



February 15, 2024

Environmental Works

Adam Kubat

AP@environmentalworks.com

Briggsdale CO 80204

Project Name - Taproot - Hale

Project Number - 240513-A1

Attached are your analytical results for Taproot - Hale received by Origins Laboratory, Inc. February 05, 2024. This project is associated with Origins project number Y402133-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS3-2.5	Y402133-01	Soil	February 2, 2024 10:10	02/05/2024 15:20
BS3-5	Y402133-02	Soil	February 2, 2024 10:10	02/05/2024 15:20
BS4-2.5	Y402133-03	Soil	February 2, 2024 10:20	02/05/2024 15:20
BS4-5	Y402133-04	Soil	February 2, 2024 10:20	02/05/2024 15:20
BS2-2.5	Y402133-05	Soil	February 2, 2024 10:30	02/05/2024 15:20
BS2-5	Y402133-06	Soil	February 2, 2024 10:30	02/05/2024 15:20
SW9-2.5	Y402133-07	Soil	February 2, 2024 10:35	02/05/2024 15:20
SW9-5	Y402133-08	Soil	February 2, 2024 10:35	02/05/2024 15:20
SW2-2.5	Y402133-09	Soil	February 2, 2024 10:40	02/05/2024 15:20
SW2-5	Y402133-10	Soil	February 2, 2024 10:40	02/05/2024 15:20
SW3-2.5	Y402133-11	Soil	February 2, 2024 10:50	02/05/2024 15:20
SW3-5	Y402133-12	Soil	February 2, 2024 10:50	02/05/2024 15:20
SW7-2.5	Y402133-13	Soil	February 2, 2024 11:00	02/05/2024 15:20
SW7-5	Y402133-14	Soil	February 2, 2024 11:00	02/05/2024 15:20

Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW5-2.5	Y402133-15	Soil	February 2, 2024 11:10	02/05/2024 15:20
SW5-5	Y402133-16	Soil	February 2, 2024 11:10	02/05/2024 15:20
SW4-2.5	Y402133-17	Soil	February 2, 2024 11:20	02/05/2024 15:20
SW4-5	Y402133-18	Soil	February 2, 2024 11:20	02/05/2024 15:20

Origins Laboratory, Inc.



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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

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4402133

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ORIGINS LABORATORY, INC

Client: Taproot Environmental Works Inc. Project Manager: Adam Kubat

Address: 2770 Industrial Ln Project Name: Taproot - Hale

Broomfield, CO 80020 Project Number: 240513-A1

Telephone Number: 507-475-2825 Samples Collected By: ARK

Email Address: AKubat@environmentalworks.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
BS3 - 2.5	2/2/24	10:10	2	Unpreserved	Soil	Asenic	1
BS3 - 5	2/2/24	10:10	2	Unpreserved	Soil	Asenic	2
BS4 - 2.5	2/2/24	10:20	2	Unpreserved	Soil	Asenic	3
BS4 - 5	2/2/24	10:20	2	Unpreserved	Soil	Asenic	4
BS2 - 2.5	2/2/24	10:30	2	Unpreserved	Soil	Asenic	5
BS2 - 5	2/2/24	10:30	2	Unpreserved	Soil	Asenic	6
SW4 - 2.5	2/2/24	10:35	2	Unpreserved	Soil	Asenic	7
SW4 - 5	2/2/24	10:35	2	Unpreserved	Soil	Asenic	8
SW2 - 2.5	2/2/24	10:40	2	Unpreserved	Soil	Asenic	9
SW2 - 5	2/2/24	10:40	2	Unpreserved	Soil	Asenic	10
Relinquished By: <u>hung sum</u>	Date: <u>2/5/24</u>	Time: <u>3:20</u>		Received By: <u>U</u>	Date: <u>2/5/24</u>	Time: <u>1520</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:		Received By:	Date:	Time:	

Date Results Needed

Temp Received- S

Origins Laboratory, Inc.

J Bynon

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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

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page 2 of 2

ORIGINS

LABORATORY, INC

Client: Environmental Works, Inc.
 Address: 2770 Industrial Ln
Broomfield, CO 80020
 Telephone Number: 507-475-2825
 Email Address: AKubat@environmentalworks.com

Project Manager: Adam Kubat
 Project Name: Taproot - Hale
 Project Number: 240513-A1
 Samples Collected By: ARK

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	AVS/C	
SW3-2.5	2/2/24	10:50	2										1
SW3-5	2/2/24	10:50	2										2
SW7-2.5	2/2/24	11:00	2										3
SW7-5	2/2/24	11:00	2										4
SW5-2.5	2/2/24	11:10	2										5
SW5-5	2/2/24	11:10	2										6
SW4-2.5	2/2/24	11:20	2										7
SW4-5	2/2/24	11:20	2										8
													9
													10

Relinquished By: <u>Muffy van</u>	Date: <u>2/5/24</u>	Time: <u>3:20 pm</u>	Received By: <u>[Signature]</u>	Date: <u>2/5/24</u>	Time: <u>1:50</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Date Results Needed

Temp Received- 5

Origins Laboratory, Inc.

J. Bynon

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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4402123

Client: Env. Works

Client Project ID: Taproot - Hale

Checklist Completed by: EHS

Shipped Via: HO

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/5/24

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

2/7/24
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Environmental Works

AP@environmentalworks.com

Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

BS3-2.5

2/2/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.402	0.0994	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.23	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.31		pH Units	1	B4B0817	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.190	0.0100	SAR	1	B4B0808	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.294	0.00500	mmhos/cm	1	B4B0817	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.04	0.0925	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

BS3-5

2/2/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.35	0.0997	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	4.16	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	1.02	0.823	"	"	"	ACC	"	"
Sodium	7.90	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.33		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	4.91	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.43	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.30	0.0959	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

BS4-2.5

2/2/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.607	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.78	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	0.939	0.823	"	"	"	ACC	"	"
Sodium	1.03	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.673	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.721	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.01	0.0937	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

BS4-5

2/2/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.382	0.0992	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.32	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	0.833	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.34		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.690	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.421	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.44	0.0936	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

BS2-2.5

2/2/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.429	0.0998	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.68	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.00	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.39		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	1.93	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.472	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	2.90	0.0938	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Project Number: 240513-A1

Project: Taproot - Hale

BS2-5

2/2/2024 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.718	0.0987	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	0.635	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.83	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.50		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	4.50	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.418	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.70	0.0887	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW9-2.5

2/2/2024 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.484	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	0.821	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.27		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.751	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.348	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.33	0.0903	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW9-5

2/2/2024 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.788	0.0993	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.72	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	3.21	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	3.10	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.666	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.69	0.0938	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW2-2.5

2/2/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.410	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.42	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.17	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.38		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	1.29	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.311	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.74	0.0984	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW2-5

2/2/2024 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-10 (Soil)

Boron (DTPA Sorbitol)

Boron	1.59	0.100	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	10.7	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	1.69	0.823	"	"	"	ACC	"	"
Sodium	6.14	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.10		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.46	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.86	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.76	0.0964	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Project Number: 240513-A1

Project: Taproot - Hale

SW3-2.5

2/2/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.747	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.06	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.38	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.25		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.13	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.546	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	2.50	0.0960	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Environmental Works

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Project Number: 240513-A1

Project: Taproot - Hale

SW3-5

2/2/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-12 (Soil)

Boron (DTPA Sorbitol)

Boron	1.33	0.0998	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	22.9	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	3.13	0.823	"	"	"	ACC	"	"
Sodium	7.89	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	7.97		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.19	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.03	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.23	0.0956	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Environmental Works

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Project Number: 240513-A1

Project: Taproot - Hale

SW7-2.5

2/2/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.637	0.0996	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.95	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	2.01	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	1.85	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.530	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	3.00	0.0914	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Project Number: 240513-A1

Project: Taproot - Hale

SW7-5

2/2/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-14 (Soil)

Boron (DTPA Sorbitol)

Boron	1.86	0.0987	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	7.92	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	1.38	0.823	"	"	"	ACC	"	"
Sodium	5.99	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.16		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.78	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.79	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.55	0.0921	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Project Number: 240513-A1

Project: Taproot - Hale

SW5-2.5

2/2/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.430	0.102	mg/L	1	B4B0815	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.89	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.08		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.181	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.428	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	2.53	0.0899	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW5-5

2/2/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-16 (Soil)

Boron (DTPA Sorbitol)

Boron	1.63	0.0991	mg/L	1	B4B0815	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	7.76	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	1.45	0.823	"	"	"	ACC	"	"
Sodium	4.67	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.18	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.56	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.18	0.0847	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW4-2.5

2/2/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-17 (Soil)

Boron (DTPA Sorbitol)

Boron	0.434	0.0983	mg/L	1	B4B0815	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	2.47	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	0.697	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.30		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	0.559	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.400	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	2.72	0.0950	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

SW4-5

2/2/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402133-18 (Soil)

Boron (DTPA Sorbitol)

Boron	1.34	0.0992	mg/L	1	B4B0815	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	15.0	0.499	meq/L	10	[CALC]	ACC	02/08/2024	02/09/2024
Magnesium	3.01	0.823	"	"	"	ACC	"	"
Sodium	7.05	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B4B0818	EAL	02/08/2024	02/09/2024
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SAR by 20B Saturated Paste

SAR	2.35	0.0100	SAR	1	B4B0809	ACC	02/08/2024	02/09/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.82	0.00500	mmhos/cm	1	B4B0818	EAL	02/08/2024	02/09/2024
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Table 915 metals by EPA 6020B

Arsenic	4.22	0.0849	mg/kg	10	B4B0617	HJD	02/06/2024	02/09/2024
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Origins Laboratory, Inc.



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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B0617 - EPA 3050B										
Blank (B4B0617-BLK1)					Prepared: 02/06/2024 Analyzed: 02/09/2024					
Arsenic	ND	0.0100	mg/kg							
LCS (B4B0617-BS1)					Prepared: 02/06/2024 Analyzed: 02/09/2024					
Arsenic	4.53	0.0100	mg/kg	5.00		90.7	80-120			
Matrix Spike (B4B0617-MS1)		Source: Y402133-01			Prepared: 02/06/2024 Analyzed: 02/09/2024					
Arsenic	7.45	0.0849	mg/kg	4.25	3.04	104	75-125			
Matrix Spike Dup (B4B0617-MSD1)		Source: Y402133-01			Prepared: 02/06/2024 Analyzed: 02/09/2024					
Arsenic	7.38	0.0904	mg/kg	4.52	3.04	95.9	75-125	0.971	20	

Origins Laboratory, Inc.



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Environmental Works

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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

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 B4B0808 - Saturated Paste Metals

Blank (B4B0808-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B4B0808-DUP1)

Source: Y402133-01

Prepared: 02/08/2024 Analyzed: 02/09/2024

Calcium PPM	39.8	10.0	mg/L	44.7	11.5	50
SAR	ND	0.0100	SAR	0.190		200
Magnesium PPM	2.98	10.0	mg/L	3.32	10.8	50
Sodium PPM	4.98	10.0	"	4.90	1.62	50

Batch B4B0809 - Saturated Paste Metals

Blank (B4B0809-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4B0809-DUP1)

Source: Y402133-02

Prepared: 02/08/2024 Analyzed: 02/09/2024

Calcium PPM	78.2	10.0	mg/L	83.3	6.41	50
SAR	ND	0.0100	SAR	4.91		200
Magnesium PPM	11.7	10.0	mg/L	12.4	5.31	50
Sodium PPM	178	10.0	"	182	1.79	50

Batch B4B0814 - DTPA Sorbitol Preparation

Blank (B4B0814-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Origins Laboratory, Inc.



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Environmental Works

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Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B0814 - DTPA Sorbitol Preparation										
Blank (B4B0814-BLK1)					Prepared: 02/08/2024 Analyzed: 02/09/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B0814-DUP1)					Source: Y402130-01 Prepared: 02/08/2024 Analyzed: 02/09/2024					
Boron	0.245	0.0987	mg/L		0.249			1.51	50	
Batch B4B0815 - DTPA Sorbitol Preparation										
Blank (B4B0815-BLK1)					Prepared: 02/08/2024 Analyzed: 02/09/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B0815-DUP1)					Source: Y402133-15 Prepared: 02/08/2024 Analyzed: 02/09/2024					
Boron	0.366	0.0998	mg/L		0.430			16.1	50	

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Environmental Works

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Briggsdale CO 80204

Adam Kubat

Project Number: 240513-A1

Project: Taproot - Hale

Saturated Paste - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0817 - Saturated Paste pH/EC

Blank (B4B0817-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B0817-DUP1)

Source: Y402133-01

Prepared: 02/08/2024 Analyzed: 02/09/2024

pH	8.27		pH Units	8.31			0.483	25
Specific Conductance (EC)	0.265	0.00500	mmhos/cm	0.294			10.4	25

Batch B4B0818 - Saturated Paste pH/EC

Blank (B4B0818-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B0818-DUP1)

Source: Y402133-02

Prepared: 02/08/2024 Analyzed: 02/09/2024

pH	8.34		pH Units	8.33			0.120	25
Specific Conductance (EC)	1.39	0.00500	mmhos/cm	1.43			2.87	25

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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