

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.



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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 #: NB

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 <sup>(1)?</sup>	<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 <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with Na <sub>2</sub> SO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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: JB (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			"	"	"	
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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	90.8 %		70-130			"	"	"	
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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	"	"	"	"	"	

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

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.00161</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	<b>0.00108</b>	<b>0.000645</b>	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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 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)**

**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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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)**

**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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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	<b>4.62</b>		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>2.90</b>		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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Environmental Works

AP@environmentalworks.com

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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**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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Environmental Works

AP@environmentalworks.com

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)**

**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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

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)**

**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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AP@environmentalworks.com

Briggsdale CO 80204

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

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.000858</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L637248	09/14/2022	09/14/2022	
2-Methylnaphthalene	<b>0.000671</b>	<b>0.000645</b>	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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AP@environmentalworks.com

Briggsdale CO 80204

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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Environmental Works  
 AP@environmentalworks.com  
 Briggsdale CO 80204

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)**

**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

AP@environmentalworks.com

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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Environmental Works

AP@environmentalworks.com

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)

**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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AP@environmentalworks.com

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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**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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Environmental Works  
 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

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)

**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: <i>o</i> -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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Environmental Works

AP@environmentalworks.com

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)**

**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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Environmental Works

AP@environmentalworks.com

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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**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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Environmental Works  
 AP@environmentalworks.com  
 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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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	<b>26.4</b>		0.499	meq/L	10	[CALC]	09/12/2022	09/13/2022	
Magnesium	<b>2.38</b>		0.823	"	"	"	"	"	
Sodium	<b>28.3</b>		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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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Environmental Works  
 AP@environmentalworks.com  
 Briggsdale CO 80204

Adam Kubat  
 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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Environmental Works

AP@environmentalworks.com

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)**

**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

AP@environmentalworks.com

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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Environmental Works

AP@environmentalworks.com

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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**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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Environmental Works  
 AP@environmentalworks.com  
 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)**

**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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Environmental Works  
 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

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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Environmental Works

AP@environmentalworks.com

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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**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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Environmental Works  
 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

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)**

**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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Environmental Works

AP@environmentalworks.com

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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AP@environmentalworks.com

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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**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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 AP@environmentalworks.com  
 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)**

**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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 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

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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Environmental Works

AP@environmentalworks.com

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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**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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Environmental Works

AP@environmentalworks.com

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)**

**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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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)**

**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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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)**

<b>Matrix Spike (B211005-MS1)</b>	<b>Source: Y209175-01</b>			<b>Prepared: 09/10/2022 Analyzed: 09/15/2022</b>						
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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**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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Environmental Works  
 AP@environmentalworks.com  
 Briggsdale CO 80204

Adam Kubat  
 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
<b>Batch B211220 - EPA 3580</b>										
<b>Blank (B211220-BLK1)</b>										
					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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**

<b>Matrix Spike (B211220-MS1)</b>	<b>Source: Y209175-01</b>			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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**

<b>Matrix Spike Dup (B211220-MSD1)</b>	<b>Source: Y209175-01</b>			<b>Prepared: 09/12/2022 Analyzed: 09/20/2022</b>						
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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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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**\*\*\* 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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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 B2I1202 - Default Prep Metals**

<b>Matrix Spike (B2I1202-MS1)</b>		<b>Source: Y209166-05</b>			<b>Prepared: 09/12/2022 Analyzed: 09/14/2022</b>					
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			

<b>Matrix Spike Dup (B2I1202-MSD1)</b>		<b>Source: Y209166-05</b>			<b>Prepared: 09/12/2022 Analyzed: 09/14/2022</b>					
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 B2I1302 - Default Prep Metals**

<b>Blank (B2I1302-BLK1)</b>		<b>Prepared: 09/13/2022 Analyzed: 09/16/2022</b>								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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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 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			

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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**

<b>Matrix Spike (B211302-MS1)</b>		<b>Source: Y209177-09</b>			<b>Prepared: 09/13/2022 Analyzed: 09/15/2022</b>					
Zinc	137	92.9	mg/kg	92.9	19.5	127	75-125			QM-07
<b>Matrix Spike Dup (B211302-MSD1)</b>		<b>Source: Y209177-09</b>			<b>Prepared: 09/13/2022 Analyzed: 09/15/2022</b>					
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  
 AP@environmentalworks.com  
 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

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Environmental Works  
 AP@environmentalworks.com  
 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
<b>Batch B2I1208 - Default Prep Metals</b>										
<b>Blank (B2I1208-BLK1)</b>					Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	ND	0.100	mg/L							
<b>Duplicate (B2I1208-DUP1)</b>		<b>Source: Y209156-03</b>			Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	0.255	0.100	mg/L		0.257			0.883	50	
<b>Batch B2I1209 - Default Prep Metals</b>										
<b>Blank (B2I1209-BLK1)</b>					Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	ND	0.100	mg/L							
<b>Duplicate (B2I1209-DUP1)</b>		<b>Source: Y209177-07</b>			Prepared: 09/12/2022 Analyzed: 09/13/2022					
Boron	1.32	0.101	mg/L		1.54			15.3	50	

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 AP@environmentalworks.com  
 Briggsdale CO 80204

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

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Environmental Works

AP@environmentalworks.com

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

AP@environmentalworks.com

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
<b>Batch L637537 -</b>										
<b>DUP (L 98392-DUP)</b>		<b>Source: Y209177-10</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 98392-MS)</b>		<b>Source: Y209177-10</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	32.7	2.5	mg/Kg	39.8	< 0.249	82	75-125			
<b>MSD (L 98392-MSD)</b>		<b>Source: Y209177-10</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	529	51.1	mg/Kg	672	<24.9	79	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	7.26	0.5	mg/Kg	8		91	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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
<b>Batch L637536 -</b>										
<b>DUP (L 98385-DUP)</b>		<b>Source: Y209177-03</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 98385-MS)</b>		<b>Source: Y209177-03</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	24.9	2.5	mg/Kg	39.7	< 0.244	63	75-125			*
<b>MSD (L 98385-MSD)</b>		<b>Source: Y209177-03</b>			Prepared: Analyzed: 09/15/2022					
Chromium, Hexavalent	566	50.6	mg/Kg	645	<24.7	88	75-125			

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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**

**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 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



www.originslaboratory.com

222791

page of

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	Table 915	
SW1-6	9/12	14:05	2	X	X	X		X	X				1
SW2-6	9/12	14:15		X	X	X		X	X				2
SW5-6	9/12	13:30		X	X	X		X	X				3
<del>SW4-6</del> SW4-7.5	9/12	13:45		X	X	X		X	X				4
SW3-6	9/12	14:20		X	X	X		X	X				5
FS2-7.5	9/12	13:20		X	X	X		X	X				6
FS1-9	9/12	14:00		X	X	X		X	X				7
<del>SW6-6</del>	9/12	14:10		X	X	X		X	X				8
SS10-0.5	9/12	12:50		X	X	X		X	X				9
SS11-0.5	9/12	13:05		X	X	X		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 <sup>(1)</sup> ?		X		<u>8/10</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 <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup> 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

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)**

**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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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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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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**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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Origins Laboratory, Inc.



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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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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)**

**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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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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**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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 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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AP@environmentalworks.com

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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AP@environmentalworks.com

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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AP@environmentalworks.com

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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**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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 AP@environmentalworks.com  
 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

AP@environmentalworks.com

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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AP@environmentalworks.com

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)**

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

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.000563</b>	<b>0.000364</b>	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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AP@environmentalworks.com

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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**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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Environmental Works  
 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

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)**

**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			"	"	"	

Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

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)**

**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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Briggsdale CO 80204

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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**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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 AP@environmentalworks.com  
 Briggsdale CO 80204

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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 AP@environmentalworks.com  
 Briggsdale CO 80204

Adam Kubat  
 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)**

**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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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 AP@environmentalworks.com  
 Briggsdale CO 80204

Adam Kubat  
 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)**

**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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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)**

**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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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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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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**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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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)**

**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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AP@environmentalworks.com

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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Environmental Works

AP@environmentalworks.com

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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AP@environmentalworks.com

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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 AP@environmentalworks.com  
 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)**

**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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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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Origins Laboratory, Inc.



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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)**

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

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.00131</b>	<b>0.000364</b>	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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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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**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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 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)**

**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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AP@environmentalworks.com

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)**

**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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AP@environmentalworks.com

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	<b>8.86</b>		0.499	meq/L	10	[CALC]	09/13/2022	09/14/2022	
Magnesium	<b>3.72</b>		0.823	"	"	"	"	"	
Sodium	<b>87.3</b>		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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AP@environmentalworks.com

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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**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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 AP@environmentalworks.com  
 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)**

**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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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			

Origins Laboratory, Inc.



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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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)**

**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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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 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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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Environmental Works  
 AP@environmentalworks.com  
 Briggsdale CO 80204

Adam Kubat  
 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
<b>Batch B2I1611 - EPA 3580</b>										
<b>Blank (B2I1611-BLK1)</b>										
					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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**

**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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**

<b>Matrix Spike (B2I1611-MS1)</b>	<b>Source: Y209228-01</b>			<b>Prepared: 09/16/2022 Analyzed: 09/22/2022</b>						
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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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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**

<b>Matrix Spike Dup (B2I1611-MSD1)</b>	<b>Source: Y209228-01</b>			<b>Prepared: 09/16/2022 Analyzed: 09/22/2022</b>						
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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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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**\*\*\* 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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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 B2I1309 - Default Prep Metals**

<b>Matrix Spike (B2I1309-MS1)</b>		<b>Source: Y209196-01</b>			<b>Prepared: 09/13/2022 Analyzed: 09/15/2022</b>					
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			

<b>Matrix Spike Dup (B2I1309-MSD1)</b>		<b>Source: Y209196-01</b>			<b>Prepared: 09/13/2022 Analyzed: 09/15/2022</b>					
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**

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

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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 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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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 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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AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

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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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Environmental Works  
 AP@environmentalworks.com  
 Briggsdale CO 80204

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 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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Environmental Works

AP@environmentalworks.com

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 L637611 - 3550B**

<b>MSD (L 99347-MSD-L637611)</b>		<b>Source: 99347</b>			<b>Prepared: 09/15/2022 Analyzed: 09/15/2022</b>					
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			

<b>MS (L 99347-MS-L637611)</b>		<b>Source: 99347</b>			<b>Prepared: 09/15/2022 Analyzed: 09/15/2022</b>					
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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Environmental Works

AP@environmentalworks.com

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 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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**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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 Briggsdale CO 80204

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**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
<b>Batch L638538 -</b>										
<b>DUP (L 99222-DUP)</b>		<b>Source: Y209228-06</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 99222-MS)</b>		<b>Source: Y209228-06</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	34.8	2.5	mg/Kg	38.5	< 0.246	90	75-125			
<b>MSD (L 99222-MSD)</b>		<b>Source: Y209228-06</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	462	50.1	mg/Kg	691	<24.4	67	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	6.32	0.5	mg/Kg	8		79	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 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
<b>Batch L638537 -</b>										
<b>DUP (L 84276-DUP)</b>		<b>Source: 84276</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 84276-MS)</b>		<b>Source: 84276</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	31.1	2.5	mg/Kg	38.7	< 0.253	80	75-125			
<b>MSD (L 84276-MSD)</b>		<b>Source: 84276</b>			Prepared: Analyzed: 09/20/2022					
Chromium, Hexavalent	516	51.9	mg/Kg	676	<25.3	76	75-125			

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Briggsdale CO 80204

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Project Number: 222791

Project: Taproot-BMV

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### 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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