



Eagle Environmental Consulting, LLC

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

December 06, 2024

**Project Name - Noble - CPC Ferguson Chewy  
UPRC T5N-R64W-S23L01 TB**

**Project Number - [none]**

Attached are your analytical results for Noble - CPC Ferguson Chewy UPRC T5N-R64W-S23L01 TB received by Origins Laboratory October 22, 2024. This project is associated with Origins project number E410712-01.

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 - CPC Ferguson Chewy UPRC  
T5N-R64W-S23L01 TB

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@0-2.5'	E410712-01	Soil	October 22, 2024 10:05	10/22/2024 15:52
Background-01@2.5-5'	E410712-02	Soil	October 22, 2024 10:05	10/22/2024 15:52
Background-01@5-7.5'	E410712-03	Soil	October 22, 2024 10:08	10/22/2024 15:52
Background-01@7.5-10'	E410712-04	Soil	October 22, 2024 10:08	10/22/2024 15:52
Background-01@17.5-20'	E410712-05	Soil	October 22, 2024 10:18	10/22/2024 15:52
Background-02@0-2.5'	E410712-06	Soil	October 22, 2024 10:45	10/22/2024 15:52
Background-02@2.5-5'	E410712-07	Soil	October 22, 2024 10:45	10/22/2024 15:52
Background-02@5-7.5'	E410712-08	Soil	October 22, 2024 10:48	10/22/2024 15:52
Background-02@7.5-10'	E410712-09	Soil	October 22, 2024 10:48	10/22/2024 15:52
Background-02@17.5-20'	E410712-10	Soil	October 22, 2024 11:00	10/22/2024 15:52
Background-03@0-2.5'	E410712-11	Soil	October 22, 2024 11:47	10/22/2024 15:52
Background-03@2.5-5'	E410712-12	Soil	October 22, 2024 11:47	10/22/2024 15:52
Background-03@5-7.5'	E410712-13	Soil	October 22, 2024 11:50	10/22/2024 15:52
Background-03@7.5-10'	E410712-14	Soil	October 22, 2024 11:50	10/22/2024 15:52

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
Project Number: [none]  
Project: Noble - CPC Ferguson Chewy UPRC  
T5N-R64W-S23L01 TB

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-03@17.5-20'	E410712-15	Soil	October 22, 2024 12:04	10/22/2024 15:52
Background-04@0-2.5'	E410712-16	Soil	October 22, 2024 12:48	10/22/2024 15:52
Background-04@2.5-5'	E410712-17	Soil	October 22, 2024 12:48	10/22/2024 15:52
Background-04@5-7.5'	E410712-18	Soil	October 22, 2024 12:51	10/22/2024 15:52
Background-04@7.5-10'	E410712-19	Soil	October 22, 2024 12:51	10/22/2024 15:52
Background-04@17.5-20'	E410712-20	Soil	October 22, 2024 13:01	10/22/2024 15:52
Background-05@0-2.5'	E410712-21	Soil	October 22, 2024 13:10	10/22/2024 15:52
Background-05@2.5-5'	E410712-22	Soil	October 22, 2024 13:10	10/22/2024 15:52
Background-05@5-7.5'	E410712-23	Soil	October 22, 2024 13:16	10/22/2024 15:52
Background-05@7.5-10'	E410712-24	Soil	October 22, 2024 13:16	10/22/2024 15:52
Background-05@17.5-20'	E410712-25	Soil	October 22, 2024 13:26	10/22/2024 15:52

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# ORIGINS LABORATORY

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

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

# ORIGINS

LABORATORY INC

ORIGINS FORM ORDER #

6410912

Page 1 of 5

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: CPC Ferguson Chewy UPRC

W=Water

Telephone Number: 303-933-0419

Project Number: 15N-KW-23 101 Fall Park

GW=Groundwater

Collect By: ALF

Invoice/Billing Info: ABLE / Bill to Dad

SL=Surface Water

Email Address: alfred.garraffa@eagleenv.com

Temp Received: 3.4

W=Waste Water

S=Soil SO=Solid O=Oil A=Air G=Gas U=Urinees H=H=Hydrochloric HMO=Mercuric H2SO4=Sulfuric NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis										Comments		
						As	Ca	Co	Cu	Fe	Mn	Ni	Pb	S	Zn		Other	
1	Palmer-010-15	10/21/24	1005	2	UVP	X	X	X	X	X	X	X	X	X	X	X	X	ES/SLC pH =
2	Palmer-010-15		1015	2		X	X	X	X	X	X	X	X	X	X	X	X	Substrate not prep
3	Palmer-010-15		1008	3		X	X	X	X	X	X	X	X	X	X	X	X	
4	Palmer-010-15		1008	3		X	X	X	X	X	X	X	X	X	X	X	X	
5	Palmer-010-15		1018	3		X	X	X	X	X	X	X	X	X	X	X	X	
6	Palmer-010-15		1015	2		X	X	X	X	X	X	X	X	X	X	X	X	
7	Palmer-010-15		1015	2		X	X	X	X	X	X	X	X	X	X	X	X	
8	Palmer-010-15		1018	3		X	X	X	X	X	X	X	X	X	X	X	X	
9	Palmer-010-15		1018	3		X	X	X	X	X	X	X	X	X	X	X	X	
10	Palmer-010-15		1100	3		X	X	X	X	X	X	X	X	X	X	X	X	

11725 Elk Place Denver, Co. 80021 | 303.433.3322 | origins@eagleenv.com | Temp Received - 3.4 Received On Ice?  Yes  No

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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**ORIGINS**  
LABORATORY

ORIGINS WORK ORDER #  
**4410712**

Page 3 of 3

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
							As	MS	
1	Baldpate 08-02	10/12/24	1:10	2	SW	SWP	✓	✓	EL SWP All =
2	Baldpate 08-02	1/19	2	1	SW	SWP	✓	✓	Standard for Fe
3	Baldpate 08-02	1/16	1	1	SW	SWP	✓	✓	
4	Baldpate 08-02	1/16	2	1	SW	SWP	✓	✓	
5	Baldpate 08-02	1/16	3	1	SW	SWP	✓	✓	
6	Baldpate 08-02	1/16	1	1	SW	SWP	✓	✓	M/S Needed
7									
8									
9									
10									

Requisitioned By: W. Hill Date: 10/21/24 Time: 1:52  
 Received By: [Signature] Date: 10/22/24 Time: 1:52

Turnaround Time  
 SAME DAY  
 24 Hr  
 48 Hr  
 72 Hr  
 Standard

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave Ste 100  
 Phone Number: 303-433-0477  
 Email Address: algarraffa@eagle-ec.com  
 Project Manager: Alfred Garraffa  
 Project Name: CPC Ferguson Chewy UPRC  
 Project Number: [None]  
 Collected By: CGM  
 Invoice Billing Info: Noble / B.I.T. on  
 Key: W=Water  
GW=Groundwater  
SW=Surface Water  
MW=Moose Water  
L=Liquid

11725 Elk Place Denver, Co 80221 | 303.433.1322 | originslab.com | Temp Received - 3, U Received On Ice?  Yes  No

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 Project Number: [none]  
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 T5N-R64W-S23L01 TB

Origins Laboratory

### Sample Receipt Checklist

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

Origins Work Order: 6410712

Client: Eagle

Client Project ID: CPC Ferguson

Checklist Completed by: JSH / US

Shipped Via: TID

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

Date/time completed: 10/23/14

Airbill #: N/A

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

Cooler Number/Temperature: 1 3.4 °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> ?	/			
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 < 3 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)			/	
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: [Signature] (Project Manager)

10/25/14  
 Date/Time Reviewed

Origins Laboratory

[Signature]

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Jordan A. Bynon, Project Manager



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 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@0-2.5'**  
**10/22/2024 10:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0993	mg/L	1	B4J2517	10/25/2024	10/28/2024		
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.974	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024		
Magnesium	ND	0.823	"	"	"	"	"		
Sodium	ND	0.435	"	"	"	"	"		

**pH in Soil by 9045D**

pH	7.14		pH Units	1	B4J2819	10/28/2024	10/29/2024		
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**SAR by 20B Saturated Paste**

SAR	0.286	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024		
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.340	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024		
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Origins Laboratory

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@2.5-5'**  
**10/22/2024 10:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.39		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.558	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0855	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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Alfred Garraffa  
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@5-7.5'**  
**10/22/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.102	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.22			pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.298		0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0700		0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.89		0.282	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	41.1		9.74	"	"	"	"	"	
Cadmium	ND		0.0974	"	"	"	"	"	

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 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@5-7.5'**  
**10/22/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-03 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.74	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.97</b>		0.974	"	"	"	"	"	
Nickel	<b>3.91</b>		0.974	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	ND		0.0974	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.115	0.288	mg/kg dry	1	2710617	11/22/2024	11/26/2024	hu
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@7.5-10'**  
**10/22/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.28		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.198	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.103	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.948	0.250	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	25.4	8.61	"	"	"	"	"	
Cadmium	ND	0.0861	"	"	"	"	"	

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 8000 W 44th Ave  
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@7.5-10'**  
**10/22/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-04 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.61	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>2.53</b>		0.861	"	"	"	"	"	
Nickel	<b>1.88</b>		0.861	"	"	"	"	"	
Selenium	ND		0.224	"	"	"	"	"	
Silver	ND		0.0861	"	"	"	"	"	
Zinc	ND		31.9	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.161	0.402	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@17.5-20'**  
**10/22/2024 10:18:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0993	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.57			pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.492		0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0566		0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.21		0.245	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	26.2		8.46	"	"	"	"	"	
Cadmium	ND		0.0846	"	"	"	"	"	

Origins Laboratory

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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-01@17.5-20'**  
**10/22/2024 10:18:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-05 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.46	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>3.49</b>		0.846	"	"	"	"	"	
Nickel	<b>2.16</b>		0.846	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0846	"	"	"	"	"	
Zinc	ND		31.3	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.121	0.301	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@0-2.5'**  
**10/22/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.102	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	6.08		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.367	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.208	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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Jordan A. Bynon, Project Manager



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 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@2.5-5'**  
**10/22/2024 10:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.01		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.209	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0656	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@5-7.5'**  
**10/22/2024 10:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.24		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.256	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0352	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.80	0.253	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	44.6	8.73	"	"	"	"	"	
Cadmium	ND	0.0873	"	"	"	"	"	

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@5-7.5'**  
**10/22/2024 10:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-08 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.73	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	5.18		0.873	"	"	"	"	"	
Nickel	3.78		0.873	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0873	"	"	"	"	"	
Zinc	37.5		32.3	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.154	0.386	mg/kg dry	1	2710617	11/22/2024	11/26/2024	hu
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@7.5-10'**  
**10/22/2024 10:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-09 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.25		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.206	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0650	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.83	0.273	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	29.6	9.40	"	"	"	"	"	
Cadmium	ND	0.0940	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@7.5-10'**  
**10/22/2024 10:48:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-09 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.40	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.65</b>		0.940	"	"	"	"	"	
Nickel	<b>3.27</b>		0.940	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0940	"	"	"	"	"	
Zinc	ND		34.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.137	0.343	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@17.5-20'**  
**10/22/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-10 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.101	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.44			pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.450		0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0711		0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.00		0.247	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	23.5		8.50	"	"	"	"	"	
Cadmium	ND		0.0850	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-02@17.5-20'**  
**10/22/2024 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-10 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.50	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	2.70		0.850	"	"	"	"	"	
Nickel	2.05		0.850	"	"	"	"	"	
Selenium	ND		0.221	"	"	"	"	"	
Silver	ND		0.0850	"	"	"	"	"	
Zinc	ND		31.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.104	0.260	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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**Background-03@0-2.5'**  
**10/22/2024 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.20	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	6.17		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.443	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.660	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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Jordan A. Bynon, Project Manager



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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-03@2.5-5'**  
**10/22/2024 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-12 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0985	mg/L	1	B4J2517	10/25/2024	10/28/2024		
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024		
Magnesium	ND	0.823	"	"	"	"	"		
Sodium	ND	0.435	"	"	"	"	"		

**pH in Soil by 9045D**

pH	7.00		pH Units	1	B4J2819	10/28/2024	10/29/2024		
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**SAR by 20B Saturated Paste**

SAR	0.287	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024		
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0901	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024		
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 T5N-R64W-S23L01 TB

**Background-03@5-7.5'**  
**10/22/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-13 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0984	mg/L	1	B4J2517	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.21			pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.230		0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0603		0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.89		0.251	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	41.6		8.66	"	"	"	"	"	
Cadmium	ND		0.0866	"	"	"	"	"	

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Alfred Garraffa  
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 T5N-R64W-S23L01 TB

**Background-03@5-7.5'**  
**10/22/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-13 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.66	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>5.14</b>		0.866	"	"	"	"	"	
Nickel	<b>3.96</b>		0.866	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	
Silver	ND		0.0866	"	"	"	"	"	
Zinc	ND		32.1	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.0965	0.241	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-03@7.5-10'**  
**10/22/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-14 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0985	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.05			pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.241		0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.121		0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.77		0.262	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	37.2		9.03	"	"	"	"	"	
Cadmium	ND		0.0903	"	"	"	"	"	

Origins Laboratory

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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-03@7.5-10'**  
**10/22/2024 11:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-14 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.03	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.60</b>		0.903	"	"	"	"	"	
Nickel	<b>2.96</b>		0.903	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		33.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.146	0.366	mg/kg dry	1	2710620	11/22/2024	11/25/2024	hu
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Origins Laboratory

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-03@17.5-20'**  
**10/22/2024 12:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-15 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.30		pH Units	1	B4J2819	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.999	0.0100	SAR	1	B4J2812	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0649	0.00500	mmhos/cm	1	B4J2819	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.758	0.244	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	33.7	8.42	"	"	"	"	"	
Cadmium	ND	0.0842	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-03@17.5-20'**  
**10/22/2024 12:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-15 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.42	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>2.46</b>		0.842	"	"	"	"	"	
Nickel	<b>2.56</b>		0.842	"	"	"	"	"	
Selenium	ND		0.219	"	"	"	"	"	
Silver	ND		0.0842	"	"	"	"	"	
Zinc	ND		31.2	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.123	0.307	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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Alfred Garraffa  
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-04@0-2.5'**  
**10/22/2024 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-16 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.838	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	0.791	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	6.24		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.970	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.329	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-04@2.5-5'**  
**10/22/2024 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-17 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.19		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.326	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.103	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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 T5N-R64W-S23L01 TB

**Background-04@5-7.5'**  
**10/22/2024 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-18 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.32			pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.318		0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0908		0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.75		0.265	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	43.4		9.13	"	"	"	"	"	
Cadmium	ND		0.0913	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
 Project Number: [none]  
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 T5N-R64W-S23L01 TB

**Background-04@5-7.5'**  
**10/22/2024 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-18 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.13	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>6.71</b>		0.913	"	"	"	"	"	
Nickel	<b>4.05</b>		0.913	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.0913	"	"	"	"	"	
Zinc	ND		33.8	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.103	0.258	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-04@7.5-10'**  
**10/22/2024 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-19 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.711	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.03		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.295	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.200	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.58	0.254	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	35.0	8.75	"	"	"	"	"	
Cadmium	ND	0.0875	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
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 T5N-R64W-S23L01 TB

**Background-04@7.5-10'**  
**10/22/2024 12:51:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-19 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.75	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.57</b>		0.875	"	"	"	"	"	
Nickel	<b>3.08</b>		0.875	"	"	"	"	"	
Selenium	ND		0.227	"	"	"	"	"	
Silver	ND		0.0875	"	"	"	"	"	
Zinc	ND		32.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.123	0.309	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-04@17.5-20'**  
**10/22/2024 1:01:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-20 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.58		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.837	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.125	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	0.915	0.251	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	30.1	8.67	"	"	"	"	"	
Cadmium	ND	0.0867	"	"	"	"	"	

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-04@17.5-20'**

**10/22/2024 1:01:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E410712-20 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.67	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	2.73		0.867	"	"	"	"	"	
Nickel	2.15		0.867	"	"	"	"	"	
Selenium	ND		0.225	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	ND		32.1	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.137	0.343	mg/kg dry	1	2710617	11/22/2024	11/26/2024	HU
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 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@0-2.5'**  
**10/22/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-21 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	6.09		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.247	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.253	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@2.5-5'**  
**10/22/2024 1:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-22 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.14		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.378	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0873	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@5-7.5'**  
**10/22/2024 1:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-23 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	0.621	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.33		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.393	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.198	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.24	0.243	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	31.7	8.39	"	"	"	"	"	
Cadmium	ND	0.0839	"	"	"	"	"	

Origins Laboratory

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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@5-7.5'**

**10/22/2024 1:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E410712-23 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.39	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.04</b>		0.839	"	"	"	"	"	
Nickel	<b>2.90</b>		0.839	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	
Silver	ND		0.0839	"	"	"	"	"	
Zinc	ND		31.1	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.147	0.367	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@7.5-10'**

**10/22/2024 1:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E410712-24 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.101	mg/L	1	B4J2518	10/25/2024	10/28/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	7.16		pH Units	1	B4J2820	10/28/2024	10/29/2024
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**SAR by 20B Saturated Paste**

SAR	0.327	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.144	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024
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**Table 915 metals by EPA 6020B**

Arsenic	1.30	0.254	mg/kg	10	B4J2335	10/23/2024	10/28/2024
Barium	35.7	8.75	"	"	"	"	"
Cadmium	ND	0.0875	"	"	"	"	"

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Jordan A. Bynon, Project Manager



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Alfred Garraffa  
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 T5N-R64W-S23L01 TB

**Background-05@7.5-10'**

**10/22/2024 1:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E410712-24 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		8.75	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.52</b>		0.875	"	"	"	"	"	
Nickel	<b>3.30</b>		0.875	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0875	"	"	"	"	"	
Zinc	ND		32.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.117	0.292	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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Origins Laboratory

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Background-05@17.5-20'**  
**10/22/2024 1:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory**  
**E410712-25 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0988	mg/L	1	B4J2518	10/25/2024	10/28/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND	0.499	meq/L	10	[CALC]	10/28/2024	10/29/2024	
Magnesium	ND	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.70		pH Units	1	B4J2820	10/28/2024	10/29/2024	
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**SAR by 20B Saturated Paste**

SAR	0.657	0.0100	SAR	1	B4J2813	10/28/2024	10/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0972	0.00500	mmhos/cm	1	B4J2820	10/28/2024	10/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.25	0.263	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Barium	36.9	9.05	"	"	"	"	"	
Cadmium	ND	0.0905	"	"	"	"	"	

Origins Laboratory

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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
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 T5N-R64W-S23L01 TB

**Background-05@17.5-20'**

**10/22/2024 1:26:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory  
 E410712-25 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.05	mg/kg	10	B4J2335	10/23/2024	10/28/2024	
Lead	<b>4.56</b>		0.905	"	"	"	"	"	
Nickel	<b>2.53</b>		0.905	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	ND		33.5	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.0843	0.211	mg/kg dry	1	2710620	11/22/2024	11/25/2024	HU
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Origins Laboratory

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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**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
<b>Batch B4J2335 - EPA 3050B</b>										
<b>Blank (B4J2335-BLK1)</b>										
					Prepared: 10/23/2024 Analyzed: 10/28/2024					
Arsenic	ND	0.290	mg/kg							
<b>LCS (B4J2335-BS1)</b>										
					Prepared: 10/23/2024 Analyzed: 10/28/2024					
Arsenic	5.58	0.290	mg/kg	5.00		112	80-120			
<b>Matrix Spike (B4J2335-MS1)</b>										
		<b>Source: E410707-04</b>			Prepared: 10/23/2024 Analyzed: 10/28/2024					
Arsenic	6.52	0.243	mg/kg	4.19	2.25	102	75-125			
<b>Matrix Spike Dup (B4J2335-MSD1)</b>										
		<b>Source: E410707-04</b>			Prepared: 10/23/2024 Analyzed: 10/28/2024					
Arsenic	6.76	0.246	mg/kg	4.23	2.25	107	75-125	3.64	20	

Origins Laboratory

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Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Classical Chemistry Parameters - 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 B4J2517 - DTPA Sorbitol Preparation**

**Blank (B4J2517-BLK1)**

Prepared: 10/25/2024 Analyzed: 10/28/2024

Boron ND 0.100 mg/L

**Duplicate (B4J2517-DUP1)**

**Source: E410712-01**

Prepared: 10/25/2024 Analyzed: 10/28/2024

Boron 0.0837 0.0987 mg/L

0.0866 3.38 50

**Batch B4J2518 - DTPA Sorbitol Preparation**

**Blank (B4J2518-BLK1)**

Prepared: 10/25/2024 Analyzed: 10/28/2024

Boron ND 0.100 mg/L

**Duplicate (B4J2518-DUP1)**

**Source: E410712-14**

Prepared: 10/25/2024 Analyzed: 10/28/2024

Boron 0.0332 0.101 mg/L

0.0339 2.07 50

**Batch B4J2812 - Saturated Paste Metals**

**Blank (B4J2812-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B4J2812-DUP1)**

**Source: E410712-01**

Prepared: 10/28/2024 Analyzed: 10/29/2024

SAR ND 0.0100 SAR

0.286 200

Calcium PPM 12.1 10.0 mg/L

19.5 46.7 50

Magnesium PPM 3.89 10.0 "

5.05 26.0 50

Sodium PPM 6.05 10.0 "

5.48 9.89 50

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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Classical Chemistry Parameters - 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 B4J2813 - Saturated Paste Metals**

**Blank (B4J2813-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

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

**Duplicate (B4J2813-DUP1)**

**Source: E410712-16**

Prepared: 10/28/2024 Analyzed: 10/29/2024

Calcium PPM	17.2	10.0	mg/L		16.8		2.35		50	
SAR	ND	0.0100	SAR		0.970				200	
Magnesium PPM	6.26	10.0	mg/L		5.98		4.58		50	
Sodium PPM	17.8	10.0	"		18.2		1.89		50	

Origins Laboratory

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Jordan A. Bynon, Project Manager



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 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**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 B4J2819 - Saturated Paste pH/EC**

**Blank (B4J2819-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4J2819-DUP1)**

**Source: E410712-01**

Prepared: 10/28/2024 Analyzed: 10/29/2024

pH	6.68		pH Units	7.14			6.66	25		
Specific Conductance (EC)	0.257	0.00500	mmhos/cm	0.340			27.9	25	QR-DUP	

**Batch B4J2820 - Saturated Paste pH/EC**

**Blank (B4J2820-BLK1)**

Prepared: 10/28/2024 Analyzed: 10/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4J2820-DUP1)**

**Source: E410712-16**

Prepared: 10/28/2024 Analyzed: 10/29/2024

Specific Conductance (EC)	0.366	0.00500	mmhos/cm	0.329			10.6	25		
pH	6.25		pH Units	6.24			0.160	25		

Origins Laboratory

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Alfred Garraffa  
 Project Number: [none]  
 Project: Noble - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Total Metals 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 2710620 - SW846 3060A**

**BLANK (1205929067-BLK)**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	ND	0.309	mg/kg				-			U
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**LCS (1205929068-BKS)**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	3.06	0.305	mg/kg	3.05		100	80-120			
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**DUP (1205929069 D)**

**Source: E410712-14**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	ND	0.278	mg/kg dry		<0.111		0-50	N/A	50	hU
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**MS (1205929070 S)**

**Source: E410712-14**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	3.22	0.333	mg/kg dry	3.33	<0.133	94.2	75-125			h
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**DUP (1205929071 D)**

**Source: 692164002**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	ND	0.337	mg/kg dry		<0.135		0-50	N/A	50	U
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**MS (1205929072 S)**

**Source: 692164002**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	2.70	0.341	mg/kg dry	3.41	<0.137	78	75-125			
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**ILCS (1205929073-ILCS)**

Prepared: 11/22/2024 Analyzed: 11/25/2024

Hexavalent Chromium	7.46	0.344	mg/kg	6.92		108	80-120			
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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 - CPC Ferguson Chewy UPRC  
 T5N-R64W-S23L01 TB

**Total Metals 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 2710617 - SW846 3060A**

**BLANK (1205929054-BLK)**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	ND	0.266	mg/kg				-			U
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**LCS (1205929055-BKS)**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	3.63	0.358	mg/kg	3.58		101	80-120			
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**DUP (1205929056 D)**

**Source: E410712-03**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	ND	0.319	mg/kg dry		<0.128		0-50	N/A	50	hU
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**MS (1205929057 S)**

**Source: E410712-03**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	3.44	0.360	mg/kg dry	3.60	<0.144	94.1	75-125			h
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**DUP (1205929058 D)**

**Source: 694413003**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	ND	0.370	mg/kg dry		<0.148		0-50	N/A	50	hU
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**MS (1205929059 S)**

**Source: 694413003**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	3.08	0.449	mg/kg dry	4.49	<0.180	68	75-125			h
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**ILCS (1205929248-ILCS)**

Prepared: 11/22/2024 Analyzed: 11/26/2024

Hexavalent Chromium	8.02	0.361	mg/kg	7.24		111	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 - CPC Ferguson Chewy UPRC  
T5N-R64W-S23L01 TB

### Notes and Definitions

U Result not detected above the detection limit

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

hU [Undefined]

h Preparation or preservation holding time was exceeded

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