



March 27, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Abramson #5-23 Project Number - [none]

Attached are your analytical results for Noble - HSR - Abramson #5-23 received by Origins Laboratory, Inc. March 18, 2024. This project is associated with Origins project number Y403474-01.

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 - Abramson #5-23

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y403474-01	Water	March 18, 2024 11:35	03/18/2024 16:12
MW-02	Y403474-02	Water	March 18, 2024 11:45	03/18/2024 16:12
MW-03	Y403474-03	Water	March 18, 2024 12:00	03/18/2024 16:12
MW-04	Y403474-04	Water	March 18, 2024 12:10	03/18/2024 16:12
MW-05	Y403474-05	Water	March 18, 2024 12:20	03/18/2024 16:12

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 - HSR - Abramson #5-23

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

**Sample Receipt Checklist**

Origins Work Order: Y403474 Client: Eagle  
Client Project ID: Noble - HSR - Abramson #5

Checklist Completed by: SA/JP Shipped Via: \_\_\_\_\_  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 3/18/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid  Water  Other: \_\_\_\_\_  
Cooler Number/Temperature: 1, 10.9 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)  
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"/>	<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 subcontracted 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"/>	<u>NC</u>
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]

3/20/24  
Date/Time Reviewed

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 - Abramson #5-23

MW-01

3/18/2024 11:35:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y403474-01 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C1906	JSM	03/19/2024	03/19/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	99.8 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.8 %		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 - HSR - Abramson #5-23

MW-02

3/18/2024 11:45:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403474-02 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C1906	JSM	03/19/2024	03/19/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	102 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130		"	"	"	"	

Origins Laboratory, Inc.

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Andrew Newberry  
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MW-03

3/18/2024 12:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y403474-03 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C1906	JSM	03/19/2024	03/19/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	99.0 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.0 %		70-130		"	"	"	"	

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Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

MW-04

3/18/2024 12:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y403474-04 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C1906	JSM	03/19/2024	03/19/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %		70-130		"	"	"	"	
Surrogate: Toluene-d8	100 %		70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130		"	"	"	"	

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MW-05

3/18/2024 12:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y403474-05 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4C1906	JSM	03/19/2024	03/19/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	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 B4C1906 - EPA 5030B (Water)**

**Blank (B4C1906-BLK1)**

Prepared: 03/19/2024 Analyzed: 03/19/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B4C1906 - EPA 5030B (Water)

LCS (B4C1906-BS1)

Prepared: 03/19/2024 Analyzed: 03/19/2024

1,2,4-Trimethylbenzene	51.9	2.00	ug/L	50.0	104	70-130				
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0	105	70-130				
Benzene	50.0	1.00	"	50.0	100	70-130				
Ethylbenzene	51.2	1.00	"	50.0	102	70-130				
m,p-Xylene	103	2.00	"	100	103	70-130				
Naphthalene	48.2	2.00	"	50.0	96.4	70-130				
o-Xylene	51.4	1.00	"	50.0	103	70-130				
Toluene	51.0	1.00	"	50.0	102	70-130				
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.3	70-130				
Surrogate: Toluene-d8	64		"	62.5	102	70-130				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102	70-130				

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Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

**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 B4C1906 - EPA 5030B (Water)

Matrix Spike (B4C1906-MS1)

Source: Y403474-01

Prepared: 03/19/2024 Analyzed: 03/19/2024

1,2,4-Trimethylbenzene	57.5	2.00	ug/L	50.0	ND	115	70-130			
1,3,5-Trimethylbenzene	57.9	2.00	"	50.0	ND	116	70-130			
Benzene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	55.4	1.00	"	50.0	ND	111	70-130			
m,p-Xylene	111	2.00	"	100	ND	111	70-130			
Naphthalene	51.1	2.00	"	50.0	ND	102	70-130			
o-Xylene	56.5	1.00	"	50.0	ND	113	70-130			
Toluene	51.6	1.00	"	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon For Jen Pellegrini, Project Manager



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - HSR - Abramson #5-23

**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 B4C1906 - EPA 5030B (Water)

Matrix Spike Dup (B4C1906-MSD1)

Source: Y403474-01

Prepared: 03/19/2024 Analyzed: 03/19/2024

1,2,4-Trimethylbenzene	54.5	2.00	ug/L	50.0	ND	109	70-130	5.29	20	
1,3,5-Trimethylbenzene	54.9	2.00	"	50.0	ND	110	70-130	5.42	20	
Benzene	50.6	1.00	"	50.0	ND	101	70-130	0.119	20	
Ethylbenzene	52.5	1.00	"	50.0	ND	105	70-130	5.47	20	
m,p-Xylene	105	2.00	"	100	ND	105	70-130	5.85	20	
Naphthalene	53.1	2.00	"	50.0	ND	106	70-130	3.74	20	
o-Xylene	52.0	1.00	"	50.0	ND	104	70-130	8.35	20	
Toluene	52.0	1.00	"	50.0	ND	104	70-130	0.791	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - HSR - Abramson #5-23

### Notes and Definitions

- U Sample is Non-Detect.
  - ND Analyte NOT DETECTED at or above the reporting limit
  - RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

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