



March 13, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Frank CC #7-19

Project Number - [none]

Attached are your analytical results for Noble - Frank CC #7-19 received by Origins Laboratory, Inc. February 22, 2024. This project is associated with Origins project number Y402568-01.

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

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

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

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

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

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



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@6'	Y402568-01	Soil	February 22, 2024 14:06	02/22/2024 17:01
WH-SS-02@6'	Y402568-02	Soil	February 22, 2024 14:08	02/22/2024 17:01
WH-SS-03@6'	Y402568-03	Soil	February 22, 2024 14:10	02/22/2024 17:01
WH-SS-04@6'	Y402568-04	Soil	February 22, 2024 14:12	02/22/2024 17:01
WH-FS-01@7'	Y402568-05	Soil	February 22, 2024 14:14	02/22/2024 17:01
Background-01@2'	Y402568-06	Soil	February 22, 2024 14:16	02/22/2024 17:01

Origins Laboratory, Inc.



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# ORIGINS

LABORATORY, INC

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19


Origins Laboratory F-012207-01-R1  
 Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 1402568 Client: Eagle  
 Client Project ID: Frank CC #7-19  
 Checklist Completed by: JBN Shipped Via: FUP  
 Date/time completed: 2/23/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 100 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C  
 Thermometer ID: 100A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for sub-contracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2, NaOH, ZnAc, NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/26/24

Origins Laboratory, Inc.  


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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-01@6'**  
**2/22/2024 2:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.01		0.0998	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2701	02/27/2024	03/01/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.4 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0194		0.00200	mg/kg	1	B4B2411	02/24/2024	02/25/2024	
1,3,5-Trimethylbenzene	0.00892		0.00200	"	"	"	"	"	
Benzene	0.00462		0.00200	"	"	"	"	"	
Ethylbenzene	0.00952		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.0426		0.00200	"	"	"	"	"	
Xylenes, total	0.117		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.719		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130	"	"	"	"	"	
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-01@6'**  
**2/22/2024 2:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B4B24 11	02/24/2024	02/25/2024	
Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	11.2		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	4.66		0.823	"	"	"	"	"	
Sodium	12.7		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.012		0.002	mg/kg	1	B4B2822	02/28/2024	02/29/2024	
2-Methylnaphthalene	0.026		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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**WH-SS-01@6'**  
**2/22/2024 2:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.21			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**


SAR	4.51		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.32		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.45		0.289	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
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**WH-SS-01@6'**  
**2/22/2024 2:06:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	130		9.96	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Cadmium	0.277		0.0996	"	"	"	"	"	"
Copper	15.0		9.96	"	"	"	"	"	"
Lead	18.8		0.996	"	"	"	"	"	"
Nickel	12.6		0.996	"	"	"	"	"	"
Selenium	0.409		0.259	"	"	"	"	"	"
Silver	ND		0.0996	"	"	"	"	"	"
Zinc	82.6		36.8	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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 8000 W 44th Ave  
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-02@6'**  
**2/22/2024 2:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.07		0.0983	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2701	02/27/2024	03/01/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 66.9% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00356		0.00200	mg/kg	1	B4B2411	02/24/2024	02/25/2024	
1,3,5-Trimethylbenzene	0.00206		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00358		0.00200	"	"	"	"	"	
Xylenes, total	0.0107		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 111% 70-130 " " " "

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-02@6'**  
**2/22/2024 2:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.4 %		70-130			B4B24 11	02/24/2024	02/25/2024	
Surrogate: 4-Bromofluorobenzene	98.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.60		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	1.26		0.823	"	"	"	"	"	
Sodium	9.58		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.011		0.002	mg/kg	1	B4B2822	02/28/2024	02/29/2024	
2-Methylnaphthalene	0.021		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-02@6'**  
**2/22/2024 2:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**


SAR	6.89		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.38		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.26		0.260	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-02@6'**  
**2/22/2024 2:08:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-02 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	207		8.97	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Cadmium	0.299		0.0897	"	"	"	"	"	"
Copper	17.2		8.97	"	"	"	"	"	"
Lead	30.1		0.897	"	"	"	"	"	"
Nickel	13.8		0.897	"	"	"	"	"	"
Selenium	0.440		0.233	"	"	"	"	"	"
Silver	0.173		0.0897	"	"	"	"	"	"
Zinc	91.6		33.2	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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**WH-SS-03@6'**  
**2/22/2024 2:10:00PM**

**Origins Laboratory, Inc.**  
**Y402568-03 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Boron (DTPA Sorbitol)**

Boron	0.825		0.100	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2701	02/27/2024	03/01/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	64.6 %		50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2411	02/24/2024	02/25/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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Andrew Newberry  
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**WH-SS-03@6'**  
**2/22/2024 2:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4B24 11	02/24/2024	02/25/2024	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	4.56		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	2.32		0.823	"	"	"	"	"	
Sodium	3.51		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-03@6'**  
**2/22/2024 2:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-03 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.09			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**

SAR	1.89		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.11		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-03@6'**  
**2/22/2024 2:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.47		0.286	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Barium	142		9.86	"	"	"	"	"	"
Cadmium	0.378		0.0986	"	"	"	"	"	"
Copper	16.4		9.86	"	"	"	"	"	"
Lead	35.1		0.986	"	"	"	"	"	"
Nickel	12.8		0.986	"	"	"	"	"	"
Selenium	0.349		0.256	"	"	"	"	"	"
Silver	ND		0.0986	"	"	"	"	"	"
Zinc	91.2		36.5	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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Andrew Newberry  
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 Project: Noble - Frank CC #7-19

**WH-SS-04@6'**  
**2/22/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.991		0.101	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2701	02/27/2024	03/01/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	63.1%		50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2411	02/24/2024	02/25/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-04@6'**  
**2/22/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4B24 11	02/24/2024	02/25/2024	
Surrogate: Toluene-d8	98.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.82		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	1.76		0.823	"	"	"	"	"	
Sodium	3.13		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-SS-04@6'**  
**2/22/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-04 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130						
Surrogate: Anthracene-d10	93.7 %		60-130						
Surrogate: Pyrene-d10	104 %		60-130						
Surrogate: Benzo (a) pyrene-d12	105 %		60-130						

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**

SAR	1.87		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.916		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

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Andrew Newberry  
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 Project: Noble - Frank CC #7-19

**WH-SS-04@6'**  
**2/22/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.57		0.244	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Barium	164		8.41	"	"	"	"	"	"
Cadmium	0.270		0.0841	"	"	"	"	"	"
Copper	15.5		8.41	"	"	"	"	"	"
Lead	16.1		0.841	"	"	"	"	"	"
Nickel	13.1		0.841	"	"	"	"	"	"
Selenium	0.385		0.219	"	"	"	"	"	"
Silver	ND		0.0841	"	"	"	"	"	"
Zinc	91.4		31.1	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-FS-01@7'**  
**2/22/2024 2:14:00PM**

**Origins Laboratory, Inc.**  
**Y402568-05 (Soil)**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Boron (DTPA Sorbitol)**

Boron	1.02		0.101	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2701	02/27/2024	03/01/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 63.5% 50-150 " " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00472		0.00200	mg/kg	1	B4B2411	02/24/2024	02/25/2024	
1,3,5-Trimethylbenzene	0.00274		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	0.00286		0.00200	"	"	"	"	"	
Xylenes, total	0.0132		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104% 70-130 " " " "

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-FS-01@7'**  
**2/22/2024 2:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.2 %		70-130			B4B24 11	02/24/2024	02/25/2024	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.86		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	1.72		0.823	"	"	"	"	"	
Sodium	3.68		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-FS-01@7'**  
**2/22/2024 2:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4B2822	02/28/2024	02/29/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.24			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**


SAR	2.20		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.961		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.70		0.270	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
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Origins Laboratory, Inc.  


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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**WH-FS-01@7'**  
**2/22/2024 2:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-05 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	190		9.30	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Cadmium	0.264		0.0930	"	"	"	"	"	"
Copper	15.9		9.30	"	"	"	"	"	"
Lead	23.6		0.930	"	"	"	"	"	"
Nickel	13.5		0.930	"	"	"	"	"	"
Selenium	0.409		0.242	"	"	"	"	"	"
Silver	0.142		0.0930	"	"	"	"	"	"
Zinc	87.4		34.4	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**Background-01@2'**  
**2/22/2024 2:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	2.39		0.101	mg/L	1	B4B2611	02/26/2024	03/01/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	24.1		0.499	meq/L	10	[CALC]	02/26/2024	02/29/2024	
Magnesium	15.2		0.823	"	"	"	"	"	
Sodium	29.8		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.09			pH Units	1	B4B2614	02/26/2024	02/27/2024	
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**SAR by 20B Saturated Paste**

SAR	6.73		0.0100	SAR	1	B4B2605	02/26/2024	02/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.94		0.00500	mmhos/cm	1	B4B2614	02/26/2024	02/27/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.81		0.244	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Barium	148		8.40	"	"	"	"	"	
Cadmium	0.239		0.0840	"	"	"	"	"	
Copper	14.6		8.40	"	"	"	"	"	

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**Background-01@2'**  
**2/22/2024 2:16:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402568-06 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	11.8		0.840	mg/kg	10	B4B2349	02/23/2024	03/10/2024	
Nickel	13.0		0.840	"	"	"	"	"	"
Selenium	0.313		0.218	"	"	"	"	"	"
Silver	ND		0.0840	"	"	"	"	"	"
Zinc	82.0		31.1	"	"	"	"	"	"

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737330	02/22/2024	03/08/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2411 - EPA 5030 (soil)

Blank (B4B2411-BLK1)

Prepared: 02/24/2024 Analyzed: 02/25/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2411 - EPA 5030 (soil)

LCS (B4B2411-BS1)

Prepared: 02/24/2024 Analyzed: 02/25/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	102	70-130				
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100	104	70-130				
Benzene	0.0986	0.00200	"	0.100	98.6	70-130				
Ethylbenzene	0.104	0.00200	"	0.100	104	70-130				
Naphthalene	0.113	0.00380	"	0.100	113	70-130				
Toluene	0.103	0.00200	"	0.100	103	70-130				
o-Xylene	0.0978	0.00200	"	0.100	97.8	70-130				
m,p-Xylene	0.206	0.00400	"	0.200	103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.5	70-130				
Surrogate: Toluene-d8	0.13		"	0.125	100	70-130				
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.7	70-130				

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2411 - EPA 5030 (soil)

Matrix Spike (B4B2411-MS1)

Source: Y402549-01

Prepared: 02/24/2024 Analyzed: 02/25/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	0.0246	82.9	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	0.00464	104	70-130			
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	0.00150	106	70-130			
Naphthalene	0.105	0.00380	"	0.100	0.00342	102	70-130			
Toluene	0.103	0.00200	"	0.100	0.00154	101	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	0.00286	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2411 - EPA 5030 (soil)

Matrix Spike Dup (B4B2411-MSD1)

Source: Y402549-01

Prepared: 02/24/2024 Analyzed: 02/25/2024

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	0.0246	90.0	70-130	6.41	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	0.00464	96.6	70-130	6.59	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	1.55	20	
Ethylbenzene	0.101	0.00200	"	0.100	0.00150	99.3	70-130	6.51	20	
Naphthalene	0.113	0.00380	"	0.100	0.00342	109	70-130	6.50	20	
Toluene	0.0993	0.00200	"	0.100	0.00154	97.8	70-130	3.52	20	
o-Xylene	0.0938	0.00200	"	0.100	ND	93.8	70-130	6.92	20	
m,p-Xylene	0.200	0.00400	"	0.200	0.00286	98.7	70-130	7.21	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2701 - EPA 3550B

Blank (B4B2701-BLK1)

Prepared: 02/27/2024 Analyzed: 03/01/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.1	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2701 - EPA 3550B

LCS (B4B2701-BS1)

Prepared: 02/27/2024 Analyzed: 03/01/2024

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	914	200	"	1000		91.4	70-130			
Surrogate: o-Terphenyl	37		"	49.8		74.2	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2701 - EPA 3550B

Matrix Spike (B4B2701-MS1)

Source: Y402568-01

Prepared: 02/27/2024 Analyzed: 03/01/2024

Diesel (C10-C28)	830	50.0	mg/kg	1000	ND	83.0	70-130			
Residual Range Organics (C28-C40)	883	200	"	1000	ND	88.3	70-130			
Surrogate: o-Terphenyl	34		"	49.8		67.5	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2701 - EPA 3550B

Matrix Spike Dup (B4B2701-MSD1)

Source: Y402568-01

Prepared: 02/27/2024 Analyzed: 03/01/2024

Diesel (C10-C28)	844	50.0	mg/kg	1000	ND	84.4	70-130	1.60	35	
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130	2.67	35	
Surrogate: o-Terphenyl	40		"	49.8		79.9	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2349 - EPA 3050B**

**Blank (B4B2349-BLK1)**

Prepared: 02/23/2024 Analyzed: 03/10/2024

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 (B4B2349-BS1)**

Prepared: 02/23/2024 Analyzed: 03/10/2024

Arsenic	5.78	0.290	mg/kg	5.00		116	80-120			
Barium	572	10.0	"	500		114	80-120			
Cadmium	4.58	0.100	"	5.00		91.6	80-120			
Copper	49.4	10.0	"	50.0		98.8	80-120			
Lead	5.06	1.00	"	5.00		101	80-120			
Nickel	5.88	1.00	"	5.00		118	80-120			
Selenium	9.22	0.260	"	9.50		97.1	80-120			
Silver	5.84	0.100	"	5.00		117	80-120			
Zinc	47.7	37.0	"	50.0		95.4	80-120			

**Matrix Spike (B4B2349-MS1)**

**Source: Y402575-01**

Prepared: 02/23/2024 Analyzed: 03/10/2024

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2349 - EPA 3050B

**Matrix Spike (B4B2349-MS1)**

Source: Y402575-01

Prepared: 02/23/2024 Analyzed: 03/10/2024

Arsenic	7.18	0.274	mg/kg	4.73	2.13	107	75-125			
Barium	549	9.45	"	473	50.0	106	75-125			
Cadmium	5.26	0.0945	"	4.73	0.0684	110	75-125			
Copper	55.6	9.45	"	47.3	3.26	111	75-125			
Lead	8.23	0.945	"	4.73	3.72	95.4	75-125			
Nickel	8.82	0.945	"	4.73	4.00	102	75-125			
Selenium	10.7	0.246	"	8.98	0.0614	118	75-125			
Silver	5.04	0.0945	"	4.73	0.0188	106	75-125			
Zinc	80.2	35.0	"	47.3	21.5	124	75-125			

**Matrix Spike Dup (B4B2349-MSD1)**

Source: Y402575-01

Prepared: 02/23/2024 Analyzed: 03/10/2024

Arsenic	6.63	0.258	mg/kg	4.45	2.13	101	75-125	7.99	20	
Barium	520	8.91	"	445	50.0	106	75-125	5.39	20	
Cadmium	4.90	0.0891	"	4.45	0.0684	108	75-125	7.12	20	
Copper	50.7	8.91	"	44.5	3.26	106	75-125	9.29	20	
Lead	8.68	0.891	"	4.45	3.72	111	75-125	5.37	20	
Nickel	8.34	0.891	"	4.45	4.00	97.4	75-125	5.63	20	
Selenium	10.3	0.232	"	8.46	0.0614	121	75-125	3.98	20	
Silver	4.68	0.0891	"	4.45	0.0188	105	75-125	7.38	20	
Zinc	77.7	33.0	"	44.5	21.5	126	75-125	3.18	20	QM-07

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Jordan A. Bynon, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2822 - EPA 3580**

**Blank (B4B2822-BLK1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.0	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4B2822-BS1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	0.178	0.002	mg/kg	0.200		89.2	70-130			
2-Methylnaphthalene	0.177	0.002	"	0.200		88.4	70-130			
Acenaphthene	0.179	0.020	"	0.200		89.4	70-130			
Anthracene	0.179	0.020	"	0.200		89.7	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2822 - EPA 3580**

**LCS (B4B2822-BS1)**

Prepared: 02/28/2024 Analyzed: 02/29/2024

Benzo (a) anthracene	0.191	0.005	mg/kg	0.200		95.7	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		93.2	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.5	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200		91.5	70-130			
Benzo (k) fluoranthene	0.178	0.020	"	0.200		88.9	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.185	0.020	"	0.200		92.4	70-130			
Fluoranthene	0.165	0.020	"	0.200		82.7	70-130			
Fluorene	0.182	0.020	"	0.200		91.1	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		95.0	70-130			
Naphthalene	0.184	0.002	"	0.200		92.1	70-130			
Phenanthrene	0.166	0.020	"	0.200		83.2	70-130			
Pyrene	0.176	0.020	"	0.200		87.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.5	60-130			
Surrogate: Pyrene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**Matrix Spike (B4B2822-MS1)**

Source: Y402568-01

Prepared: 02/28/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	0.012	92.7	70-130			
2-Methylnaphthalene	0.225	0.002	"	0.200	0.026	99.5	70-130			
Acenaphthene	0.183	0.020	"	0.200	0.002	90.8	70-130			
Anthracene	0.169	0.020	"	0.200	ND	84.7	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.9	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200	ND	95.3	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200	ND	93.6	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.4	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2822 - EPA 3580**

**Matrix Spike (B4B2822-MS1)**

**Source: Y402568-01**

Prepared: 02/28/2024 Analyzed: 02/29/2024

Benzo (k) fluoranthene	0.171	0.020	mg/kg	0.200	ND	85.5	70-130			
Chrysene	0.185	0.020	"	0.200	0.0005	92.1	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200	ND	93.7	70-130			
Fluoranthene	0.166	0.020	"	0.200	ND	83.2	70-130			
Fluorene	0.183	0.020	"	0.200	0.002	90.1	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130			
Naphthalene	0.193	0.002	"	0.200	0.008	92.3	70-130			
Phenanthrene	0.173	0.020	"	0.200	0.003	85.1	70-130			
Pyrene	0.168	0.020	"	0.200	0.0006	83.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**Matrix Spike Dup (B4B2822-MSD1)**

**Source: Y402568-01**

Prepared: 02/28/2024 Analyzed: 02/29/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.012	88.1	70-130	4.76	20	
2-Methylnaphthalene	0.201	0.002	"	0.200	0.026	87.5	70-130	11.3	20	
Acenaphthene	0.179	0.020	"	0.200	0.002	88.4	70-130	2.63	20	
Anthracene	0.169	0.020	"	0.200	ND	84.7	70-130	0.00685	20	
Benzo (a) anthracene	0.179	0.005	"	0.200	0.001	89.0	70-130	5.36	20	
Benzo (a) pyrene	0.180	0.020	"	0.200	ND	90.2	70-130	5.48	20	
Benzo (b) fluoranthene	0.174	0.020	"	0.200	ND	87.0	70-130	7.35	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	ND	89.8	70-130	2.81	20	
Benzo (k) fluoranthene	0.170	0.020	"	0.200	ND	84.9	70-130	0.714	20	
Chrysene	0.184	0.020	"	0.200	0.0005	91.6	70-130	0.559	20	
Dibenz (a,h) anthracene	0.178	0.020	"	0.200	ND	89.0	70-130	5.09	20	
Fluoranthene	0.166	0.020	"	0.200	ND	82.9	70-130	0.388	20	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Frank CC #7-19

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B2822 - EPA 3580

Matrix Spike Dup (B4B2822-MSD1)

Source: Y402568-01

Prepared: 02/28/2024 Analyzed: 02/29/2024

Fluorene	0.180	0.020	mg/kg	0.200	0.002	89.0	70-130	1.25	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	91.0	70-130	5.37	20	
Naphthalene	0.190	0.002	"	0.200	0.008	90.9	70-130	1.49	20	
Phenanthrene	0.167	0.020	"	0.200	0.003	81.9	70-130	3.72	20	
Pyrene	0.167	0.020	"	0.200	0.0006	83.3	70-130	0.699	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2605 - Saturated Paste Metals**

**Blank (B4B2605-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/29/2024

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

**Duplicate (B4B2605-DUP1)**

**Source: Y402550-12**

Prepared: 02/26/2024 Analyzed: 02/29/2024

Calcium PPM	75.8	10.0	mg/L		84.2			10.6	50	
SAR	ND	0.0100	SAR		3.74				200	
Magnesium PPM	57.7	10.0	mg/L		65.0			11.9	50	
Sodium PPM	177	10.0	"		188			5.86	50	

**Batch B4B2611 - DTPA Sorbitol Preparation**

**Blank (B4B2611-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/28/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4B2611-DUP1)**

**Source: Y402540-02**

Prepared: 02/26/2024 Analyzed: 02/28/2024

Boron	0.634	0.0995	mg/L		0.665			4.70	50	
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4B2614 - Saturated Paste pH/EC**

**Blank (B4B2614-BLK1)**

Prepared: 02/26/2024 Analyzed: 02/27/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4B2614-DUP1)**

**Source: Y402550-12**

Prepared: 02/26/2024 Analyzed: 02/27/2024

pH 7.66 pH Units 7.76 1.30 25

Specific Conductance (EC) 1.56 0.00500 mmhos/cm 1.65 5.65 25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L737330 -

**DUP (L 98044-DUP)**

Source: 98044

Prepared: Analyzed: 03/08/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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**MS (L 98044-MS)**

Source: 98044

Prepared: Analyzed: 03/08/2024

Chromium, Hexavalent	29.7	2.5	mg/Kg	39.4	< 0.244	75	75-125		
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**LCS (LCS)**

Prepared: Analyzed: 03/08/2024

Chromium, Hexavalent	6.22	0.5	mg/Kg	8		78	75-125		
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**LRB (LRB)**

Prepared: Analyzed: 03/08/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Wheat Ridge CO 80033

Andrew Newberry  
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Project: Noble - Frank CC #7-19

### Notes and Definitions

- U Sample is Non-Detect.
  - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
  - ND Analyte NOT DETECTED at or above the reporting limit
  - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.  
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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