



Eagle Environmental Consulting, LLC

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

December 04, 2024

Project Name - Noble - Brown USX AA 03-23

Project Number - [none]

Attached are your analytical results for Noble - Brown USX AA 03-23 received by Origins Laboratory October 31, 2024. This project is associated with Origins project number E410999-01.

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  
303.433.1322  
projectmanager@originslab.com



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



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - Brown USX AA 03-23

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@7-8'	E410999-01	Soil	October 30, 2024 12:05	10/31/2024 10:43
Background-02@8-9'	E410999-02	Soil	October 30, 2024 12:20	10/31/2024 10:43
Background-03@7-8'	E410999-03	Soil	October 30, 2024 13:05	10/31/2024 10:43
Background-03@8-9'	E410999-04	Soil	October 30, 2024 13:20	10/31/2024 10:43
Background-04@7-8'	E410999-05	Soil	October 30, 2024 14:05	10/31/2024 10:43
Background-04@8-9'	E410999-06	Soil	October 30, 2024 14:15	10/31/2024 10:43
Background-05@7-8'	E410999-07	Soil	October 30, 2024 15:05	10/31/2024 10:43
Background-05@8-9'	E410999-08	Soil	October 30, 2024 15:15	10/31/2024 10:43
Background-06@7-8'	E410999-09	Soil	October 30, 2024 16:05	10/31/2024 10:43
Background-06@8-9'	E410999-10	Soil	October 30, 2024 16:20	10/31/2024 10:43

Origins Laboratory

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Jordan A. Bynon, Project Manager

# ORIGINS LABORATORY

Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

## ORIGINS LABORATORY INC

ORIGINS WORK ORDER #

6410999

Page 1 of 1

Client: State Environmental Commission  
 Address: 8000 W 44th Ave  
 Project Manager: Meredith Lammiman  
 Project Name: Brown - USX AA #3-23  
 Key: W=Water

Telephone Number: 303-433-0079  
 Email Address: amanda@originslab.com  
 Project Number: 158 AA #3-23  
 Collected By: JPL  
 Invoice/Billing Info: North Branch to Paw  
 W=Waste Water  
 L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Urine | H=Hem | HC=Hydrochloric | HI=Hypochlorite | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservation	Analysis										Comments		
						Brown	DTPA	pH	SRP	SAR	203	EC	9030A	914	Medals		402018	Cr
1	Redwood-061781	10/30/21	1005	5	U20	X	X	X	X	X	X	X	X	X	X	X	X	ELM (H) =
2	Redwood-061781		1120															smoked pipe
3	Redwood-030781		1305															pad
4	Redwood-08181		1320															
5	Redwood-08181		1405															
6	Redwood-08181		1415															
7	Redwood-081781		1505															
8	Redwood-05081		1515															
9	Redwood-062781		1605															
10	Redwood-06181		1610															

1725 Elk Place Denver, Co. 80211 # 303.433.1322 | originslab.com | Temp Received - 4.6  
 Received On Ice?  Yes  No  
 Standard  
 48 Hr  72 Hr  
 SAME DAY  
 24 Hr  
 Turnaround Time

Origins Laboratory

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Jordan A. Bynon, Project Manager

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: Euro999 Client: Eagle  
 Checklist Completed by: JHDS Client Project ID: Brown  
 Date/time completed: 10/31/24 Shipped Via: HO  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Matrix(s) Received: (Check all that apply):  Soil/Solid Water: \_\_\_\_\_ Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 4.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 707

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> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 <sub>2</sub> -NaOH)			/	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JHDS

11/4/24  
 Date/Time Reviewed

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Jordan A. Bynon, Project Manager

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 Project Number: [none]  
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**Background-02@7-8'**  
**10/30/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.955		0.0996	mg/L	1	B4K0123	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	13.0		0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	7.95		0.823	"	"	"	"	"	
Sodium	40.8		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.05			pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	12.6		0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.26		0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.34		0.258	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	151		8.90	"	"	"	"	"	
Cadmium	0.192		0.0890	"	"	"	"	"	
Copper	ND		8.90	"	"	"	"	"	

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**Background-02@7-8'**  
**10/30/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-01 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	9.52		0.890	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	9.33		0.890	"	"	"	"	"	
Selenium	0.243		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	"	
Zinc	40.2		32.9	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.230	0.164	0.410	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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**Background-02@8-9'**  
**10/30/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.859		0.100	mg/L	1	B4K0123	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.25		0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	2.72		0.823	"	"	"	"	"	
Sodium	28.5		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	16.5		0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.55		0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.92		0.254	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	129		8.76	"	"	"	"	"	
Cadmium	0.183		0.0876	"	"	"	"	"	
Copper	ND		8.76	"	"	"	"	"	

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**Background-02@8-9'**  
**10/30/2024 12:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-02 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	9.49		0.876	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	9.07		0.876	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	39.9		32.4	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.216	0.129	0.322	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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**Background-03@7-8'**  
**10/30/2024 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.81		0.0999	mg/L	1	B4K0123	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	20.9		0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	15.7		0.823	"	"	"	"	"	
Sodium	38.8		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.95			pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	9.07		0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	6.02		0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.84		0.253	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	91.4		8.73	"	"	"	"	"	
Cadmium	0.250		0.0873	"	"	"	"	"	
Copper	13.6		8.73	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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**Background-03@7-8'**  
**10/30/2024 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	13.2		0.873	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	12.2		0.873	"	"	"	"	"	
Selenium	0.302		0.227	"	"	"	"	"	
Silver	ND		0.0873	"	"	"	"	"	
Zinc	63.7		32.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.263	0.134	0.335	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
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**Background-03@8-9'**  
**10/30/2024 1:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.40	0.0999	mg/L	1	B4K0123	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	22.3	0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	16.1	0.823	"	"	"	"	"	
Sodium	42.7	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.88		pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	9.75	0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	6.01	0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.02	0.268	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	201	9.23	"	"	"	"	"	
Cadmium	0.309	0.0923	"	"	"	"	"	
Copper	14.2	9.23	"	"	"	"	"	

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**Background-03@8-9'**  
**10/30/2024 1:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-04 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	15.4		0.923	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	14.3		0.923	"	"	"	"	"	
Selenium	0.313		0.240	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	65.4		34.1	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.369	0.188	0.471	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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**Background-04@7-8'**  
**10/30/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.32	0.0989	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	10.1	0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	4.41	0.823	"	"	"	"	"	
Sodium	33.8	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.99		pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	12.6	0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.19	0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.88	0.264	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	131	9.10	"	"	"	"	"	
Cadmium	0.301	0.0910	"	"	"	"	"	
Copper	15.4	9.10	"	"	"	"	"	

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**Background-04@7-8'**  
**10/30/2024 2:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-05 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	14.2		0.910	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	14.4		0.910	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.0910	"	"	"	"	"	
Zinc	67.3		33.7	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.271	0.138	0.346	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-04@8-9'**  
**10/30/2024 2:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.03	0.101	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.80	0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	1.31	0.823	"	"	"	"	"	
Sodium	22.7	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.20		pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	15.9	0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.65	0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	10.2	0.278	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	200	9.58	"	"	"	"	"	
Cadmium	0.339	0.0958	"	"	"	"	"	
Copper	16.9	9.58	"	"	"	"	"	

Origins Laboratory

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-04@8-9'**  
**10/30/2024 2:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-06 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	15.7		0.958	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	15.8		0.958	"	"	"	"	"	
Selenium	0.294		0.249	"	"	"	"	"	
Silver	ND		0.0958	"	"	"	"	"	
Zinc	77.8		35.5	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.259	0.154	0.385	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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 Project: Noble - Brown USX AA 03-23

**Background-05@7-8'**  
**10/30/2024 3:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.40		0.100	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	21.9		0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	8.61		0.823	"	"	"	"	"	
Sodium	44.7		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.87			pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	11.5		0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	6.06		0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.51		0.251	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	139		8.66	"	"	"	"	"	
Cadmium	0.300		0.0866	"	"	"	"	"	
Copper	14.7		8.66	"	"	"	"	"	

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 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-05@7-8'**  
**10/30/2024 3:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-07 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	13.4		0.866	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	13.6		0.866	"	"	"	"	"	
Selenium	0.366		0.225	"	"	"	"	"	
Silver	ND		0.0866	"	"	"	"	"	
Zinc	66.2		32.0	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.167	0.148	0.371	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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 Project: Noble - Brown USX AA 03-23

**Background-05@8-9'**  
**10/30/2024 3:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.991		0.100	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	18.7		0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	6.64		0.823	"	"	"	"	"	
Sodium	39.9		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.89			pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	11.2		0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	5.48		0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.17		0.265	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	165		9.14	"	"	"	"	"	
Cadmium	0.325		0.0914	"	"	"	"	"	
Copper	16.9		9.14	"	"	"	"	"	

Origins Laboratory

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-05@8-9'**  
**10/30/2024 3:15:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-08 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	15.5		0.914	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	15.4		0.914	"	"	"	"	"	
Selenium	0.364		0.238	"	"	"	"	"	
Silver	ND		0.0914	"	"	"	"	"	
Zinc	72.6		33.8	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.259	0.154	0.384	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-06@7-8'**  
**10/30/2024 4:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.845	0.0993	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	17.5	0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	9.34	0.823	"	"	"	"	"	
Sodium	34.2	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.90		pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	9.34	0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.95	0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	8.19	0.283	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	155	9.76	"	"	"	"	"	
Cadmium	0.519	0.0976	"	"	"	"	"	
Copper	12.7	9.76	"	"	"	"	"	

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 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-06@7-8'**  
**10/30/2024 4:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-09 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	20.2		0.976	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	18.5		0.976	"	"	"	"	"	
Selenium	ND		0.254	"	"	"	"	"	
Silver	ND		0.0976	"	"	"	"	"	
Zinc	59.3		36.1	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.238	0.170	0.424	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-06@8-9'**  
**10/30/2024 4:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.726	0.0995	mg/L	1	B4K0124	11/01/2024	11/04/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	21.3	0.499	meq/L	10	[CALC]	11/04/2024	11/05/2024	
Magnesium	8.68	0.823	"	"	"	"	"	
Sodium	26.3	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.88		pH Units	1	B4K0421	11/04/2024	11/05/2024	
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**SAR by 20B Saturated Paste**

SAR	6.80	0.0100	SAR	1	B4K0417	11/04/2024	11/05/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.70	0.00500	mmhos/cm	1	B4K0421	11/04/2024	11/05/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.80	0.270	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Barium	109	9.31	"	"	"	"	"	
Cadmium	0.236	0.0931	"	"	"	"	"	
Copper	9.62	9.31	"	"	"	"	"	

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Background-06@8-9'**  
**10/30/2024 4:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410999-10 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.4		0.931	mg/kg	10	B4J3142	10/31/2024	11/02/2024	
Nickel	11.0		0.931	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	46.9		34.4	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.156	0.139	0.347	mg/kg dry	1	2711456	11/27/2024	12/03/2024	J
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J3142 - EPA 3050B**

**Blank (B4J3142-BLK1)**

Prepared: 10/31/2024 Analyzed: 11/02/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

**LCS (B4J3142-BS1)**

Prepared: 10/31/2024 Analyzed: 11/02/2024

Arsenic	5.90	0.290	mg/kg	5.00		118	80-120			
Barium	567	10.0	"	500		113	80-120			
Cadmium	5.88	0.100	"	5.00		118	80-120			
Copper	58.0	10.0	"	50.0		116	80-120			
Lead	5.69	1.00	"	5.00		114	80-120			
Nickel	6.00	1.00	"	5.00		120	80-120			
Selenium	5.56	0.260	"	5.00		111	80-120			
Silver	5.80	0.100	"	5.00		116	80-120			
Zinc	56.9	37.0	"	50.0		114	80-120			

**Matrix Spike (B4J3142-MS1)**

Source: E410999-01

Prepared: 10/31/2024 Analyzed: 11/02/2024

Arsenic	8.09	0.249	mg/kg	4.29	4.34	87.2	75-125			
Barium	622	8.59	"	429	151	110	75-125			
Cadmium	4.86	0.0859	"	4.29	0.192	109	75-125			
Copper	52.1	8.59	"	42.9	8.56	101	75-125			
Lead	13.5	0.859	"	4.29	9.52	92.5	75-125			

Origins Laboratory

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4J3142 - EPA 3050B**

**Matrix Spike (B4J3142-MS1)**

**Source: E410999-01**

Prepared: 10/31/2024 Analyzed: 11/02/2024

Nickel	13.0	0.859	mg/kg	4.29	9.33	84.6	75-125			
Selenium	4.19	0.223	"	4.29	0.243	91.9	75-125			
Silver	4.70	0.0859	"	4.29	0.0303	109	75-125			
Zinc	81.1	31.8	"	42.9	40.2	95.1	75-125			

**Matrix Spike Dup (B4J3142-MSD1)**

**Source: E410999-01**

Prepared: 10/31/2024 Analyzed: 11/02/2024

Arsenic	8.56	0.277	mg/kg	4.78	4.34	88.4	75-125	5.71	20	
Barium	639	9.56	"	478	151	102	75-125	2.72	20	
Cadmium	5.12	0.0956	"	4.78	0.192	103	75-125	5.11	20	
Copper	55.4	9.56	"	47.8	8.56	98.1	75-125	6.27	20	
Lead	13.7	0.956	"	4.78	9.52	88.2	75-125	1.77	20	
Nickel	13.8	0.956	"	4.78	9.33	92.6	75-125	5.93	20	
Selenium	4.87	0.248	"	4.78	0.243	96.8	75-125	15.0	20	
Silver	4.91	0.0956	"	4.78	0.0303	102	75-125	4.39	20	
Zinc	86.6	35.4	"	47.8	40.2	97.1	75-125	6.60	20	

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4K0123 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4K0123-BLK1)</b>					Prepared: 11/01/2024 Analyzed: 11/04/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4K0123-DUP1)</b>		<b>Source: E410982-14</b>				Prepared: 11/01/2024 Analyzed: 11/05/2024				
Boron	0.526	0.988	mg/L		0.519			1.27	50	
<b>Batch B4K0124 - DTPA Sorbitol Preparation</b>										
<b>Blank (B4K0124-BLK1)</b>					Prepared: 11/01/2024 Analyzed: 11/04/2024					
Boron	ND	0.100	mg/L							
<b>Duplicate (B4K0124-DUP1)</b>		<b>Source: E410999-05</b>				Prepared: 11/01/2024 Analyzed: 11/04/2024				
Boron	1.29	0.0993	mg/L		1.32			2.82	50	
<b>Batch B4K0417 - Saturated Paste Metals</b>										
<b>Blank (B4K0417-BLK1)</b>					Prepared: 11/04/2024 Analyzed: 11/05/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B4K0417-DUP1)</b>		<b>Source: E410995-01</b>				Prepared: 11/04/2024 Analyzed: 11/05/2024				
SAR	ND	0.0100	SAR		0.974				200	
Calcium PPM	9.88	10.0	mg/L		12.6			24.4	50	
Magnesium PPM	1.86	10.0	"		2.59			32.8	50	
Sodium PPM	10.4	10.0	"		14.5			32.9	50	

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4K0421 - Saturated Paste pH/EC**

**Blank (B4K0421-BLK1)**

Prepared: 11/04/2024 Analyzed: 11/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4K0421-DUP1)**

**Source: E410995-01**

Prepared: 11/04/2024 Analyzed: 11/05/2024

pH 8.47 pH Units 8.37 1.19 25

Specific Conductance (EC) 0.321 0.00500 mmhos/cm 0.341 6.10 25

Origins Laboratory

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



Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - Brown USX AA 03-23

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2711456 - SW846 3060A**

**BLANK (1205930893-BLK)**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	ND	0.353	mg/kg				-			U
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**LCS (1205930894-BKS)**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	3.82	0.379	mg/kg	3.79		101	80-120			
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**DUP (1205930895 D)**

**Source: 693781001**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	ND	0.294	mg/kg dry		<0.118		0-50	N/A	50	U
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**MS (1205930896 S)**

**Source: 693781001**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	1.45	0.294	mg/kg dry	2.94	<0.118	48	75-125			
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**DUP (1205930897 D)**

**Source: 693784001**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	ND	0.394	mg/kg dry		<0.158		0-50	N/A	50	U
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**MS (1205930898 S)**

**Source: 693784001**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	2.51	0.394	mg/kg dry	3.94	<0.158	62.6	75-125			
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**ILCS (1205930899-ILCS)**

Prepared: 11/27/2024 Analyzed: 12/03/2024

Hexavalent Chromium	5.90	0.269	mg/kg	5.42		109	80-120			
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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Alfred Garraffa  
Project Number: [none]  
Project: Noble - Brown USX AA 03-23

### Notes and Definitions

- U Result not detected above the detection limit
  - J Greater than the detection limit but less than the reporting limit
  - 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

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Jordan A. Bynon, Project Manager