



## **ATTACHMENT**

### **Laboratory Analytical Data**



January 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - HSR - Albertstein #16-23    Project Number - [none]**

Attached are your analytical results for Noble - HSR - Albertstein #16-23 received by Origins Laboratory, Inc. December 13, 2023. This project is associated with Origins project number Y312370-01.

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

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

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

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

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

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



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Albertstein #16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y312370-01	Soil	December 13, 2023 8:30	12/13/2023 11:53
Background-01@2'	Y312370-02	Soil	December 13, 2023 8:00	12/13/2023 11:53

A pH rerun was requested per Kendra's email on 01/16/2024. No errors were found in the original data, all results are reported. JAB

Origins Laboratory, Inc.



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 8000 W 44th Ave  
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y312370

Client: Eagle

Client Project ID: HSR - Albertstein #16-23

Checklist Completed by: TSH

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/13/13

Airbill #: N/A

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

Cooler Number/Temperature: 125 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) JTB

Date/Time Reviewed 12-14-13

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**WH-FS-01@6'**  
**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1402	12/14/2023	12/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1602	12/16/2023	12/22/2023	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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 Project: Noble - HSR - Albertstein #16-23

**WH-FS-01@6'**  
**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B3L16 02	12/16/2023	12/22/2023	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	120 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.23		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1418	12/14/2023	12/16/2023	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

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**WH-FS-01@6'**

**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3L1418	12/14/2023	12/16/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B3L1416	12/14/2023	12/15/2023	
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**SAR by 20B Saturated Paste**

SAR	0.114		0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.276		0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023	
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**Total Metals by 6020B**

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Andrew Newberry  
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 Project: Noble - HSR - Albertstein #16-23

**WH-FS-01@6'**

**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312370-01 (Soil)**

**Total Metals by 6020B**

Arsenic	0.77	0.0855	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Barium	41.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.0341	0.026	0.25	"	"	"	"	"	J
Copper	3.12	0.0805	0.25	"	"	"	"	"	
Lead	4.22	0.031	0.25	"	"	"	"	"	
Nickel	3.4	0.0635	0.25	"	"	"	"	"	
Selenium	0.29	0.103	0.25	"	"	"	"	"	
Silver	0.0213	0.0067	0.25	"	"	"	"	"	J
Zinc	14.8	0.535	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724337	12/13/2023	12/22/2023	
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**WH-FS-01@6'**

**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-01RE1 (Soil)**

**pH in Soil by 9045D**

pH	8.07			pH Units	1	B4A1708	12/14/2023	01/18/2024	
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**WH-FS-01@6'**

**12/13/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-01RE2 (Soil)**

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B4A1708	12/14/2023	01/18/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**Background-01@2'**  
**12/13/2023 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312370-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B3L1517	12/15/2023	12/18/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	12/14/2023	12/15/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.22			pH Units	1	B3L1416	12/14/2023	12/15/2023	
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**SAR by 20B Saturated Paste**

SAR	0.207		0.0100	SAR	1	B3L1413	12/14/2023	12/15/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0829		0.00500	mmhos/cm	1	B3L1416	12/14/2023	12/15/2023	
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**Total Metals by 6020B**

Arsenic	1.22	0.0855	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Barium	47.2	0.042	0.25	"	"	"	"	"	
Cadmium	0.061	0.026	0.25	"	"	"	"	"	J

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**Background-01@2'**  
**12/13/2023 8:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312370-02 (Soil)**

**Total Metals by 6020B**

Copper	3.49	0.0805	0.25	mg/Kg	5	L724504	12/22/2023	01/11/2024	
Lead	4.37	0.031	0.25	"	"	"	"	"	
Nickel	4.07	0.0635	0.25	"	"	"	"	"	
Selenium	0.342	0.103	0.25	"	"	"	"	"	
Silver	0.0238	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.535	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L724337	12/13/2023	12/22/2023	
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 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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
<b>Batch B3L1402 - EPA 3550B</b>										
<b>Blank (B3L1402-BLK1)</b>										
					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.1	50-150			

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**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 B3L1402 - EPA 3550B**

**LCS (B3L1402-BS1)**

Prepared: 12/14/2023 Analyzed: 12/15/2023

Diesel (C10-C28)	873	50.0	mg/kg	1000		87.3	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000		94.4	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.6	50-150			

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**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
<b>Batch B3L1402 - EPA 3550B</b>										
<b>Matrix Spike (B3L1402-MS1)</b>		<b>Source: Y312359-01</b>			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Diesel (C10-C28)	2570	50.0	mg/kg	1000	1180	140	70-130			QM-07
Residual Range Organics (C28-C40)	2040	200	"	1000	788	125	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

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**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
<b>Batch B3L1402 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3L1402-MSD1)</b>					<b>Source: Y312359-01</b>					Prepared: 12/14/2023 Analyzed: 12/15/2023
Diesel (C10-C28)	2360	50.0	mg/kg	1000	1180	118	70-130	8.78	35	
Residual Range Organics (C28-C40)	1950	200	"	1000	788	116	70-130	4.47	35	
Surrogate: o-Terphenyl	44		"	49.8		88.5	50-150			

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**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 B3L1602 - EPA 5030 (soil)**

**Blank (B3L1602-BLK1)**

Prepared: 12/16/2023 Analyzed: 12/22/2023

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	99.6		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125	116		70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3L1602 - EPA 5030 (soil)

**LCS (B3L1602-BS1)**

Prepared: 12/16/2023 Analyzed: 12/22/2023

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0960	0.00200	"	0.100		96.0	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.230	0.00400	"	0.200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1602 - EPA 5030 (soil)

Matrix Spike (B3L1602-MS1)	Source: Y312369-01			Prepared: 12/16/2023 Analyzed: 12/22/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.0942	0.00200	"	0.100	ND	94.2	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1602 - EPA 5030 (soil)

Matrix Spike Dup (B3L1602-MSD1)	Source: Y312369-01			Prepared: 12/16/2023 Analyzed: 12/22/2023						
1,2,4-Trimethylbenzene	0.0991	0.00200	mg/kg	0.100	ND	99.1	70-130	3.00	20	
1,3,5-Trimethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130	4.29	20	
Benzene	0.103	0.00200	"	0.100	ND	103	70-130	0.136	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	4.07	20	
Naphthalene	0.106	0.00380	"	0.100	ND	106	70-130	4.33	20	
Toluene	0.0903	0.00200	"	0.100	ND	90.3	70-130	1.47	20	
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	1.73	20	
m,p-Xylene	0.214	0.00400	"	0.200	ND	107	70-130	3.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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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**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 B3L1418 - EPA 3580**

**Blank (B3L1418-BLK1)**

Prepared: 12/14/2023 Analyzed: 12/16/2023

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	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	190		"	200		95.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1418 - EPA 3580**

**LCS (B3L1418-BS1)**

Prepared: 12/14/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200		100	70-130			
2-Methylnaphthalene	0.199	0.002	"	0.200		99.3	70-130			
Acenaphthene	0.187	0.020	"	0.200		93.5	70-130			
Anthracene	0.168	0.020	"	0.200		84.1	70-130			
Benzo (a) anthracene	0.186	0.005	"	0.200		92.9	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		97.2	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200		88.8	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200		101	70-130			
Benzo (k) fluoranthene	0.166	0.020	"	0.200		82.9	70-130			
Chrysene	0.169	0.020	"	0.200		84.6	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.4	70-130			
Fluorene	0.197	0.020	"	0.200		98.3	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200		110	70-130			
Naphthalene	0.194	0.002	"	0.200		96.8	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.5	70-130			
Pyrene	0.174	0.020	"	0.200		86.9	70-130			

Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B3L1418-MS1)**

**Source: Y312350-01**

Prepared: 12/14/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Acenaphthene	0.191	0.020	"	0.200	ND	95.7	70-130			
Anthracene	0.201	0.020	"	0.200	ND	100	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1418 - EPA 3580**

<b>Matrix Spike (B3L1418-MS1)</b>		<b>Source: Y312350-01</b>			Prepared: 12/14/2023 Analyzed: 12/16/2023					
Benzo (a) anthracene	0.207	0.005	mg/kg	0.200	ND	103	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200	ND	91.7	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200	ND	83.8	70-130			
Chrysene	0.177	0.020	"	0.200	ND	88.7	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.197	0.020	"	0.200	0.002	97.7	70-130			
Fluorene	0.205	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200	ND	113	70-130			
Naphthalene	0.200	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.180	0.020	"	0.200	ND	89.8	70-130			
Pyrene	0.180	0.020	"	0.200	ND	89.9	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

<b>Matrix Spike Dup (B3L1418-MSD1)</b>		<b>Source: Y312350-01</b>			Prepared: 12/14/2023 Analyzed: 12/16/2023					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.4	70-130	3.20	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.3	70-130	6.54	20	
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130	2.91	20	
Anthracene	0.191	0.020	"	0.200	ND	95.7	70-130	4.65	20	
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	103	70-130	0.133	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130	2.58	20	
Benzo (b) fluoranthene	0.172	0.020	"	0.200	ND	86.1	70-130	6.33	20	
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	102	70-130	4.57	20	

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1418 - EPA 3580**

<b>Matrix Spike Dup (B3L1418-MSD1)</b>	<b>Source: Y312350-01</b>			<b>Prepared: 12/14/2023 Analyzed: 12/16/2023</b>						
Benzo (k) fluoranthene	0.177	0.020	mg/kg	0.200	ND	88.4	70-130	5.42	20	
Chrysene	0.185	0.020	"	0.200	ND	92.6	70-130	4.21	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.3	70-130	5.48	20	
Fluoranthene	0.192	0.020	"	0.200	0.002	95.4	70-130	2.42	20	
Fluorene	0.207	0.020	"	0.200	ND	103	70-130	0.984	20	
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200	ND	108	70-130	4.50	20	
Naphthalene	0.188	0.002	"	0.200	ND	94.0	70-130	6.17	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.3	70-130	2.88	20	
Pyrene	0.173	0.020	"	0.200	ND	86.7	70-130	3.57	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B3L1413 - Saturated Paste Metals**

**Blank (B3L1413-BLK1)**

Prepared: 12/14/2023 Analyzed: 12/15/2023

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 (B3L1413-DUP1)**

Source: Y312355-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

Calcium PPM	24.8	10.0	mg/L		24.8			0.00	50	
SAR	ND	0.0100	SAR		0.0993				200	
Magnesium PPM	4.83	10.0	mg/L		4.93			2.05	50	
Sodium PPM	1.96	10.0	"		2.07			5.46	50	

**Batch B3L1517 - DTPA Sorbitol Preparation**

**Blank (B3L1517-BLK1)**

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3L1517-DUP1)**

Source: Y312365-01

Prepared: 12/15/2023 Analyzed: 12/18/2023

Boron	0.505	0.0989	mg/L		0.485			4.02	50	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L1416 - Saturated Paste pH/EC</b>										
<b>Blank (B3L1416-BLK1)</b>					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3L1416-DUP1)</b>					<b>Source: Y312355-01</b> Prepared: 12/14/2023 Analyzed: 12/15/2023					
Specific Conductance (EC)	0.214	0.00500	mmhos/cm		0.219			2.59	25	
pH	8.26		pH Units		8.25			0.121	25	
<b>Batch B4A1708 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4A1708-DUP1)</b>					<b>Source: Y401024-02</b> Prepared: 01/17/2024 Analyzed: 01/18/2024					
pH	7.94		pH Units		7.99			0.628	25	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**Total Metals by 6020B - 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 L724504 - 3050B**

<b>MSD (L 86302-MSD-L724504)</b>		<b>Source: 86302</b>			<b>Prepared: 12/22/2023 Analyzed: 01/11/2024</b>					
Lead	14.4	0.25	mg/Kg	2.5	15.5	0	75-125	6	80	I*
Nickel	4.9	0.25	"	2.5	3.71	48	75-125	3.3	80	*
Selenium	4.58	0.25	"	4.99	0.576	80	75-125	11.5	80	
Silver	0.415	0.25	"	0.499	0.0197	79	75-125	8.5	80	
Zinc	36.4	2.5	"	25	20.4	64	75-125	5.6	80	*
Copper	5.38	0.25	"	2.5	4.47	36	75-125	3.7	80	*
Cadmium	0.511	0.25	"	0.499	0.13	76	75-125	5.8	80	
Barium	44.3	0.25	"	4.99	48	0	75-125	7.2	80	I*
Arsenic	2.72	0.25	"	2.5	1.09	65	75-125	6.8	80	*

<b>MS (L 86302-MS-L724504)</b>		<b>Source: 86302</b>			<b>Prepared: 12/22/2023 Analyzed: 01/11/2024</b>					
Cadmium	0.482	0.25	mg/Kg	0.464	0.13	76	75-125			
Copper	5.18	0.25	"	2.32	4.47	31	75-125			*
Lead	15.3	0.25	"	2.32	15.5	0	75-125			I*
Barium	41.2	0.25	"	4.64	48	0	75-125			I*
Arsenic	2.54	0.25	"	2.32	1.09	62	75-125			*
Nickel	4.74	0.25	"	2.32	3.71	44	75-125			*
Selenium	4.08	0.25	"	4.64	0.576	75	75-125			
Silver	0.381	0.25	"	0.464	0.0197	78	75-125			
Zinc	34.4	2.5	"	23.2	20.4	60	75-125			*

<b>LCS (LCS-L724504)</b>		<b>Prepared: 12/22/2023 Analyzed: 01/12/2024</b>								
Barium	4.74	0.25	mg/Kg	5		95	80-120			
Zinc	22.2	2.5	"	25		89	80-120			
Arsenic	2.36	0.25	"	2.5		94	80-120			
Silver	0.464	0.25	"	0.5		93	80-120			
Cadmium	0.449	0.25	"	0.5		90	80-120			

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**Total Metals by 6020B - 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 L724504 - 3050B**

**LCS (LCS-L724504)**

Prepared: 12/22/2023 Analyzed: 01/12/2024

Copper	2.3	0.25	mg/Kg	2.5		92	80-120			
Lead	2.43	0.25	"	2.5		97	80-120			
Nickel	2.25	0.25	"	2.5		90	80-120			
Selenium	4.65	0.25	"	5		93	80-120			

**LRB (LRB-L724504)**

Prepared: 12/22/2023 Analyzed: 01/11/2024

Lead	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L724337 -</b>										
<b>DUP (L 86294-DUP)</b>		<b>Source: Y312370-01</b>			Prepared: Analyzed: 12/22/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 86294-MS)</b>		<b>Source: Y312370-01</b>			Prepared: Analyzed: 12/22/2023					
Chromium, Hexavalent	35.8	2.5	mg/Kg	39.2	<1.22	91	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 12/22/2023								
Chromium, Hexavalent	6.76	0.5	mg/Kg	8		85	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 12/22/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Albertstein #16-23

### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

I\* [Undefined]

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



February 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Albertstein #16-23 Project Number - [none]

Attached are your analytical results for Noble - HSR - Albertstein #16-23 received by Origins Laboratory, Inc. February 05, 2024. This project is associated with Origins project number Y402102-01.

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

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

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

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

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

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



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Albertstein #16-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y402102-01	Soil	February 2, 2024 12:25	02/05/2024 11:57
Background-02@3'	Y402102-02	Soil	February 2, 2024 12:45	02/05/2024 11:57
FL-SS-06@4'	Y402102-03	Soil	February 5, 2024 10:08	02/05/2024 11:57
FL-SS-07@4'	Y402102-04	Soil	February 5, 2024 10:19	02/05/2024 11:57
FL-SS-08@3'	Y402102-05	Soil	February 5, 2024 10:32	02/05/2024 11:57

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 - HSR - Albertstein #16-23

www.originslaboratory.com

442102

page 1 of 1

**ORIGINS**  
 LABORATORY, INC

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0479  
 Email Address: anewberry@eagle-enviro.com

Project Manager: Andrew Newberry  
 Project Name: HSR-Alberstein #16-23  
 Project Number: —  
 Samples Collected By: IM/GK/EG

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	Turnaround Time				
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #			Other	Some Day	48 Hr	72 Hr	Standard
FL-SS-01E4	2/2/24	1225	3	X				X			X	X	X	EC, SM, pH by	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Background-02E3	↓	1245	2											Saturated paste prep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FL-SS-06E4	2/5/24	1008	3								X				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FL-SS-07E4	↓	1019	↓												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FL-SS-08E3	↓	1032	↓											MDUs needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relinquished By: <u>Plouffe</u>	Date: <u>2/5/24</u>	Time: <u>1157</u>	Received By: <u>[Signature]</u>	Date: <u>2/5/24</u>	Time: <u>1157</u>	Turnaround Time: <u>Standard</u>											

Temp Received: 4 Date Results Needed: Noble

Bill to Waste

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 - HSR - Albertstein #16-23

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4402102 Client: Eagle  
 Client Project ID: Albertstein #16-23  
 Checklist Completed by: JWT/EMS Shipped Via: TUD  
 Date/time completed: 2/5/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1,4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 7004

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <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 type="checkbox"/>	<input checked="" 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? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/6/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**FL-SS-01@4'**  
**2/2/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0991	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

FL-SS-01@4'  
 2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-01 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**FL-SS-01@4'**  
**2/2/2024 12:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.62			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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**SAR by 20B Saturated Paste**

SAR	0.0665		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0615		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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**Table 915 metals by EPA 6020B**

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 - HSR - Albertstein #16-23

FL-SS-01@4'  
 2/2/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-01 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	1.46		0.0881	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	41.6		8.81	"	"	"	"	"	
Cadmium	ND		0.0881	"	"	"	"	"	
Copper	ND		8.81	"	"	"	"	"	
Lead	3.69		0.881	"	"	"	"	"	
Nickel	2.98		0.881	"	"	"	"	"	
Selenium	ND		0.0881	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	12.4		8.81	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/02/2024	02/09/2024	
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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 - HSR - Albertstein #16-23

**Background-02@3'**  
**2/2/2024 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.47			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0549		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.10		0.0949	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	45.5		9.49	"	"	"	"	"	
Cadmium	ND		0.0949	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**Background-02@3'**  
**2/2/2024 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-02 (Soil)**

**Table 915 metals by EPA 6020B**

Copper	ND		9.49	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Lead	<b>4.79</b>		0.949	"	"	"	"	"	
Nickel	<b>4.63</b>		0.949	"	"	"	"	"	
Selenium	ND		0.0949	"	"	"	"	"	
Silver	ND		0.0949	"	"	"	"	"	
Zinc	<b>20.6</b>		9.49	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/02/2024	02/09/2024	
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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 - HSR - Albertstein #16-23

**FL-SS-06@4'**  
**2/5/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

FL-SS-06@4'  
 2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-03 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**FL-SS-06@4'**  
**2/5/2024 10:08:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-03 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	7.30			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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**SAR by 20B Saturated Paste**

SAR	ND		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0488		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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**Table 915 metals by EPA 6020B**

Origins Laboratory, Inc.



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 Project: Noble - HSR - Albertstein #16-23

FL-SS-06@4'

2/5/2024 10:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-03 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	1.99		0.0950	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	41.2		9.50	"	"	"	"	"	
Cadmium	ND		0.0950	"	"	"	"	"	
Copper	ND		9.50	"	"	"	"	"	
Lead	4.13		0.950	"	"	"	"	"	
Nickel	3.80		0.950	"	"	"	"	"	
Selenium	ND		0.0950	"	"	"	"	"	
Silver	ND		0.0950	"	"	"	"	"	
Zinc	14.5		9.50	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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Origins Laboratory, Inc.



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Andrew Newberry  
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 Project: Noble - HSR - Albertstein #16-23

FL-SS-07@4'  
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.102	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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 - HSR - Albertstein #16-23

FL-SS-07@4'  
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-04 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	<b>0.829</b>		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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 - HSR - Albertstein #16-23

**FL-SS-07@4'**  
**2/5/2024 10:19:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-04 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.11			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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**SAR by 20B Saturated Paste**

SAR	0.243		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.180		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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**Table 915 metals by EPA 6020B**

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 Project: Noble - HSR - Albertstein #16-23

FL-SS-07@4'  
 2/5/2024 10:19:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-04 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	2.08		0.0994	mg/kg	10	B4B0237	02/05/2024	02/08/2024	
Barium	42.6		9.94	"	"	"	"	"	
Cadmium	ND		0.0994	"	"	"	"	"	
Copper	ND		9.94	"	"	"	"	"	
Lead	5.98		0.994	"	"	"	"	"	
Nickel	4.26		0.994	"	"	"	"	"	
Selenium	ND		0.0994	"	"	"	"	"	
Silver	ND		0.0994	"	"	"	"	"	
Zinc	17.8		9.94	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

FL-SS-08@3'  
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-05 (Soil)

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B4B0813	02/08/2024	02/09/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B0701	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B0633	02/06/2024	02/06/2024	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 - HSR - Albertstein #16-23

FL-SS-08@3'  
 2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-05 (Soil)

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B4B06 33	02/06/2024	02/06/2024	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	02/06/2024	02/07/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.735		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4B0804	02/08/2024	02/10/2024	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

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**FL-SS-08@3'**  
**2/5/2024 10:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y402102-05 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4B0804	02/08/2024	02/10/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	6.55			pH Units	1	B4B0612	02/06/2024	02/07/2024	
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**SAR by 20B Saturated Paste**

SAR	2.02		0.0100	SAR	1	B4B0611	02/06/2024	02/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.129		0.00500	mmhos/cm	1	B4B0612	02/06/2024	02/07/2024	
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**Table 915 metals by EPA 6020B**

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FL-SS-08@3'

2/5/2024 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y402102-05 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	1.69		0.0945	mg/kg	10	B4B0516	02/06/2024	02/08/2024	
Barium	36.3		9.45	"	"	"	"	"	
Cadmium	ND		0.0945	"	"	"	"	"	
Copper	ND		9.45	"	"	"	"	"	
Lead	4.38		0.945	"	"	"	"	"	
Nickel	3.11		0.945	"	"	"	"	"	
Selenium	ND		0.0945	"	"	"	"	"	
Silver	ND		0.0945	"	"	"	"	"	
Zinc	13.7		9.45	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L732147	02/05/2024	02/09/2024	
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 Project: Noble - HSR - Albertstein #16-23

**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 B4B0633 - EPA 5030 (soil)**

**Blank (B4B0633-BLK1)**

Prepared: 02/06/2024 Analyzed: 02/06/2024

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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.7		70-130			

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Andrew Newberry  
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 Project: Noble - HSR - Albertstein #16-23

**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 B4B0633 - EPA 5030 (soil)**

**LCS (B4B0633-BS1)**

Prepared: 02/06/2024 Analyzed: 02/06/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0958	0.00380	"	0.100		95.8	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0633 - EPA 5030 (soil)

Matrix Spike (B4B0633-MS1)	Source: Y402155-01			Prepared: 02/06/2024 Analyzed: 02/06/2024						
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00190	98.9	70-130			
Toluene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry  
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 Project: Noble - HSR - Albertstein #16-23

**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 B4B0633 - EPA 5030 (soil)

Matrix Spike Dup (B4B0633-MSD1)	Source: Y402155-01			Prepared: 02/06/2024 Analyzed: 02/06/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	7.80	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.51	20	
Benzene	0.108	0.00200	"	0.100	ND	108	70-130	14.5	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.42	20	
Naphthalene	0.105	0.00380	"	0.100	0.00190	103	70-130	3.70	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	13.7	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	9.49	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	8.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Project: Noble - HSR - Albertstein #16-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4B0701 - EPA 3550B</b>										
<b>Blank (B4B0701-BLK1)</b>										
					Prepared: 02/07/2024 Analyzed: 02/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.6	50-150			

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**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 B4B0701 - EPA 3550B**

**LCS (B4B0701-BS1)**

Prepared: 02/07/2024 Analyzed: 02/14/2024

Diesel (C10-C28)	927	50.0	mg/kg	1000		92.7	70-130			
Residual Range Organics (C28-C40)	926	200	"	1000		92.6	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B4B0701 - EPA 3550B**

<b>Matrix Spike (B4B0701-MS1)</b>	<b>Source: Y402102-01</b>			Prepared: 02/07/2024 Analyzed: 02/14/2024						
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	904	200	"	1000	50.9	85.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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**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
<b>Batch B4B0701 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4B0701-MSD1)</b>		<b>Source: Y402102-01</b>			Prepared: 02/07/2024 Analyzed: 02/14/2024					
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	6.08	35	
Residual Range Organics (C28-C40)	941	200	"	1000	50.9	89.0	70-130	4.01	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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**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 B4B0237 - EPA 3050B**

**Blank (B4B0237-BLK1)**

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

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

**LCS (B4B0237-BS1)**

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

Arsenic	4.46	0.0100	mg/kg	5.00		89.2	80-120			
Barium	484	1.00	"	500		96.9	80-120			
Cadmium	5.18	0.0100	"	5.00		104	80-120			
Copper	49.8	1.00	"	50.0		99.5	80-120			
Lead	5.31	0.100	"	5.00		106	80-120			
Nickel	4.92	0.100	"	5.00		98.4	80-120			
Selenium	4.30	0.0100	"	5.00		86.0	80-120			
Silver	5.49	0.0100	"	5.00		110	80-120			
Zinc	43.7	1.00	"	50.0		87.3	80-120			

**Matrix Spike (B4B0237-MS1)**

Source: Y402092-03

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

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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 B4B0237 - EPA 3050B**

<b>Matrix Spike (B4B0237-MS1)</b>		<b>Source: Y402092-03</b>			Prepared: 02/02/2024 Analyzed: 02/08/2024					
Arsenic	6.55	0.0843	mg/kg	4.21	2.53	95.4	75-125			
Barium	522	8.43	"	421	73.9	106	75-125			
Cadmium	4.45	0.0843	"	4.21	0.153	102	75-125			
Copper	45.9	8.43	"	42.1	6.25	94.0	75-125			
Lead	13.7	0.843	"	4.21	9.79	93.7	75-125			
Nickel	9.23	0.843	"	4.21	6.46	65.8	75-125			QM-07
Selenium	4.06	0.0843	"	4.21	0.154	92.7	75-125			
Silver	4.31	0.0843	"	4.21	0.0353	101	75-125			
Zinc	63.2	8.43	"	42.1	27.4	84.8	75-125			

<b>Matrix Spike Dup (B4B0237-MSD1)</b>		<b>Source: Y402092-03</b>			Prepared: 02/02/2024 Analyzed: 02/08/2024					
Arsenic	6.72	0.0943	mg/kg	4.72	2.53	88.7	75-125	2.46	20	
Barium	533	9.43	"	472	73.9	97.3	75-125	1.96	20	
Cadmium	4.96	0.0943	"	4.72	0.153	102	75-125	10.8	20	
Copper	50.2	9.43	"	47.2	6.25	93.2	75-125	9.07	20	
Lead	11.4	0.943	"	4.72	9.79	34.3	75-125	18.6	20	QM-07
Nickel	10.1	0.943	"	4.72	6.46	78.2	75-125	9.45	20	
Selenium	4.49	0.0943	"	4.72	0.154	91.9	75-125	10.0	20	
Silver	4.87	0.0943	"	4.72	0.0353	102	75-125	12.1	20	
Zinc	69.6	9.43	"	47.2	27.4	89.4	75-125	9.65	20	

**Batch B4B0516 - EPA 3050B**

<b>Blank (B4B0516-BLK1)</b>		Prepared: 02/06/2024 Analyzed: 02/08/2024								
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							

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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 B4B0516 - EPA 3050B**

**Blank (B4B0516-BLK1)**

Prepared: 02/06/2024 Analyzed: 02/08/2024

Copper	ND	1.00	mg/kg							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

**LCS (B4B0516-BS1)**

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	4.47	0.0100	mg/kg	5.00		89.4	80-120			
Barium	501	1.00	"	500		100	80-120			
Cadmium	4.93	0.0100	"	5.00		98.6	80-120			
Copper	47.8	1.00	"	50.0		95.6	80-120			
Lead	5.28	0.100	"	5.00		106	80-120			
Nickel	4.97	0.100	"	5.00		99.3	80-120			
Selenium	4.37	0.0100	"	5.00		87.3	80-120			
Silver	5.26	0.0100	"	5.00		105	80-120			
Zinc	42.7	1.00	"	50.0		85.3	80-120			

**Matrix Spike (B4B0516-MS1)**

**Source: Y402102-05**

Prepared: 02/06/2024 Analyzed: 02/08/2024

Arsenic	6.05	0.0887	mg/kg	4.44	1.69	98.3	75-125			
Barium	486	8.87	"	444	36.3	101	75-125			
Cadmium	4.75	0.0887	"	4.44	0.0756	105	75-125			
Copper	47.3	8.87	"	44.4	3.43	98.8	75-125			
Lead	8.99	0.887	"	4.44	4.38	104	75-125			
Nickel	7.77	0.887	"	4.44	3.11	105	75-125			
Selenium	4.35	0.0887	"	4.44	0.0889	96.0	75-125			
Silver	4.78	0.0887	"	4.44	0.0340	107	75-125			

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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 B4B0516 - EPA 3050B**

<b>Matrix Spike (B4B0516-MS1)</b>		<b>Source: Y402102-05</b>			<b>Prepared: 02/06/2024 Analyzed: 02/08/2024</b>					
Zinc	56.8	8.87	mg/kg	44.4	13.7	97.2	75-125			
<b>Matrix Spike Dup (B4B0516-MSD1)</b>		<b>Source: Y402102-05</b>			<b>Prepared: 02/06/2024 Analyzed: 02/08/2024</b>					
Arsenic	6.21	0.0882	mg/kg	4.41	1.69	103	75-125	2.64	20	
Barium	467	8.82	"	441	36.3	97.7	75-125	4.02	20	
Cadmium	4.60	0.0882	"	4.41	0.0756	103	75-125	3.23	20	
Copper	46.6	8.82	"	44.1	3.43	97.9	75-125	1.39	20	
Lead	8.95	0.882	"	4.41	4.38	104	75-125	0.459	20	
Nickel	7.77	0.882	"	4.41	3.11	106	75-125	0.0120	20	
Selenium	4.29	0.0882	"	4.41	0.0889	95.4	75-125	1.21	20	
Silver	4.63	0.0882	"	4.41	0.0340	104	75-125	3.10	20	
Zinc	59.2	8.82	"	44.1	13.7	103	75-125	4.19	20	

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**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 B4B0804 - EPA 3580**

**Blank (B4B0804-BLK1)**

Prepared: 02/08/2024 Analyzed: 02/10/2024

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		92.5	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

**LCS (B4B0804-BS1)**

Prepared: 02/08/2024 Analyzed: 02/10/2024

1-Methylnaphthalene	0.173	0.002	mg/kg	0.200		86.4	70-130			
2-Methylnaphthalene	0.160	0.002	"	0.200		80.1	70-130			
Acenaphthene	0.167	0.020	"	0.200		83.3	70-130			
Anthracene	0.158	0.020	"	0.200		78.9	70-130			

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**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 B4B0804 - EPA 3580**

**LCS (B4B0804-BS1)**

Prepared: 02/08/2024 Analyzed: 02/10/2024

Benzo (a) anthracene	0.149	0.005	mg/kg	0.200		74.7	70-130			
Benzo (a) pyrene	0.174	0.020	"	0.200		87.0	70-130			
Benzo (b) fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Benzo (g,h,i) perylene	0.182	0.020	"	0.200		91.0	70-130			
Benzo (k) fluoranthene	0.168	0.020	"	0.200		83.8	70-130			
Chrysene	0.162	0.020	"	0.200		81.0	70-130			
Dibenz (a,h) anthracene	0.182	0.020	"	0.200		90.9	70-130			
Fluoranthene	0.161	0.020	"	0.200		80.4	70-130			
Fluorene	0.170	0.020	"	0.200		84.9	70-130			
Indeno (1,2,3-cd) pyrene	0.167	0.020	"	0.200		83.5	70-130			
Naphthalene	0.174	0.002	"	0.200		87.0	70-130			
Phenanthrene	0.157	0.020	"	0.200		78.5	70-130			
Pyrene	0.163	0.020	"	0.200		81.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	200		"	200		98.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike (B4B0804-MS1)**

**Source: Y402102-01**

Prepared: 02/08/2024 Analyzed: 02/10/2024

1-Methylnaphthalene	0.172	0.002	mg/kg	0.200	ND	85.9	70-130			
2-Methylnaphthalene	0.161	0.002	"	0.200	ND	80.6	70-130			
Acenaphthene	0.168	0.020	"	0.200	ND	84.0	70-130			
Anthracene	0.170	0.020	"	0.200	0.001	84.4	70-130			
Benzo (a) anthracene	0.149	0.005	"	0.200	ND	74.7	70-130			
Benzo (a) pyrene	0.177	0.020	"	0.200	ND	88.5	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200	ND	89.0	70-130			

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 Project: Noble - HSR - Albertstein #16-23

**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 B4B0804 - EPA 3580**

<b>Matrix Spike (B4B0804-MS1)</b>		<b>Source: Y402102-01</b>			Prepared: 02/08/2024 Analyzed: 02/10/2024					
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	85.2	70-130			
Chrysene	0.168	0.020	"	0.200	ND	84.2	70-130			
Dibenz (a,h) anthracene	0.181	0.020	"	0.200	ND	90.3	70-130			
Fluoranthene	0.162	0.020	"	0.200	0.0004	80.8	70-130			
Fluorene	0.169	0.020	"	0.200	ND	84.7	70-130			
Indeno (1,2,3-cd) pyrene	0.172	0.020	"	0.200	ND	86.0	70-130			
Naphthalene	0.173	0.002	"	0.200	ND	86.6	70-130			
Phenanthrene	0.156	0.020	"	0.200	ND	78.0	70-130			
Pyrene	0.162	0.020	"	0.200	ND	81.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.8	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

<b>Matrix Spike Dup (B4B0804-MSD1)</b>		<b>Source: Y402102-01</b>			Prepared: 02/08/2024 Analyzed: 02/10/2024					
1-Methylnaphthalene	0.237	0.002	mg/kg	0.200	ND	119	70-130	32.0	20	QR-02
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130	30.5	20	QR-02
Acenaphthene	0.229	0.020	"	0.200	ND	115	70-130	30.8	20	QR-02
Anthracene	0.220	0.020	"	0.200	0.001	109	70-130	25.7	20	QR-02
Benzo (a) anthracene	0.211	0.005	"	0.200	ND	106	70-130	34.3	20	QR-02
Benzo (a) pyrene	0.245	0.020	"	0.200	ND	123	70-130	32.3	20	QR-02
Benzo (b) fluoranthene	0.256	0.020	"	0.200	ND	128	70-130	31.2	20	QR-02
Benzo (g,h,i) perylene	0.248	0.020	"	0.200	ND	124	70-130	33.0	20	QR-02
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	33.0	20	QR-02
Chrysene	0.227	0.020	"	0.200	ND	114	70-130	29.9	20	QR-02
Dibenz (a,h) anthracene	0.244	0.020	"	0.200	ND	122	70-130	29.9	20	QR-02
Fluoranthene	0.217	0.020	"	0.200	0.0004	108	70-130	28.8	20	QR-02

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Albertstein #16-23

**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 B4B0804 - EPA 3580

Matrix Spike Dup (B4B0804-MSD1)	Source: Y402102-01			Prepared: 02/08/2024 Analyzed: 02/10/2024						
Fluorene	0.235	0.020	mg/kg	0.200	ND	117	70-130	32.4	20	QR-02
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	ND	118	70-130	31.1	20	QR-02
Naphthalene	0.240	0.002	"	0.200	ND	120	70-130	32.3	20	QR-02
Phenanthrene	0.212	0.020	"	0.200	ND	106	70-130	30.7	20	QR-02
Pyrene	0.228	0.020	"	0.200	ND	114	70-130	33.6	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	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 B4B0611 - Saturated Paste Metals**

**Blank (B4B0611-BLK1)**

Prepared: 02/06/2024 Analyzed: 02/07/2024

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 (B4B0611-DUP1)**

**Source: Y402098-01**

Prepared: 02/06/2024 Analyzed: 02/07/2024

SAR	ND	0.0100	SAR		0.163				200	
Calcium PPM	7.97	10.0	mg/L		8.16			2.36	50	
Magnesium PPM	2.18	10.0	"		2.33			6.65	50	
Sodium PPM	2.22	10.0	"		2.05			7.96	50	

**Batch B4B0813 - DTPA Sorbitol Preparation**

**Blank (B4B0813-BLK1)**

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

Boron	ND	0.100	mg/L							
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**Duplicate (B4B0813-DUP1)**

**Source: Y402054-01**

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

Boron	2.83	0.0996	mg/L		2.85			0.747	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 B4B0612 - Saturated Paste pH/EC**

**Blank (B4B0612-BLK1)**

Prepared: 02/06/2024 Analyzed: 02/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4B0612-DUP1)**

**Source: Y402098-01**

Prepared: 02/06/2024 Analyzed: 02/07/2024

Specific Conductance (EC)	0.174	0.00500	mmhos/cm	0.197	12.3	25
pH	8.41		pH Units	8.43	0.238	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
<b>Batch L732147 -</b>										
<b>DUP (L 82297-DUP)</b>		<b>Source: Y402102-01</b>			Prepared: Analyzed: 02/09/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 82297-MS)</b>		<b>Source: Y402102-01</b>			Prepared: Analyzed: 02/09/2024					
Chromium, Hexavalent	29.3	2.5	mg/Kg	38.8	< 0.244	76	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 02/09/2024								
Chromium, Hexavalent	6.07	0.5	mg/Kg	8		76	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 02/09/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Albertstein #16-23

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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