"	
Silver	ND		0.0940	"	"	"	"	09/15/2022	
Zinc	ND		94.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L637537	09/08/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211005 - EPA 5030 (soil)

Blank (B211005-BLK1)

Prepared: 09/10/2022 Analyzed: 09/15/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	88.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.7		70-130			

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Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211005 - EPA 5030 (soil)

LCS (B211005-BS1)

Prepared: 09/10/2022 Analyzed: 09/15/2022

1,2,4-Trimethylbenzene	0.0922	0.00200	mg/kg	0.100		92.2	70-130			
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100		92.8	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0942	0.00200	"	0.100		94.2	70-130			
Naphthalene	0.0831	0.00380	"	0.100		83.1	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
o-Xylene	0.0926	0.00200	"	0.100		92.6	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211005 - EPA 5030 (soil)

Matrix Spike (B211005-MS1)	Source: Y209175-01			Prepared: 09/10/2022 Analyzed: 09/15/2022						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130			
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130			
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
Naphthalene	0.0744	0.00380	"	0.100	0.000760	73.7	70-130			
Toluene	0.0864	0.00200	"	0.100	ND	86.4	70-130			
o-Xylene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
m,p-Xylene	0.182	0.00400	"	0.200	ND	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211005 - EPA 5030 (soil)

Matrix Spike Dup (B211005-MSD1)	Source: Y209175-01			Prepared: 09/10/2022 Analyzed: 09/15/2022						
1,2,4-Trimethylbenzene	0.0869	0.00200	mg/kg	0.100	ND	86.9	70-130	2.07	20	
1,3,5-Trimethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	2.23	20	
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	1.53	20	
Ethylbenzene	0.0864	0.00200	"	0.100	ND	86.4	70-130	4.35	20	
Naphthalene	0.0787	0.00380	"	0.100	0.000760	78.0	70-130	5.64	20	
Toluene	0.0856	0.00200	"	0.100	ND	85.6	70-130	0.977	20	
o-Xylene	0.0863	0.00200	"	0.100	ND	86.3	70-130	3.78	20	
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130	4.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211220 - EPA 3580										
Blank (B211220-BLK1)										
					Prepared: 09/12/2022 Analyzed: 09/20/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.9	50-150			

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Project Number: 222791

Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211220 - EPA 3580

LCS (B211220-BS1)

Prepared: 09/12/2022 Analyzed: 09/20/2022

Diesel (C10-C28)	806	50.0	mg/kg	1000		80.6	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Project Number: 222791

Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211220 - EPA 3580

Matrix Spike (B211220-MS1)	Source: Y209175-01			Prepared: 09/12/2022 Analyzed: 09/20/2022						
Diesel (C10-C28)	816	50.0	mg/kg	1000	ND	81.6	70-130			
Residual Range Organics (C28-C40)	867	200	"	1000	ND	86.7	70-130			
Surrogate: o-Terphenyl	41		"	49.8		83.1	50-150			

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Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211220 - EPA 3580

Matrix Spike Dup (B211220-MSD1)	Source: Y209175-01			Prepared: 09/12/2022 Analyzed: 09/20/2022						
Diesel (C10-C28)	839	50.0	mg/kg	1000	ND	83.9	70-130	2.72	35	
Residual Range Organics (C28-C40)	901	200	"	1000	ND	90.1	70-130	3.82	35	
Surrogate: o-Terphenyl	43		"	49.8		86.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1202 - Default Prep Metals

Blank (B2I1202-BLK1)

Prepared: 09/12/2022 Analyzed: 09/14/2022

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B2I1202-BS1)

Prepared: 09/12/2022 Analyzed: 09/14/2022

Arsenic	0.0502	0.000100	mg/kg	0.0500		100	80-120			
Barium	5.11	0.0100	"	5.00		102	80-120			
Cadmium	0.0525	0.000100	"	0.0500		105	80-120			
Copper	0.521	0.0100	"	0.500		104	80-120			
Lead	0.0520	0.0100	"	0.0500		104	80-120			
Nickel	0.0513	0.0100	"	0.0500		103	80-120			
Selenium	0.0477	0.000100	"	0.0500		95.4	80-120			
Silver	0.0535	0.000100	"	0.0500		107	80-120			
Zinc	0.536	0.100	"	0.500		107	80-120			

Matrix Spike (B2I1202-MS1)

Source: Y209166-05

Prepared: 09/12/2022 Analyzed: 09/14/2022

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Project Number: 222791

Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211202 - Default Prep Metals

Matrix Spike (B211202-MS1)		Source: Y209166-05			Prepared: 09/12/2022 Analyzed: 09/14/2022					
Arsenic	17.3	0.0864	mg/kg	8.64	3.18	163	75-125			QM-07
Barium	1120	8.64	"	864	78.8	121	75-125			
Cadmium	9.76	0.0864	"	8.64	0.169	111	75-125			
Copper	97.0	8.64	"	86.4	5.16	106	75-125			
Lead	15.2	8.64	"	8.64	5.12	116	75-125			
Nickel	13.4	8.64	"	8.64	4.42	104	75-125			
Selenium	8.12	0.0864	"	8.64	0.100	92.9	75-125			
Silver	10.1	0.0864	"	8.64	0.110	115	75-125			
Zinc	118	86.4	"	86.4	20.2	113	75-125			

Matrix Spike Dup (B211202-MSD1)		Source: Y209166-05			Prepared: 09/12/2022 Analyzed: 09/14/2022					
Arsenic	15.9	0.0884	mg/kg	8.84	3.18	144	75-125	8.04	20	QM-07
Barium	1130	8.84	"	884	78.8	118	75-125	0.295	20	
Cadmium	9.48	0.0884	"	8.84	0.169	105	75-125	2.87	20	
Copper	91.7	8.84	"	88.4	5.16	97.9	75-125	5.58	20	
Lead	13.5	8.84	"	8.84	5.12	95.2	75-125	11.2	20	
Nickel	13.5	8.84	"	8.84	4.42	103	75-125	0.887	20	
Selenium	8.17	0.0884	"	8.84	0.100	91.3	75-125	0.637	20	
Silver	9.74	0.0884	"	8.84	0.110	109	75-125	3.45	20	
Zinc	113	88.4	"	88.4	20.2	105	75-125	3.86	20	

Batch B211302 - Default Prep Metals

Blank (B211302-BLK1)		Prepared: 09/13/2022 Analyzed: 09/16/2022								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1302 - Default Prep Metals

Blank (B2I1302-BLK1)

Prepared: 09/13/2022 Analyzed: 09/15/2022

Copper	ND	0.0100	mg/kg							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B2I1302-BS1)

Prepared: 09/13/2022 Analyzed: 09/15/2022

Arsenic	0.0529	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.19	0.0100	"	5.00		104	80-120			
Cadmium	0.0527	0.000100	"	0.0500		105	80-120			
Copper	0.536	0.0100	"	0.500		107	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0552	0.0100	"	0.0500		110	80-120			
Selenium	0.0504	0.000100	"	0.0500		101	80-120			
Silver	0.0494	0.000100	"	0.0500		98.8	80-120			
Zinc	0.531	0.100	"	0.500		106	80-120			

Matrix Spike (B2I1302-MS1)

Source: Y209177-09

Prepared: 09/13/2022 Analyzed: 09/15/2022

Arsenic	15.6	0.0929	mg/kg	9.29	2.35	142	75-125			QM-07
Barium	1300	9.29	"	929	48.1	134	75-125			QM-07
Cadmium	10.1	0.0929	"	9.29	0.0938	108	75-125			
Copper	105	9.29	"	92.9	4.16	109	75-125			
Lead	21.3	9.29	"	9.29	4.71	179	75-125			QM-07
Nickel	21.8	9.29	"	9.29	4.29	189	75-125			
Selenium	9.74	0.0929	"	9.29	0.0715	104	75-125			
Silver	8.94	0.0929	"	9.29	0.0177	96.0	75-125			

Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211302 - Default Prep Metals

Matrix Spike (B211302-MS1)		Source: Y209177-09			Prepared: 09/13/2022 Analyzed: 09/15/2022					
Zinc	137	92.9	mg/kg	92.9	19.5	127	75-125			QM-07
Matrix Spike Dup (B211302-MSD1)		Source: Y209177-09			Prepared: 09/13/2022 Analyzed: 09/15/2022					
Arsenic	15.2	0.0849	mg/kg	8.49	2.35	151	75-125	2.77	20	QM-07
Barium	1340	8.49	"	849	48.1	153	75-125	3.43	20	QM-07
Cadmium	9.78	0.0849	"	8.49	0.0938	114	75-125	3.60	20	
Copper	101	8.49	"	84.9	4.16	114	75-125	3.61	20	
Lead	29.5	8.49	"	8.49	4.71	292	75-125	32.3	20	QM-07, QR-DUP
Nickel	20.8	8.49	"	8.49	4.29	195	75-125	4.62	20	
Selenium	8.78	0.0849	"	8.49	0.0715	103	75-125	10.4	20	
Silver	8.62	0.0849	"	8.49	0.0177	101	75-125	3.64	20	
Zinc	135	84.9	"	84.9	19.5	136	75-125	1.72	20	QM-07

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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1205 - Default Prep Metals

Blank (B2I1205-BLK1)

Prepared: 09/12/2022 Analyzed: 09/13/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B2I1205-DUP1)

Source: Y209155-04

Prepared: 09/12/2022 Analyzed: 09/13/2022

SAR	0.00		SAR		0.215			200	200	
Calcium PPM	48.3	10.0	mg/L		46.2			4.45	50	
Magnesium PPM	9.63	10.0	"		10.8			11.9	50	
Sodium PPM	5.80	10.0	"		6.26			7.62	50	

Batch B2I1206 - Default Prep Metals

Blank (B2I1206-BLK1)

Prepared: 09/12/2022 Analyzed: 09/13/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B2I1206-DUP1)

Source: Y209177-07

Prepared: 09/12/2022 Analyzed: 09/13/2022

Calcium PPM	530	10.0	mg/L		529			0.0674	50	
SAR	0.00		SAR		7.47			200	200	
Magnesium PPM	29.1	10.0	mg/L		28.9			0.452	50	
Sodium PPM	582	10.0	"		652			11.3	50	

Batch B2I1208 - Default Prep Metals

Blank (B2I1208-BLK1)

Prepared: 09/12/2022 Analyzed: 09/13/2022

Origins Laboratory, Inc.



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Environmental Works
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 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1208 - Default Prep Metals										
Blank (B2I1208-BLK1)					Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	ND	0.100	mg/L							
Duplicate (B2I1208-DUP1)		Source: Y209156-03			Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	0.255	0.100	mg/L		0.257			0.883	50	
Batch B2I1209 - Default Prep Metals										
Blank (B2I1209-BLK1)					Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	ND	0.100	mg/L							
Duplicate (B2I1209-DUP1)		Source: Y209177-07			Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	1.32	0.101	mg/L		1.54			15.3	50	

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Environmental Works
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Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211211 - NO PREP

Blank (B211211-BLK1)

Prepared: 09/12/2022 Analyzed: 09/13/2022

pH 0.00 pH Units
 Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B211211-DUP1)

Source: Y209155-04

Prepared: 09/12/2022 Analyzed: 09/13/2022

pH 8.05 pH Units 8.07 0.248 25
 Specific Conductance (EC) 0.413 0.00500 mmhos/cm 0.413 0.121 25

Batch B211212 - NO PREP

Blank (B211212-BLK1)

Prepared: 09/12/2022 Analyzed: 09/13/2022

Specific Conductance (EC) ND 0.00500 mmhos/cm
 pH 0.00 pH Units

Duplicate (B211212-DUP1)

Source: Y209177-07

Prepared: 09/12/2022 Analyzed: 09/13/2022

Specific Conductance (EC) 5.56 0.00500 mmhos/cm 6.12 9.70 25
 pH 7.79 pH Units 7.77 0.257 25

Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637248 - 3550B

MSD (L 98392-MSD-L637248)		Source: Y209177-10			Prepared: 09/14/2022 Analyzed: 09/14/2022					
Anthracene	0.109	0.00335	mg/Kg	0.166	<0.00167	65.6	30-130	9.6	30	
Benzo(a)anthracene	0.0932	0.00335	"	0.166	<0.00247	56.1	30-130	12.8	30	
Benzo(a)pyrene	0.112	0.00335	"	0.166	<0.00234	67.4	30-130	10.1	30	
Benzo(b)fluoranthene	0.056	0.00335	"	0.166	<0.00293	33.7	30-130	18.7	30	
Benzo(k)fluoranthene	0.124	0.00335	"	0.166	<0.00219	74.6	30-130	4.7	30	
Chrysene	0.13	0.00335	"	0.166	<0.00312	78.3	30-130	5.9	30	
Dibenz(a,h)anthracene	0.15	0.00335	"	0.166	<0.00307	90.3	30-130	4.5	30	
Acenaphthene	0.0972	0.00335	"	0.166	<0.00152	58.5	30-130	5.7	30	
Fluorene	0.0977	0.00335	"	0.166	<0.00143	58.8	30-130	5.2	30	
Fluoranthene	0.105	0.00335	"	0.166	<0.00197	63.2	30-130	7.3	30	
2-Methylnaphthalene	0.0912	0.00335	"	0.166	<0.00323	54.9	30-130	6.3	30	
1-Methylnaphthalene	0.094	0.00335	"	0.166	<0.00182	56.6	30-130	6.1	30	
Naphthalene	0.0977	0.00335	"	0.166	<0.00242	58.8	30-130	6.2	30	
Pyrene	0.106	0.00335	"	0.166	<0.00322	63.8	30-130	8.1	30	
Indeno(1,2,3-cd)pyrene	0.0894	0.00335	"	0.166	<0.00314	53.8	30-130	7.1	30	
Surrogate: 4-Terphenyl-d14	64.3		"	0.331	232	64.3	33-122			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.331	186	53.4	33-115			
Surrogate: Nitrobenzene-d5	56.7		"	0.331	202	56.7	29-110			

MS (L 98392-MS-L637248)		Source: Y209177-10			Prepared: 09/14/2022 Analyzed: 09/14/2022					
Pyrene	0.115	0.00335	mg/Kg	0.166	<0.00322	69.2	30-130			
Benzo(a)anthracene	0.106	0.00335	"	0.166	<0.00247	63.8	30-130			
1-Methylnaphthalene	0.1	0.00335	"	0.166	<0.00182	60.2	30-130			
2-Methylnaphthalene	0.0972	0.00335	"	0.166	<0.00323	58.5	30-130			
Anthracene	0.12	0.00335	"	0.166	<0.00167	72.2	30-130			
Indeno(1,2,3-cd)pyrene	0.096	0.00335	"	0.166	<0.00314	57.8	30-130			
Benzo(a)pyrene	0.124	0.00335	"	0.166	<0.00234	74.6	30-130			

Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637248 - 3550B

MS (L 98392-MS-L637248)		Source: Y209177-10			Prepared: 09/14/2022 Analyzed: 09/14/2022					
Acenaphthene	0.103	0.00335	mg/Kg	0.166	<0.00152	62	30-130			
Fluorene	0.103	0.00335	"	0.166	<0.00143	62	30-130			
Benzo(b)fluoranthene	0.0676	0.00335	"	0.166	<0.00293	40.7	30-130			
Fluoranthene	0.113	0.00335	"	0.166	<0.00197	68	30-130			
Naphthalene	0.104	0.00335	"	0.166	<0.00242	62.6	30-130			
Dibenz(a,h)anthracene	0.157	0.00335	"	0.166	<0.00307	94.5	30-130			
Benzo(k)fluoranthene	0.13	0.00335	"	0.166	<0.00219	78.3	30-130			
Chrysene	0.138	0.00335	"	0.166	<0.00312	83.1	30-130			
Surrogate: 2-Fluorobiphenyl	59.5		"	0.331	186	59.5	33-115			
Surrogate: 4-Terphenyl-d14	73.1		"	0.331	232	73.1	33-122			
Surrogate: Nitrobenzene-d5	61.6		"	0.331	202	61.6	29-110			

LCS (LCS-L637248)		Prepared: 09/14/2022 Analyzed: 09/14/2022								
Fluoranthene	0.101	0.00067	mg/Kg	0.167		60.4	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Naphthalene	0.0899	0.00067	"	0.167		53.8	30-130			
Fluorene	0.093	0.00067	"	0.167		55.6	30-130			
Dibenz(a,h)anthracene	0.154	0.00067	"	0.167		92.2	30-130			
Acenaphthene	0.0905	0.00067	"	0.167		54.1	30-130			
1-Methylnaphthalene	0.0875	0.00067	"	0.167		52.3	30-130			
2-Methylnaphthalene	0.0866	0.00067	"	0.167		51.8	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Chrysene	0.108	0.00067	"	0.167		64.6	30-130			
Anthracene	0.0994	0.00067	"	0.167		59.5	30-130			
Benzo(a)anthracene	0.1	0.00067	"	0.167		59.8	30-130			
Benzo(a)pyrene	0.108	0.00067	"	0.167		64.6	30-130			
Benzo(b)fluoranthene	0.0799	0.00067	"	0.167		47.8	30-130			

Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637248 - 3550B

LCS (LCS-L637248)

Prepared: 09/14/2022 Analyzed: 09/14/2022

Benzo(k)fluoranthene	0.109	0.00067	mg/Kg	0.167		65.2	30-130			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333		55.5	33-115			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333		70.5	33-122			

LRB (LRB-L637248)

Prepared: 09/14/2022 Analyzed: 09/14/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			

Origins Laboratory, Inc.



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Environmental Works
 AP@environmentalworks.com
 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L637537 -										
DUP (L 98392-DUP)		Source: Y209177-10			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98392-MS)		Source: Y209177-10			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	32.7	2.5	mg/Kg	39.8	< 0.249	82	75-125			
MSD (L 98392-MSD)		Source: Y209177-10			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	529	51.1	mg/Kg	672	<24.9	79	75-125			
LCS (LCS)					Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	7.26	0.5	mg/Kg	8		91	75-125			
LRB (LRB)					Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Environmental Works
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 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L637536 -										
DUP (L 98385-DUP)		Source: Y209177-03			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98385-MS)		Source: Y209177-03			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	24.9	2.5	mg/Kg	39.7	< 0.244	63	75-125			*
MSD (L 98385-MSD)		Source: Y209177-03			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	566	50.6	mg/Kg	645	<24.7	88	75-125			

Origins Laboratory, Inc.



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Environmental Works
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Briggsdale CO 80204

Adam Kubat
Project Number: 222791
Project: Taproot-BMV

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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October 03, 2022

Environmental Works

Adam Kubat

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Briggsdale CO 80204

Project Name - Taproot-BMV

Project Number - 222791

Attached are your analytical results for Taproot-BMV received by Origins Laboratory, Inc. September 13, 2022. This project is associated with Origins project number Y209228-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW1-6	Y209228-01	Soil	September 12, 2022 14:05	09/13/2022 09:13
SW2-6	Y209228-02	Soil	September 12, 2022 14:15	09/13/2022 09:13
SW5-6	Y209228-03	Soil	September 12, 2022 13:30	09/13/2022 09:13
SW4-7.5	Y209228-04	Soil	September 12, 2022 13:45	09/13/2022 09:13
SW3-6	Y209228-05	Soil	September 12, 2022 14:20	09/13/2022 09:13
FS2-7.5	Y209228-06	Soil	September 12, 2022 13:20	09/13/2022 09:13
FS1-9	Y209228-07	Soil	September 12, 2022 14:00	09/13/2022 09:13
SW6-6	Y209228-08	Soil	September 12, 2022 14:10	09/13/2022 09:13
SS10- 0.5	Y209228-09	Soil	September 12, 2022 12:50	09/13/2022 09:13
SS11-0.5	Y209228-10	Soil	September 12, 2022 13:05	09/13/2022 09:13

Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV



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222791 page 1 of 1

Client: Environmental Works Inc.
 Address: 1301 Cowles Rd, Louisville
 Telephone Number: 507-475-2825
 Email Address: akubat@environmentalworks.com

Project Manager: Adam Kubat
 Project Name: Taproot - BMV
 Project Number: 222791-C1
 Samples Collected By: A. Kubat

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Table 915	
SW1-6	9/12	14:05	2	X				X					1
SW2-6	9/12	14:15		X				X					2
SW5-6	9/12	13:30		X				X					3
SW4-6 SW4-7.5	9/12	13:45		X				X					4
SW3-6	9/12	14:20		X				X					5
FS2-7.5	9/12	13:20		X				X					6
FS1-9	9/12	14:00		X				X					7
SW6-6	9/12	14:10		X				X					8
SS10-0.5	9/12	12:50		X				X					9
SS11-0.5	9/12	13:05		X				X					10
Relinquished By: <i>[Signature]</i>	Date: 9-13-22	Time: 9:12 am						Received By: BM	Date: 9-13-22	Time: 4:13		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished By:	Date:	Time:						Received By:	Date:	Time:			

1725 Elk Place Denver, CO 80211 Phone: 303.433.1322

Date Results Needed

Temp Received: 7.8

Origins Laboratory, Inc.

[Signature]

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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

Origins Laboratory

Sample Receipt Checklist

F-012207-01-R1
Effective Date: 01/09/12

Origins Work Order: Y209228

Client: Environmental Works, Inc
Client Project ID: Taproot - BMV

Checklist Completed by: DE

Shipped Via: HP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 09/13/2022

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 7.8 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		<u>See</u>
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JK (Project Manager)

9-14-22
Date/Time Reviewed

Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW1-6

9/12/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.04		0.0990	mg/L	1	B211303	09/13/2022	09/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/15/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW1-6

9/12/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.0 %		70-130			B21151 4	09/15/2022	09/15/2022	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.3		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	2.84		0.823	"	"	"	"	"	
Sodium	26.0		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000631	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	J
2-Methylnaphthalene	0.000707	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW1-6

9/12/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	85.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.96			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	9.78			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.39		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	3.60		0.0951	mg/kg	5	B211309	09/13/2022	09/15/2022	
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Environmental Works
 AP@environmentalworks.com
 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SW1-6

9/12/2022 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-01 (Soil)

Table 915 metals by EPA 6020B

Barium	211		9.51	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.249		0.0951	"	"	"	"	"	
Copper	ND		9.51	"	"	"	"	"	U
Lead	17.8		9.51	"	"	"	"	"	
Nickel	ND		9.51	"	"	"	"	"	U
Selenium	0.235		0.0951	"	"	"	"	"	
Silver	ND		0.0951	"	"	"	"	"	U
Zinc	ND		95.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L638537	09/12/2022	09/20/2022	
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Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW2-6

9/12/2022 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.940		0.100	mg/L	1	B211303	09/13/2022	09/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW2-6

9/12/2022 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.0 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	13.8		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	3.30		0.823	"	"	"	"	"	
Sodium	16.8		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW2-6

9/12/2022 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.94			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	5.73			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.26		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.80		0.0939	mg/kg	5	B211309	09/13/2022	09/15/2022	
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Environmental Works
 AP@environmentalworks.com
 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SW2-6

9/12/2022 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-02 (Soil)

Table 915 metals by EPA 6020B

Barium	223		9.39	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.599		0.0939	"	"	"	"	"	
Copper	ND		9.39	"	"	"	"	"	U
Lead	12.2		9.39	"	"	"	"	"	
Nickel	ND		9.39	"	"	"	"	"	U
Selenium	0.181		0.0939	"	"	"	"	"	
Silver	ND		0.0939	"	"	"	"	"	U
Zinc	ND		93.9	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L638537	09/12/2022	09/20/2022	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW5-6

9/12/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-03 (Soil)

Boron (DTPA Sorbitol)

Boron	2.43		0.101	mg/L	1	B211303	09/13/2022	09/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW5-6

9/12/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.3 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	96.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	21.1		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	5.42		0.823	"	"	"	"	"	
Sodium	38.8		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW5-6

9/12/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	10.7			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.98		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.33		0.0883	mg/kg	5	B211309	09/13/2022	09/15/2022	
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Origins Laboratory, Inc.



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Environmental Works
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 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SW5-6

9/12/2022 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-03 (Soil)

Table 915 metals by EPA 6020B

Barium	102		8.83	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.216		0.0883	"	"	"	"	"	
Copper	9.47		8.83	"	"	"	"	"	
Lead	12.7		8.83	"	"	"	"	"	
Nickel	ND		8.83	"	"	"	"	"	U
Selenium	0.173		0.0883	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	U
Zinc	ND		88.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L638537	09/12/2022	09/20/2022	
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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW4-7.5

9/12/2022 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.529		0.100	mg/L	1	B211303	09/13/2022	09/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW4-7.5

9/12/2022 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.39		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	2.46		0.823	"	"	"	"	"	
Sodium	15.0		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000563	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SW4-7.5

9/12/2022 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209228-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.96			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	6.43			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.84		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	1.99		0.0867	mg/kg	5	B211309	09/13/2022	09/15/2022	
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Briggsdale CO 80204

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Project Number: 222791

Project: Taproot-BMV

SW4-7.5

9/12/2022 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-04 (Soil)

Table 915 metals by EPA 6020B

Barium	137		8.67	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.211		0.0867	"	"	"	"	"	
Copper	10.9		8.67	"	"	"	"	"	
Lead	12.0		8.67	"	"	"	"	"	
Nickel	13.1		8.67	"	"	"	"	"	
Selenium	0.136		0.0867	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	U
Zinc	ND		86.7	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L638537	09/12/2022	09/20/2022	
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Project Number: 222791

Project: Taproot-BMV

SW3-6

9/12/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-05 (Soil)

Boron (DTPA Sorbitol)

Boron	1.37		0.0998	mg/L	1	B211303	09/13/2022	09/14/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	39.9		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0187		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	
1,3,5-Trimethylbenzene	0.00434		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.382		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SW3-6

9/12/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.2 %		70-130			B21151 4	09/15/2022	09/16/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	15.0		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	3.72		0.823	"	"	"	"	"	
Sodium	54.6		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.56	0.00364	0.0067	mg/Kg	10	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	0.455	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.0454	0.00304	0.0067	"	"	"	"	"	
Anthracene	0.0191	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	0.0073	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0081	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	0.0873	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.217	0.00286	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SW3-6

9/12/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-05 (Soil)

PAH by 8270D SIM

Naphthalene	0.0703	0.00484	0.0067	mg/Kg	10	L637611	09/15/2022	09/15/2022	
Pyrene	0.0506	0.00643	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	92.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	17.9			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.34		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.17		0.0801	mg/kg	5	B211309	09/13/2022	09/15/2022	
Barium	264		8.01	"	"	"	"	"	
Cadmium	0.289		0.0801	"	"	"	"	"	

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Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SW3-6

9/12/2022 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-05 (Soil)

Table 915 metals by EPA 6020B

Copper	10.9		8.01	mg/kg	5	B211309	09/13/2022	09/15/2022	
Lead	12.6		8.01	"	"	"	"	"	
Nickel	10.3		8.01	"	"	"	"	09/19/2022	
Selenium	0.146		0.0801	"	"	"	"	09/15/2022	
Silver	ND		0.0801	"	"	"	"	"	U
Zinc	ND		80.1	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L638538	09/12/2022	09/20/2022	
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Adam Kubat
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 Project: Taproot-BMV

FS2-7.5

9/12/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.29		0.0984	mg/L	1	B211406	09/14/2022	09/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Project Number: 222791

Project: Taproot-BMV

FS2-7.5

9/12/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.8		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	5.21		0.823	"	"	"	"	"	
Sodium	33.6		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000652	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

FS2-7.5

9/12/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	9.69			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.21		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	8.69		0.0890	mg/kg	5	B211309	09/13/2022	09/15/2022	
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 Project: Taproot-BMV

FS2-7.5

9/12/2022 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-06 (Soil)

Table 915 metals by EPA 6020B

Barium	63.2		8.90	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.611		0.0890	"	"	"	"	"	
Copper	11.3		8.90	"	"	"	"	"	
Lead	11.3		8.90	"	"	"	"	"	
Nickel	ND		8.90	"	"	"	"	09/19/2022	U
Selenium	0.544		0.0890	"	"	"	"	09/15/2022	
Silver	ND		0.0890	"	"	"	"	"	U
Zinc	ND		89.0	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L638538	09/12/2022	09/20/2022	
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Project Number: 222791

Project: Taproot-BMV

FS1-9

9/12/2022 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.708		0.100	mg/L	1	B211406	09/14/2022	09/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	205		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %		70-130			"	"	"	

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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

FS1-9

9/12/2022 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.9 %		70-130			B21151 4	09/15/2022	09/16/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	13.8		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	3.80		0.823	"	"	"	"	"	
Sodium	19.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.271	0.00182	0.00335	mg/Kg	5	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	0.149	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	0.0126	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.0049	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00258	0.00247	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0158	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.0478	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

FS1-9

9/12/2022 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-07 (Soil)

PAH by 8270D SIM

Naphthalene	0.0143	0.00242	0.00335	mg/Kg	5	L637611	09/15/2022	09/15/2022	
Pyrene	0.00735	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	77.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	6.48			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.97		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	6.15		0.0917	mg/kg	5	B211309	09/13/2022	09/15/2022	
Barium	227		9.17	"	"	"	"	"	
Cadmium	0.293		0.0917	"	"	"	"	"	

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 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

FS1-9

9/12/2022 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-07 (Soil)

Table 915 metals by EPA 6020B

Copper	10.7		9.17	mg/kg	5	B211309	09/13/2022	09/15/2022	
Lead	11.7		9.17	"	"	"	"	"	
Nickel	10.3		9.17	"	"	"	"	09/19/2022	
Selenium	0.264		0.0917	"	"	"	"	09/15/2022	
Silver	ND		0.0917	"	"	"	"	"	U
Zinc	ND		91.7	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L638538	09/12/2022	09/20/2022	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW6-6

9/12/2022 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-08 (Soil)

Boron (DTPA Sorbitol)

Boron	1.14		0.0997	mg/L	1	B211406	09/14/2022	09/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW6-6

9/12/2022 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.9 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	95.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	25.4		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	6.17		0.823	"	"	"	"	"	
Sodium	26.0		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SW6-6

9/12/2022 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209228-08 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.91			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	6.54			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.83		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.24		0.0866	mg/kg	5	B211309	09/13/2022	09/15/2022	
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Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SW6-6

9/12/2022 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-08 (Soil)

Table 915 metals by EPA 6020B

Barium	110		8.66	mg/kg	5	B211309	09/13/2022	09/15/2022	
Cadmium	0.461		0.0866	"	"	"	"	"	
Copper	9.34		8.66	"	"	"	"	"	
Lead	13.0		8.66	"	"	"	"	"	
Nickel	ND		8.66	"	"	"	"	09/19/2022	U
Selenium	0.221		0.0866	"	"	"	"	09/15/2022	
Silver	ND		0.0866	"	"	"	"	"	U
Zinc	ND		86.6	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L638538	09/12/2022	09/20/2022	
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Environmental Works
 AP@environmentalworks.com
 Briggsdale CO 80204

Adam Kubat
 Project Number: 222791
 Project: Taproot-BMV

SS10- 0.5
9/12/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.989		0.0993	mg/L	1	B211406	09/14/2022	09/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS10- 0.5

9/12/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.3 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	97.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	38.0		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	7.17		0.823	"	"	"	"	"	
Sodium	31.7		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00131	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS10- 0.5

9/12/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y209228-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	6.66			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.28		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	4.98		0.0939	mg/kg	5	B211417	09/14/2022	09/15/2022	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS10- 0.5

9/12/2022 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-09 (Soil)

Table 915 metals by EPA 6020B

Barium	343		9.39	mg/kg	5	B211417	09/14/2022	09/15/2022	
Cadmium	0.399		0.0939	"	"	"	"	"	
Copper	13.5		9.39	"	"	"	"	"	
Lead	12.4		9.39	"	"	"	"	"	
Nickel	11.1		9.39	"	"	"	"	"	
Selenium	0.207		0.0939	"	"	"	"	"	
Silver	0.156		0.0939	"	"	"	"	"	
Zinc	ND		93.9	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	1.22	2.51	mg/Kg	5	L638538	09/12/2022	09/20/2022	
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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS11-0.5

9/12/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-10 (Soil)

Boron (DTPA Sorbitol)

Boron	11.4		0.0986	mg/L	1	B211406	09/14/2022	09/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B211611	09/16/2022	09/22/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B211514	09/15/2022	09/16/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

SS11-0.5

9/12/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.3 %		70-130			B21151 4	09/15/2022	09/16/2022	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	8.86		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	3.72		0.823	"	"	"	"	"	
Sodium	87.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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Project Number: 222791

Project: Taproot-BMV

SS11-0.5

9/12/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y209228-10 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L637611	09/15/2022	09/15/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B211311	09/13/2022	09/14/2022	
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SAR by 20B Saturated Paste

SAR	34.8			SAR	1	B211310	09/13/2022	09/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	10.5		0.00500	mmhos/cm	1	B211311	09/13/2022	09/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	5.08		0.0898	mg/kg	5	B211417	09/14/2022	09/15/2022	
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Project Number: 222791

Project: Taproot-BMV

SS11-0.5

9/12/2022 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y209228-10 (Soil)

Table 915 metals by EPA 6020B

Barium	366		8.98	mg/kg	5	B211417	09/14/2022	09/15/2022	
Cadmium	0.276		0.0898	"	"	"	"	"	
Copper	13.3		8.98	"	"	"	"	"	
Lead	15.4		8.98	"	"	"	"	"	
Nickel	11.7		8.98	"	"	"	"	"	
Selenium	0.320		0.0898	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	U
Zinc	ND		89.8	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	ND	1.24	2.54	mg/Kg	5	L638538	09/12/2022	09/20/2022	
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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211514 - EPA 5030 (soil)

Blank (B211514-BLK1)

Prepared: 09/15/2022 Analyzed: 09/15/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.2		70-130			

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Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211514 - EPA 5030 (soil)

LCS (B211514-BS1)

Prepared: 09/15/2022 Analyzed: 09/15/2022

1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100		99.9	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0955	0.00380	"	0.100		95.5	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1514 - EPA 5030 (soil)

Matrix Spike (B2I1514-MS1)	Source: Y209228-01			Prepared: 09/15/2022 Analyzed: 09/15/2022						
1,2,4-Trimethylbenzene	0.0883	0.00200	mg/kg	0.100	ND	88.3	70-130			
1,3,5-Trimethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
o-Xylene	0.0922	0.00200	"	0.100	ND	92.2	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Project Number: 222791

Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211514 - EPA 5030 (soil)

Matrix Spike Dup (B211514-MSD1)	Source: Y209228-01			Prepared: 09/15/2022 Analyzed: 09/15/2022						
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130	15.7	20	
1,3,5-Trimethylbenzene	0.0757	0.00200	"	0.100	ND	75.7	70-130	16.3	20	
Benzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	13.1	20	
Ethylbenzene	0.0788	0.00200	"	0.100	ND	78.8	70-130	16.3	20	
Naphthalene	0.0870	0.00380	"	0.100	ND	87.0	70-130	16.3	20	
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130	15.1	20	
o-Xylene	0.0791	0.00200	"	0.100	ND	79.1	70-130	15.4	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.7	70-130	16.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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 Project: Taproot-BMV

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2I1611 - EPA 3580										
Blank (B2I1611-BLK1)										
					Prepared: 09/16/2022 Analyzed: 09/22/2022					
Diesel (C10-C28)	ND	12.5	mg/kg							U
Residual Range Organics (C28-C40)	ND	50.0	"							U
Surrogate: o-Terphenyl	22		"	24.9		86.8	50-150			

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Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1611 - EPA 3580

LCS (B2I1611-BS1)

Prepared: 09/16/2022 Analyzed: 09/22/2022

Diesel (C10-C28)	838	25.0	mg/kg	1000		83.8	70-130			
Residual Range Organics (C28-C40)	811	100	"	1000		81.1	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.0	50-150			

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Project Number: 222791

Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1611 - EPA 3580

Matrix Spike (B2I1611-MS1)	Source: Y209228-01			Prepared: 09/16/2022 Analyzed: 09/22/2022						
Diesel (C10-C28)	885	25.0	mg/kg	1000	ND	88.5	70-130			
Residual Range Organics (C28-C40)	856	100	"	1000	ND	85.6	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.0	50-150			

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Project Number: 222791

Project: Taproot-BMV

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1611 - EPA 3580

Matrix Spike Dup (B2I1611-MSD1)	Source: Y209228-01			Prepared: 09/16/2022 Analyzed: 09/22/2022						
Diesel (C10-C28)	903	25.0	mg/kg	1000	ND	90.3	70-130	2.07	35	
Residual Range Organics (C28-C40)	838	100	"	1000	ND	83.8	70-130	2.06	35	
Surrogate: o-Terphenyl	41		"	49.8		83.2	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1309 - Default Prep Metals

Blank (B2I1309-BLK1)

Prepared: 09/13/2022 Analyzed: 09/16/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2I1309-BS1)

Prepared: 09/13/2022 Analyzed: 09/15/2022

Arsenic	0.0518	0.000100	mg/kg	0.0500		104	80-120			
Barium	5.02	0.0100	"	5.00		100	80-120			
Cadmium	0.0512	0.000100	"	0.0500		102	80-120			
Copper	0.528	0.0100	"	0.500		106	80-120			
Lead	0.0515	0.0100	"	0.0500		103	80-120			
Nickel	0.0533	0.0100	"	0.0500		107	80-120			
Selenium	0.0491	0.000100	"	0.0500		98.2	80-120			
Silver	0.0480	0.000100	"	0.0500		96.0	80-120			
Zinc	0.520	0.100	"	0.500		104	80-120			

Matrix Spike (B2I1309-MS1)

Source: Y209196-01

Prepared: 09/13/2022 Analyzed: 09/15/2022

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Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1309 - Default Prep Metals

Matrix Spike (B2I1309-MS1)		Source: Y209196-01			Prepared: 09/13/2022 Analyzed: 09/15/2022					
Arsenic	11.6	0.0852	mg/kg	8.52	4.36	84.6	75-125			
Barium	2150	8.52	"	852	1230	108	75-125			
Cadmium	9.25	0.0852	"	8.52	0.111	107	75-125			
Copper	99.6	8.52	"	85.2	9.11	106	75-125			
Lead	12.7	8.52	"	8.52	5.82	80.5	75-125			
Nickel	14.6	8.52	"	8.52	5.75	104	75-125			
Selenium	8.91	0.0852	"	8.52	0.116	103	75-125			
Silver	8.37	0.0852	"	8.52	0.0145	98.1	75-125			
Zinc	108	85.2	"	85.2	25.6	97.0	75-125			

Matrix Spike Dup (B2I1309-MSD1)		Source: Y209196-01			Prepared: 09/13/2022 Analyzed: 09/15/2022					
Arsenic	12.6	0.0885	mg/kg	8.85	4.36	93.2	75-125	8.68	20	
Barium	2400	8.85	"	885	1230	132	75-125	11.0	20	QM-07
Cadmium	9.59	0.0885	"	8.85	0.111	107	75-125	3.65	20	
Copper	101	8.85	"	88.5	9.11	104	75-125	1.60	20	
Lead	14.2	8.85	"	8.85	5.82	94.7	75-125	11.4	20	
Nickel	14.7	8.85	"	8.85	5.75	101	75-125	0.874	20	
Selenium	8.90	0.0885	"	8.85	0.116	99.2	75-125	0.163	20	
Silver	8.67	0.0885	"	8.85	0.0145	97.7	75-125	3.46	20	
Zinc	118	88.5	"	88.5	25.6	104	75-125	8.70	20	

Batch B2I1417 - Default Prep Metals

Blank (B2I1417-BLK1)		Prepared: 09/14/2022 Analyzed: 09/15/2022								
Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U

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Project Number: 222791

Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1417 - Default Prep Metals

Blank (B2I1417-BLK1)

Prepared: 09/14/2022 Analyzed: 09/15/2022

Copper	ND	0.0100	mg/kg							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

LCS (B2I1417-BS1)

Prepared: 09/14/2022 Analyzed: 09/15/2022

Arsenic	0.0514	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.11	0.0100	"	5.00		102	80-120			
Cadmium	0.0505	0.000100	"	0.0500		101	80-120			
Copper	0.500	0.0100	"	0.500		100	80-120			
Lead	0.0501	0.0100	"	0.0500		100	80-120			
Nickel	0.0532	0.0100	"	0.0500		106	80-120			
Selenium	0.0495	0.000100	"	0.0500		99.0	80-120			
Silver	0.0488	0.000100	"	0.0500		97.5	80-120			
Zinc	0.498	0.100	"	0.500		99.7	80-120			

Matrix Spike (B2I1417-MS1)

Source: Y209228-09

Prepared: 09/14/2022 Analyzed: 09/15/2022

Arsenic	15.2	0.0931	mg/kg	9.31	4.98	109	75-125			
Barium	1450	9.31	"	931	343	119	75-125			
Cadmium	10.6	0.0931	"	9.31	0.399	109	75-125			
Lead	21.6	9.31	"	9.31	12.4	98.1	75-125			
Nickel	21.0	9.31	"	9.31	11.1	107	75-125			
Selenium	9.12	0.0931	"	9.31	0.207	95.7	75-125			
Silver	9.88	0.0931	"	9.31	0.156	104	75-125			
Zinc	143	93.1	"	93.1	45.6	105	75-125			

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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 222791

Project: Taproot-BMV

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B211417 - Default Prep Metals

Matrix Spike Dup (B211417-MSD1)	Source: Y209228-09			Prepared: 09/14/2022 Analyzed: 09/15/2022						
Arsenic	13.6	0.0840	mg/kg	8.40	4.98	102	75-125	11.1	20	
Barium	1250	8.40	"	840	343	107	75-125	15.0	20	
Cadmium	8.88	0.0840	"	8.40	0.399	101	75-125	17.2	20	
Copper	88.1	8.40	"	84.0	13.5	88.8	75-125	18.9	20	
Lead	21.8	8.40	"	8.40	12.4	112	75-125	1.35	20	
Nickel	18.5	8.40	"	8.40	11.1	88.6	75-125	12.7	20	
Selenium	7.77	0.0840	"	8.40	0.207	90.0	75-125	16.0	20	
Silver	8.35	0.0840	"	8.40	0.156	97.5	75-125	16.9	20	
Zinc	122	84.0	"	84.0	45.6	90.5	75-125	16.1	20	

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 Project Number: 222791
 Project: Taproot-BMV

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1303 - Default Prep Metals

Blank (B2I1303-BLK1)

Prepared: 09/13/2022 Analyzed: 09/14/2022

Boron ND 0.100 mg/L

Duplicate (B2I1303-DUP1)

Source: Y209197-02

Prepared: 09/13/2022 Analyzed: 09/14/2022

Boron 0.296 0.102 mg/L 0.252 16.1 50

Batch B2I1310 - Default Prep Metals

Blank (B2I1310-BLK1)

Prepared: 09/13/2022 Analyzed: 09/14/2022

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B2I1310-DUP1)

Source: Y209225-01

Prepared: 09/13/2022 Analyzed: 09/14/2022

Calcium PPM 23.7 10.0 mg/L 25.8 8.42 50

SAR 0.00 SAR 0.731 200 200

Magnesium PPM 2.91 10.0 mg/L 3.87 28.2 50

Sodium PPM 9.43 10.0 " 15.0 45.9 50

Batch B2I1406 - Default Prep Metals

Blank (B2I1406-BLK1)

Prepared: 09/14/2022 Analyzed: 09/15/2022

Boron ND 0.100 mg/L

Duplicate (B2I1406-DUP1)

Source: Y209228-06

Prepared: 09/14/2022 Analyzed: 09/15/2022

Boron 1.28 0.0992 mg/L 1.29 1.09 50

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 Project Number: 222791
 Project: Taproot-BMV

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2I1311 - NO PREP

Blank (B2I1311-BLK1)

Prepared: 09/13/2022 Analyzed: 09/14/2022

pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							

Duplicate (B2I1311-DUP1)

Source: Y209225-01

Prepared: 09/13/2022 Analyzed: 09/14/2022

pH	8.20		pH Units		8.25			0.608	25	
Specific Conductance (EC)	0.216	0.00500	mmhos/cm		0.257			17.3	25	

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Project Number: 222791

Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637611 - 3550B

MSD (L 99347-MSD-L637611)		Source: 99347			Prepared: 09/15/2022 Analyzed: 09/15/2022					
Anthracene	0.109	0.00335	mg/Kg	0.164	<0.00167	66.4	30-130	4.4	30	
Benzo(b)fluoranthene	0.0822	0.00335	"	0.164	<0.00293	50.1	30-130	13.6	30	
1-Methylnaphthalene	0.862	0.00335	"	0.164	0.496	223	30-130	8.8	30	*
2-Methylnaphthalene	1.23	0.00335	"	0.164	0.717	313	30-130	11.1	30	*
Acenaphthene	0.109	0.00335	"	0.164	0.00928	60.8	30-130	3.6	30	
Benzo(a)anthracene	0.103	0.00335	"	0.164	<0.00247	62.8	30-130	5.6	30	
Benzo(a)pyrene	0.127	0.00335	"	0.164	<0.00234	77.4	30-130	3.1	30	
Dibenz(a,h)anthracene	0.101	0.00335	"	0.164	<0.00307	61.5	30-130	16.3	30	
Pyrene	0.115	0.00335	"	0.164	<0.00322	70.1	30-130	3.4	30	
Naphthalene	0.533	0.00335	"	0.164	0.204	201	30-130	18.4	30	*
Benzo(k)fluoranthene	0.0972	0.00335	"	0.164	<0.00219	59.2	30-130	9.5	30	
Indeno(1,2,3-cd)pyrene	0.0761	0.00335	"	0.164	<0.00314	46.4	30-130	17.1	30	
Fluorene	0.144	0.00335	"	0.164	0.0337	67.2	30-130	2	30	
Fluoranthene	0.115	0.00335	"	0.164	<0.00197	70.1	30-130	2.5	30	
Chrysene	0.117	0.00335	"	0.164	0.00335	69.2	30-130	4.1	30	
Surrogate: 2-Fluorobiphenyl	50.4		"	0.329	183	50.4	33-115			
Surrogate: Nitrobenzene-d5	60.4		"	0.329	186	60.4	29-110			
Surrogate: 4-Terphenyl-d14	58.3		"	0.329	223	58.3	33-122			

MS (L 99347-MS-L637611)		Source: 99347			Prepared: 09/15/2022 Analyzed: 09/15/2022					
Benzo(k)fluoranthene	0.107	0.00335	mg/Kg	0.163	<0.00219	65.6	30-130			
Chrysene	0.122	0.00335	"	0.163	0.00335	72.7	30-130			
Dibenz(a,h)anthracene	0.119	0.00335	"	0.163	<0.00307	73	30-130			
Fluoranthene	0.118	0.00335	"	0.163	<0.00197	72.3	30-130			
Fluorene	0.147	0.00335	"	0.163	0.0337	69.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0904	0.00335	"	0.163	<0.00314	55.4	30-130			
Pyrene	0.119	0.00335	"	0.163	<0.00322	73	30-130			

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Adam Kubat

Project Number: 222791

Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637611 - 3550B

MS (L 99347-MS-L637611)	Source: 99347			Prepared: 09/15/2022 Analyzed: 09/15/2022						
Benzo(b)fluoranthene	0.0942	0.00335	mg/Kg	0.163	<0.00293	57.7	30-130			
Acenaphthene	0.113	0.00335	"	0.163	0.00928	63.6	30-130			
Naphthalene	0.443	0.00335	"	0.163	0.204	147	30-130			*
1-Methylnaphthalene	0.789	0.00335	"	0.163	0.496	180	30-130			*
Anthracene	0.114	0.00335	"	0.163	<0.00167	69.9	30-130			
2-Methylnaphthalene	1.1	0.00335	"	0.163	0.717	235	30-130			*
Benzo(a)anthracene	0.109	0.00335	"	0.163	<0.00247	66.8	30-130			
Benzo(a)pyrene	0.131	0.00335	"	0.163	<0.00234	80.3	30-130			
Surrogate: Nitrobenzene-d5	67.2		"	0.327	186	67.2	29-110			
Surrogate: 4-Terphenyl-d14	74.9		"	0.327	223	74.9	33-122			
Surrogate: 2-Fluorobiphenyl	65.1		"	0.327	183	65.1	33-115			

LCS (LCS-L637611)	Prepared: 09/15/2022 Analyzed: 09/15/2022									
Benzo(b)fluoranthene	0.116	0.00067	mg/Kg	0.167		69.4	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.167		79	30-130			
Chrysene	0.137	0.00067	"	0.167		82	30-130			
Benzo(a)pyrene	0.146	0.00067	"	0.167		87.4	30-130			
Fluoranthene	0.135	0.00067	"	0.167		80.8	30-130			
2-Methylnaphthalene	0.11	0.00067	"	0.167		65.8	30-130			
Fluorene	0.121	0.00067	"	0.167		72.4	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.167		74.2	30-130			
Anthracene	0.124	0.00067	"	0.167		74.2	30-130			
1-Methylnaphthalene	0.109	0.00067	"	0.167		65.2	30-130			
Pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Naphthalene	0.107	0.00067	"	0.167		64	30-130			

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Project: Taproot-BMV

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L637611 - 3550B

LCS (LCS-L637611)

Prepared: 09/15/2022 Analyzed: 09/15/2022

Acenaphthene	0.112	0.00067	mg/Kg	0.167		67	30-130			
Surrogate: 4-Terphenyl-d14	92.4		"	0.333		92.4	33-122			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333		72.3	33-115			
Surrogate: Nitrobenzene-d5	67.5		"	0.333		67.5	29-110			

LRB (LRB-L637611)

Prepared: 09/15/2022 Analyzed: 09/15/2022

Fluorene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333		65.4	33-115			
Surrogate: 4-Terphenyl-d14	84		"	0.333		84	33-122			
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			

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 Project: Taproot-BMV

Total Metals by 7196 A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L638538 -										
DUP (L 99222-DUP)		Source: Y209228-06			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 99222-MS)		Source: Y209228-06			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	34.8	2.5	mg/Kg	38.5	< 0.246	90	75-125			
MSD (L 99222-MSD)		Source: Y209228-06			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	462	50.1	mg/Kg	691	<24.4	67	75-125			*
LCS (LCS)					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	6.32	0.5	mg/Kg	8		79	75-125			
LRB (LRB)					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 Project: Taproot-BMV

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L638537 -										
DUP (L 84276-DUP)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 84276-MS)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	31.1	2.5	mg/Kg	38.7	< 0.253	80	75-125			
MSD (L 84276-MSD)		Source: 84276			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	516	51.9	mg/Kg	676	<25.3	76	75-125			

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Project: Taproot-BMV

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 1

Description:

Initial site conditions on 9/5 looking east.



Photo: 2

Description:

Initial site conditions looking southwest.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 3

Description:

Initial site conditions looking south.



Photo: 4

Description:

Release location.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 5

Description:

The outlined impacted area of the adjacent property to the southwest.



Photo: 6

Description:

Liquid Vac Truck Operator working to remove free liquids.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 7

Description:

Hydro excavator working in the primary excavation area to locate the pipeline failure.



Photo: 8

Description:

Locating the failure in the pipeline.



Taproot – Big Mountain Viper Pad – Produced Water Release



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 11

Description:

Surface scrapping of impacted area to remove visible wet soil.



Photo: 12

Description:

Loading impacted soil for disposal.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 13

Description:

Primary excavation area after exposing failed pipeline. View looking north.



Photo: 14

Description:

Secondary excavation area after surface scrape looking west.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 15

Description:

Secondary excavation area after surface scrape, looking east.



Photo: 16

Description:

Secondary excavation area after surface scrape looking north.



Taproot – Big Mountain Viper Pad – Produced Water Release

Photo: 17

Description:

Adjacent property after surface scrape.



Photo: 18

Description:

Replaced line with stainless steel pipe. View looking north.



Photo: 19

Description:

Area of surface impacts to the east of the primary excavation. Hand digging and hydroexcavation performed until no observed impacts. View looking north.



Photo: 20

Description:

Widening of primary excavation completed on 11/10 and 11/11. Secondary sidewall samples collected.

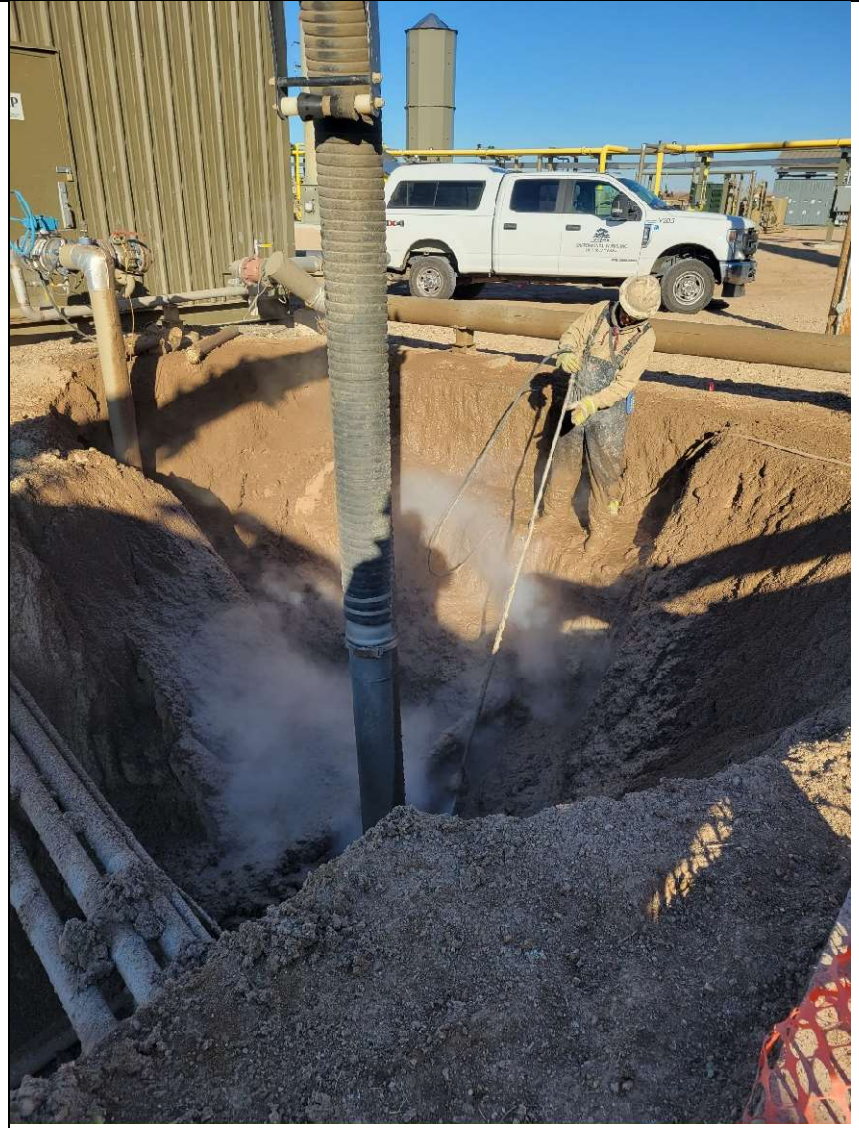


Photo: 21

Description:

Widening of primary excavation completed on 11/10 and 11/11. Existing infrastructure hindering further excavation.

