



## **FIGURES**

**Figure 1: Groundwater Analytical Map (12/29/23)**

**Figure 2: Groundwater Elevation Map (12/29/23)**

**LEGEND**

— WELLHEAD ASSESSMENT BOUNDARIES

⊕ MONITORING WELL LOCATIONS

**PARAMETERS**

**GROUNDWATER SAMPLE LOCATION**  
**DATE**  
 B = BENZENE (µg/L)  
 T = TOLUENE (µg/L)  
 E = ETHYLBENZENE (µg/L)  
 X = TOTAL XYLENES (µg/L)  
 N = NAPHTHALENE (µg/L)  
 1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)  
 1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)  
 1-MN = 1-METHYLNAPHTHALENE  
 2-MN = 2-METHYLNAPHTHALENE  
 C = CHLORIDE (mg/L)  
 S = SULFATE (mg/L)  
 TDS = TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER  
 mg/L = MILLIGRAMS PER LITER

**NOTES:**  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS.

GROUNDWATER INORGANIC PARAMETERS IN MW-04 WERE USED IN THE DETERMINATION OF LOCAL BACKGROUND LEVELS AT THE SITE.

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

**GROUNDWATER ANALYTICAL MAP**  
 (03/27/24)

McBAIN (BAINBRIDGE) #1  
 HISTORICAL RELEASE  
 40.361784 / -104.680276  
 NE¼ NE¼ SEC.32 T5N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12032  
 REMEDIATION # 27419

FIGURE NO.

1

DRAWN BY:

ZM



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449

MW-02  
 3/27/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.20  
 2-MN = <0.20  
 C = 140  
 S = 463  
 TDS= 928

MW-02

MW-01  
 3/27/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.20  
 2-MN = <0.20  
 C = 158  
 S = 456  
 TDS= 988

MW-01

MW-05

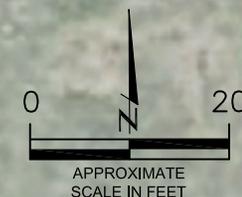
MW-05  
 3/27/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.20  
 2-MN = <0.20  
 C = 126  
 S = 416  
 TDS= 942

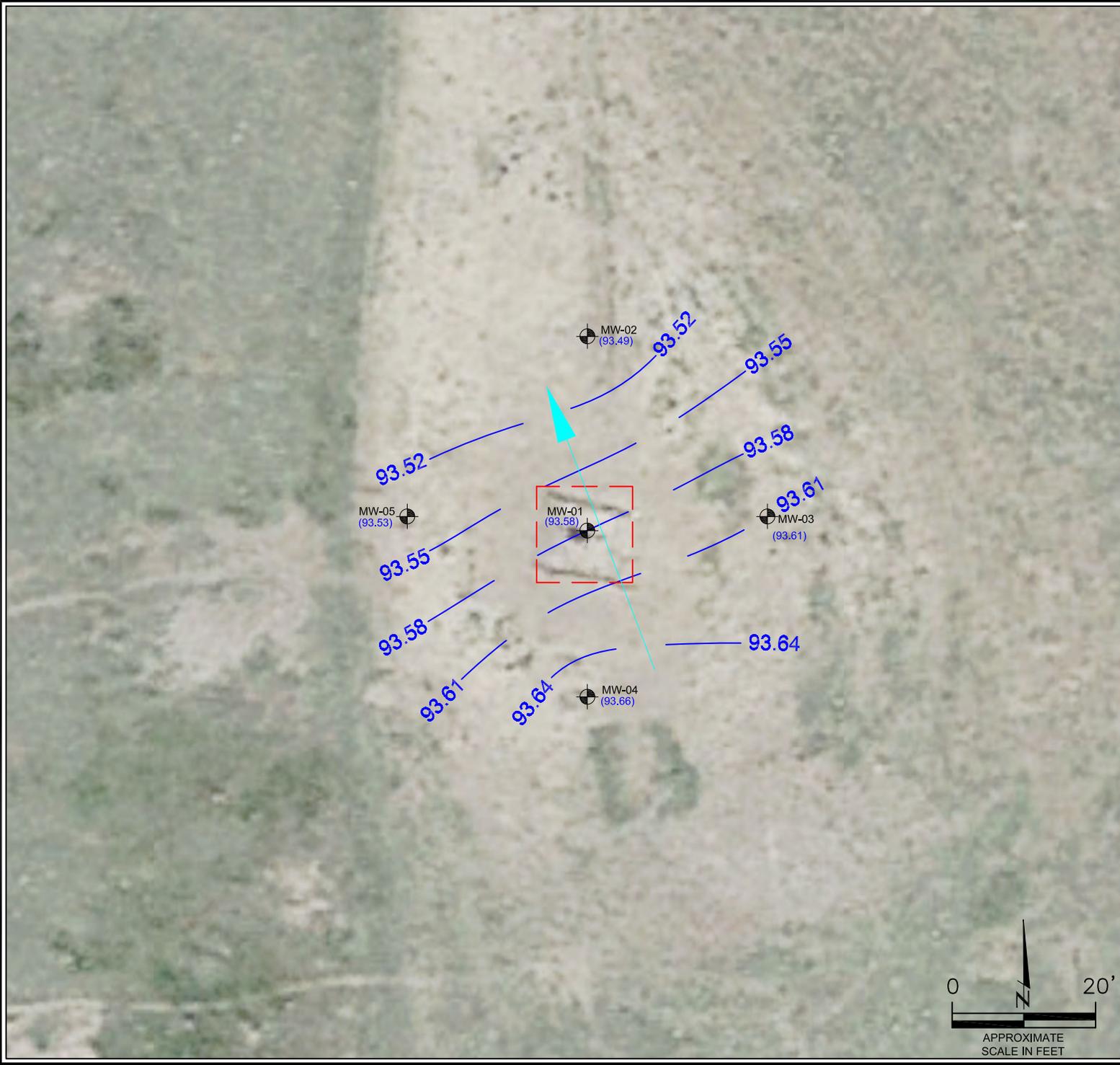
MW-04

MW-04  
 3/27/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.20  
 2-MN = <0.20  
 C = 144  
 S = 419  
 TDS= 912

MW-03

MW-03  
 3/27/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.20  
 2-MN = <0.20  
 C = 134  
 S = 492  
 TDS= 924





**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS
- (92.15) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED FROM ALL MONITORING WELLS ON 12/29/23.

HYDRAULIC GRADIENT (MW-04 TO MW-02): 0.003 FT./FT.

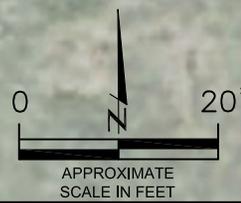
**GROUNDWATER ELEVATION MAP**  
(12/29/23)

McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDATION # 27419

FIGURE NO.  
2  
DRAWN BY:  
ZM



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## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Inorganic Groundwater Parameters Summary**

**Table 3: Groundwater Elevation Summary**

**TABLE 1  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDIAION # 27419**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	1-Methyl- naphthalene (µg/L)	2-Methyl- naphthalene (µg/L)
<b>ECMC Table 915-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>	--	--
<b>ECMC Narrative Groundwater Quality Standards* (µg/L)</b>		--	--	--	--	--	--	--	<b>1.1*</b>	<b>3.6*</b>
GW-01 (40.361788 / -104.680269)	04/25/23	<b>31.4</b>	166	27.1	429	3.76	<b>78.8</b>	49.7	NA	NA
MW-01 (40.361781 / -104.680281)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-02 (40.361868 / -104.680268)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-03 (40.361787 / -104.680164)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-04 (40.361710 / -104.680258)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-05 (40.6361785 / -104.680369)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200

ECMC = Energy and Carbon Management Commission  
µg/L - micrograms per liter

\*ECMC regulatory limits in groundwater have not been established for 1-methylnaphthalene and 2-methylnaphthalene. ECMC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for Tapwater, as incorporated by reference in Rule 901.b, tables for Target Risk ("TR") = 1x10<sup>-6</sup> and Target Hazard Quotient ("THQ")=0.1. The EPA RSL for Tapwater, and resultant narrative groundwater quality standard is 1.1 µg/L for 1-methylnaphthalene and 3.6 µg/L for 2-methylnaphthalene.

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.  
Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits.

**TABLE 2**  
**INORGANIC GROUNDWATER PARAMETERS SUMMARY**  
**McBAIN (BAINBRIDGE) #1**  
**HISTORICAL RELEASE**  
**40.361784 / -104.680276**  
**NE¼ NE¼ SEC.32 T5N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-12032**  
**REMEDIAION # 27419**

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
<i>ECMC Table 91-1 Regulatory Limits (mg/L)</i>		<b>&lt;1.25xLocal Background (159)</b>	<b>&lt;1.25xLocal Background (357)</b>	<b>&lt;1.25xLocal Background (1312)</b>
MW-01 (40.361781 / -104.680281)	09/19/23	130	302	1070
	12/29/23	114	241	786
MW-02 (40.361868 / -104.680268)	09/19/23	125	303	1130
	12/29/23	115	233	792
MW-03 (40.361787 / -104.680164)	09/19/23	125	273	990
	12/29/23	123	243	778
MW-04 (40.361710 / -104.680258)	09/19/23	127	286	1050
	12/29/23	113	245	774
MW-05 (40.6361785 / -104.680369)	09/19/23	123	299	1180
	12/29/23	113	238	752

ECMC - Energy and Carbon Management Commission  
mg/L - milligrams per liter

Note: The Groundwater Inorganic Parameters in monitoring well, MW-04, in September 2023 were used in the determination of "local background" levels at the site. Local "regulatory limit" (1.25\*local background) presented (in parentheses).

Values presented in **bold** typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).



**TABLE 3  
GROUNDWATER ELEVATION SUMMARY  
McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDATION # 27419**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation** (feet)	Stickup Height (feet)	Depth to Groundwater (feet) (bgs)
MW-01 (40.361781 / -104.680281)	09/19/23	99.57	4.54	95.03	2.72	1.82
	12/29/23		5.99	93.58		3.27
MW-02 (40.361868 / -104.680268)	09/19/23	99.90	4.99	94.91	3.13	1.86
	12/29/23		6.41	93.49		3.28
MW-03 (40.361787 / -104.680164)	09/19/23	99.95	4.92	95.03	2.88	2.04
	12/29/23		6.34	93.61		3.46
MW-04 (40.361710 / -104.680258)	09/19/23	99.64	4.55	95.09	2.93	1.62
	12/29/23		5.98	93.66		3.05
MW-05 (40.6361785 / -104.680369)	09/19/23	100.00	5.02	94.98	3.06	1.96
	12/29/23		6.47	93.53		3.41

**NOTES:**

LNAPL = Light Non Aqueous Phase Liquid

bgs = below ground surface

TOC = top of casing

DES = Destroyed

NA = Not Applicable

INA - Inaccessible

NM = Not Measured

\*\* = Groundwater elevations were corrected for LNAPL thickness within monitoring wells where LNAPL was present





## **ATTACHMENT A**

### **Laboratory Analytical Report (4Q23)**



January 09, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - McBain (BainBridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. December 29, 2023. This project is associated with Origins project number Y312776-01.

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 - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312776-01	Water	December 29, 2023 10:35	12/29/2023 13:20
MW-02	Y312776-02	Water	December 29, 2023 10:45	12/29/2023 13:20
MW-03	Y312776-03	Water	December 29, 2023 10:55	12/29/2023 13:20
MW-04	Y312776-04	Water	December 29, 2023 11:05	12/29/2023 13:20
MW-05	Y312776-05	Water	December 29, 2023 11:15	12/29/2023 13:20

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 - McBain (BainBridge) #1

www.originslaboratory.com

page | of |

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO, 80033  
 Telephone Number: 303-433-0714  
 Email Address: [anewberry@eagle-env.com](mailto:anewberry@eagle-env.com)

Project Manager: Andrew Newberry  
 Project Name: McBain (BainBridge) #1  
 Project Number:  
 Samples Collected By: AN

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysts	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
MW-01	12/17/23	10:35	1	X				X				1 MDS Media
MW-02		10:45										2
MW-03		10:55										3
MW-04		11:05										4
MW-05		11:15										5
												6
												7
												8
												9
												10

Relinquished By: *[Signature]* Date: 12/19/23 Time: 13:00  
 Received By: *[Signature]* Date: 12/20/23 Time: 13:20

Relinquished By: *[Signature]* Date: 12/19/23 Time: 13:00  
 Received By: *[Signature]* Date: 12/20/23 Time: 13:20

Turnaround Time: Same Day  24 Hr  48 Hr  72 Hr  Standard

Temp Received: 7  
 Date Results Needed: 12/20/23

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

Origins Laboratory, Inc.

*[Signature]*

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 - McBain (BainBridge) #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4127710

Client: Eagle  
 Client Project ID: McBain (Bainbridge)

Checklist Completed by: JSH/ehs

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

Date/time completed: 12/29/12

Airbill #: \_\_\_\_\_

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

Cooler Number/Temperature: 1, 7 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: 1004

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 checked="" type="checkbox"/>		<u>SD</u>
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 (> 1/2 inch bubble) present? If yes, contact client and note in narrative.			<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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+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: JSH (Project Manager)

Date/Time Reviewed: 1-2-24

Origins Laboratory, Inc.

*J. Bynon*

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 - McBain (BainBridge) #1

**MW-01**

**12/29/2023 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312776-01 (Water)**

**Anions by IC 300.0**

Chloride	114	31.2	mg/L	125	B4A0204	ACC	01/02/2024	01/02/2024	
Sulfate	241	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	786	5.00	"	1	B4A0219	KRM	01/02/2024	01/03/2024	
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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 - McBain (BainBridge) #1

**MW-02**

**12/29/2023 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312776-02 (Water)**

**Anions by IC 300.0**

Chloride	115	31.2	mg/L	125	B4A0204	ACC	01/02/2024	01/02/2024	
Sulfate	233	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	792	5.00	"	1	B4A0219	KRM	01/02/2024	01/03/2024	
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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 - McBain (BainBridge) #1

**MW-03**

**12/29/2023 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312776-03 (Water)**

**Anions by IC 300.0**

Chloride	123	31.2	mg/L	125	B4A0204	ACC	01/02/2024	01/02/2024	
Sulfate	243	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	778	5.00	"	1	B4A0219	KRM	01/02/2024	01/03/2024	
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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 - McBain (BainBridge) #1

**MW-04**

**12/29/2023 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312776-04 (Water)**

**Anions by IC 300.0**

Chloride	113	31.2	mg/L	125	B4A0204	ACC	01/02/2024	01/02/2024	
Sulfate	245	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	774	5.00	"	1	B4A0219	KRM	01/02/2024	01/03/2024	
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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 - McBain (BainBridge) #1

**MW-05**

**12/29/2023 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312776-05 (Water)**

**Anions by IC 300.0**

Chloride	113	31.2	mg/L	125	B4A0204	ACC	01/02/2024	01/02/2024	
Sulfate	238	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	752	5.00	"	1	B4A0219	KRM	01/02/2024	01/03/2024	
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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 - McBain (BainBridge) #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4A0204 - Filter .45um non acidified</b>										
<b>Blank (B4A0204-BLK1)</b>					Prepared: 01/02/2024 Analyzed: 01/02/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
<b>LCS (B4A0204-BS1)</b>					Prepared: 01/02/2024 Analyzed: 01/02/2024					
Chloride	3.93	0.250	mg/L	4.00		98.3	90-110			
Sulfate	3.91	0.250	"	4.00		97.6	90-110			
<b>Matrix Spike (B4A0204-MS1)</b>		<b>Source: Y312763-02</b>			Prepared: 01/02/2024 Analyzed: 01/04/2024					
Chloride	708		mg/L	500	224	96.9	90-110			
Sulfate	539		"	500	58.0	96.3	90-110			
<b>Matrix Spike Dup (B4A0204-MSD1)</b>		<b>Source: Y312763-02</b>			Prepared: 01/02/2024 Analyzed: 01/04/2024					
Chloride	705		mg/L	500	224	96.2	90-110	0.481	5	
Sulfate	537		"	500	58.0	95.7	90-110	0.506	5	
<b>Batch B4A0219 - NO PREP</b>										
<b>Blank (B4A0219-BLK1)</b>					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4A0219-BS1)</b>					Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	1030	5.00	mg/L	1030		99.6	90-110			
<b>Duplicate (B4A0219-DUP1)</b>		<b>Source: Y312763-05</b>			Prepared: 01/02/2024 Analyzed: 01/03/2024					
Total Dissolved Solids	860	5.00	mg/L		852			0.935	10	

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 - McBain (BainBridge) #1

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### Notes and Definitions

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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January 04, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - McBain (BainBridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. December 29, 2023. This project is associated with Origins project number Y312777-01.

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 - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312777-01	Water	December 29, 2023 10:35	12/29/2023 13:20
MW-02	Y312777-02	Water	December 29, 2023 10:45	12/29/2023 13:20
MW-03	Y312777-03	Water	December 29, 2023 10:55	12/29/2023 13:20
MW-04	Y312777-04	Water	December 29, 2023 11:05	12/29/2023 13:20
MW-05	Y312777-05	Water	December 29, 2023 11:15	12/29/2023 13:20

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 - McBain (BainBridge) #1



www.originslaboratory.com

31277

page | of

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0744  
 Email Address: andrew@eagle-enviro.com

Fax: 303.265.9645

Project Manager: Andrew Newberry  
 Project Name: McBain (BainBridge) #1  
 Project Number:  
 Samples Collected By: SK

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	1-Methylnaphthalene		2-Methylnaphthalene	3-Methylnaphthalene
MN-01	12/21/23	1035	3	X				X						1	Miles Needed
MN-02		1045	1											2	
MN-03		1055	1											3	
MN-04		1105	1											4	
MN-05		1115	1											5	
														6	
														7	
														8	
														9	
														10	

Relinquished By: [Signature]  
 Relinquished By: [Signature]

Date: 12/21/23 Time: 1320  
 Date: 12/21/23 Time: 1320

Received By: [Signature]  
 Received By: [Signature]

Date: 12/21/23 Time: 1320  
 Date: 12/21/23 Time: 1320

Turnaround Time:  
 Same Day  24 Hr   
 48 Hr  72 Hr   
 Standard

Temp Received: 7  
 Date Results Needed: 12/21/23

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 - McBain (BainBridge) #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: B12777

Client: Eagle

Client Project ID: McBain (Bainbridge)

Checklist Completed by: JSH/gms

Shipped Via: HL

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

Date/time completed: 12/29/23

Airbill #: N/A

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

Cooler Number/Temperature: 1, 7°c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c

Thermometer ID: 1004

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 checked="" type="checkbox"/>		<u>20</u>
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? If yes, contact client and note in narrative.		<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"/>			<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: JSH (Project Manager)

Date/Time Reviewed: 1-2-24

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 - McBain (BainBridge) #1

**MW-01**

**12/29/2023 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312777-01 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A0218	agile	01/02/2024	01/02/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	95.8 %	60-130			"	"		"	
Surrogate: Anthracene-d10	88.9 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"		"	
Surrogate: Pyrene-d10	110 %	60-130			"	"		"	

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 - McBain (BainBridge) #1

**MW-02**

**12/29/2023 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312777-02 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A0218	agile	01/02/2024	01/02/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	93.3 %	60-130			"	"		"	
Surrogate: Anthracene-d10	88.9 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.9 %	60-130			"	"		"	
Surrogate: Pyrene-d10	110 %	60-130			"	"		"	

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 - McBain (BainBridge) #1

**MW-03**

**12/29/2023 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312777-03 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A0218	agile	01/02/2024	01/02/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	92.0 %	60-130			"	"		"	
Surrogate: Anthracene-d10	90.2 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	97.9 %	60-130			"	"		"	
Surrogate: Pyrene-d10	115 %	60-130			"	"		"	

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 - McBain (BainBridge) #1

**MW-04**

**12/29/2023 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312777-04 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A0218	agile	01/02/2024	01/02/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	88.7 %	60-130			"	"		"	
Surrogate: Anthracene-d10	89.3 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	98.5 %	60-130			"	"		"	
Surrogate: Pyrene-d10	106 %	60-130			"	"		"	

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 - McBain (BainBridge) #1

**MW-05**

**12/29/2023 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312777-05 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A0218	agile	01/02/2024	01/02/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	88.4 %	60-130			"	"		"	
Surrogate: Anthracene-d10	81.3 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	105 %	60-130			"	"		"	
Surrogate: Pyrene-d10	113 %	60-130			"	"		"	

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 - McBain (BainBridge) #1

**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 B4A0218 - EPA 3510C\_MS**

**Blank (B4A0218-BLK1)**

Prepared: 01/02/2024 Analyzed: 01/02/2024

1-Methylnaphthalene	ND	0.200	ug/L							U
2-Methylnaphthalene	ND	0.200	"							U
Acenaphthene	ND	2.00	"							U
Anthracene	ND	2.00	"							U
Benzo (a) anthracene	ND	0.500	"							U
Benzo (a) pyrene	ND	2.00	"							U
Benzo (b) fluoranthene	ND	2.00	"							U
Benzo (g,h,i) perylene	ND	2.00	"							U
Benzo (k) fluoranthene	ND	2.00	"							U
Chrysene	ND	2.00	"							U
Dibenz (a,h) anthracene	ND	2.00	"							U
Fluoranthene	ND	2.00	"							U
Fluorene	ND	2.00	"							U
Indeno (1,2,3-cd) pyrene	ND	2.00	"							U
Naphthalene	ND	0.200	"							U
Phenanthrene	ND	2.00	"							U
Pyrene	ND	2.00	"							U
Surrogate: Fluorene-d10	190		"	200		97.1	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			

**LCS (B4A0218-BS1)**

Prepared: 01/02/2024 Analyzed: 01/02/2024

1-Methylnaphthalene	21.3	0.200	ug/L	20.0		107	70-130			
2-Methylnaphthalene	21.1	0.200	"	20.0		105	70-130			
Acenaphthene	20.5	2.00	"	20.0		102	70-130			
Anthracene	16.5	2.00	"	20.0		82.5	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 - McBain (BainBridge) #1

**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 B4A0218 - EPA 3510C\_MS**

**LCS (B4A0218-BS1)**

Prepared: 01/02/2024 Analyzed: 01/02/2024

Benzo (a) anthracene	19.7	0.500	ug/L	20.0		98.3	70-130			
Benzo (a) pyrene	18.6	2.00	"	20.0		92.8	70-130			
Benzo (b) fluoranthene	20.3	2.00	"	20.0		102	70-130			
Benzo (g,h,i) perylene	19.4	2.00	"	20.0		96.8	70-130			
Benzo (k) fluoranthene	17.4	2.00	"	20.0		86.9	70-130			
Chrysene	19.4	2.00	"	20.0		96.8	70-130			
Dibenz (a,h) anthracene	22.9	2.00	"	20.0		114	70-130			
Fluoranthene	21.1	2.00	"	20.0		106	70-130			
Fluorene	19.3	2.00	"	20.0		96.4	70-130			
Indeno (1,2,3-cd) pyrene	20.1	2.00	"	20.0		101	70-130			
Naphthalene	21.9	0.200	"	20.0		110	70-130			
Phenanthrene	18.6	2.00	"	20.0		93.1	70-130			
Pyrene	22.8	2.00	"	20.0		114	70-130			
Surrogate: Fluorene-d10	180		"	200		91.5	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			

**LCS Dup (B4A0218-BSD1)**

Prepared: 01/02/2024 Analyzed: 01/02/2024

1-Methylnaphthalene	20.6	0.200	ug/L	20.0		103	70-130	3.38	20	
2-Methylnaphthalene	20.5	0.200	"	20.0		103	70-130	2.77	20	
Acenaphthene	20.2	2.00	"	20.0		101	70-130	1.18	20	
Anthracene	16.6	2.00	"	20.0		82.8	70-130	0.326	20	
Benzo (a) anthracene	18.2	0.500	"	20.0		91.1	70-130	7.58	20	
Benzo (a) pyrene	18.7	2.00	"	20.0		93.5	70-130	0.787	20	
Benzo (b) fluoranthene	20.0	2.00	"	20.0		100	70-130	1.42	20	
Benzo (g,h,i) perylene	19.5	2.00	"	20.0		97.7	70-130	0.954	20	

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 - McBain (BainBridge) #1

**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 B4A0218 - EPA 3510C\_MS**

**LCS Dup (B4A0218-BSD1)**

Prepared: 01/02/2024 Analyzed: 01/02/2024

Benzo (k) fluoranthene	18.2	2.00	ug/L	20.0		91.1	70-130	4.77	20	
Chrysene	19.1	2.00	"	20.0		95.6	70-130	1.32	20	
Dibenz (a,h) anthracene	22.9	2.00	"	20.0		114	70-130	0.0293	20	
Fluoranthene	20.8	2.00	"	20.0		104	70-130	1.43	20	
Fluorene	21.4	2.00	"	20.0		107	70-130	10.5	20	
Indeno (1,2,3-cd) pyrene	21.7	2.00	"	20.0		109	70-130	7.59	20	
Naphthalene	21.5	0.200	"	20.0		108	70-130	1.85	20	
Phenanthrene	18.4	2.00	"	20.0		92.2	70-130	1.04	20	
Pyrene	20.8	2.00	"	20.0		104	70-130	9.29	20	
Surrogate: Fluorene-d10	210		"	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.1	60-130			

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 - McBain (BainBridge) #1

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**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.



*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.*

---

Jen Pellegrini For Jordan A. Bynon, Project Manager



January 03, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - McBain (BainBridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - McBain (BainBridge) #1 received by Origins Laboratory, Inc. December 29, 2023. This project is associated with Origins project number Y312778-01.

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 - McBain (BainBridge) #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312778-01	Water	December 29, 2023 10:35	12/29/2023 13:20
MW-02	Y312778-02	Water	December 29, 2023 10:45	12/29/2023 13:20
MW-03	Y312778-03	Water	December 29, 2023 10:55	12/29/2023 13:20
MW-04	Y312778-04	Water	December 29, 2023 11:05	12/29/2023 13:20
MW-05	Y312778-05	Water	December 29, 2023 11:15	12/29/2023 13:20

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 - McBain (BainBridge) #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 432778

Client: Eagle

Client Project ID: McBain (Bainbridge)

Checklist Completed by: JAV/EMS

Shipped Via: TD

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

Date/time completed: 12/29/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 7 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

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

Date/Time Reviewed 1-2-24

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 - McBain (BainBridge) #1

**MW-01**

**12/29/2023 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312778-01 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L2930	JSM	12/29/2023	12/29/2023	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	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	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 - McBain (BainBridge) #1

**MW-02**

**12/29/2023 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312778-02 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L2930	JSM	12/29/2023	12/29/2023	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	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	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 - McBain (BainBridge) #1

**MW-03**

**12/29/2023 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312778-03 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L2930	JSM	12/29/2023	12/29/2023	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	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	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 - McBain (BainBridge) #1

**MW-04**

**12/29/2023 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312778-04 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L2930	JSM	12/29/2023	12/29/2023	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	99.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	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 - McBain (BainBridge) #1

**MW-05**

**12/29/2023 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312778-05 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L2930	JSM	12/29/2023	12/29/2023	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	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 - McBain (BainBridge) #1

**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 B3L2930 - EPA 5030B (Water)**

**Blank (B3L2930-BLK1)**

Prepared: 12/29/2023 Analyzed: 12/29/2023

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	62		"	62.5	98.5		70-130			
Surrogate: Toluene-d8	64		"	62.5	103		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	104		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 - McBain (BainBridge) #1

**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 B3L2930 - EPA 5030B (Water)**

**LCS (B3L2930-BS1)**

Prepared: 12/29/2023 Analyzed: 12/29/2023

1,2,4-Trimethylbenzene	53.6	2.00	ug/L	50.0		107	70-130			
1,3,5-Trimethylbenzene	50.3	2.00	"	50.0		101	70-130			
Benzene	47.8	1.00	"	50.0		95.5	70-130			
Ethylbenzene	47.0	1.00	"	50.0		94.0	70-130			
m,p-Xylene	95.4	2.00	"	100		95.4	70-130			
Naphthalene	52.8	2.00	"	50.0		106	70-130			
o-Xylene	47.0	1.00	"	50.0		94.1	70-130			
Toluene	47.9	1.00	"	50.0		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 - McBain (BainBridge) #1

**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 B3L2930 - EPA 5030B (Water)**

<b>Matrix Spike (B3L2930-MS1)</b>	<b>Source: Y312778-01</b>			<b>Prepared: 12/29/2023 Analyzed: 12/29/2023</b>						
1,2,4-Trimethylbenzene	54.6	2.00	ug/L	50.0	ND	109	70-130			
1,3,5-Trimethylbenzene	50.8	2.00	"	50.0	ND	102	70-130			
Benzene	48.2	1.00	"	50.0	ND	96.5	70-130			
Ethylbenzene	47.3	1.00	"	50.0	ND	94.5	70-130			
m,p-Xylene	96.9	2.00	"	100	ND	96.9	70-130			
Naphthalene	50.8	2.00	"	50.0	0.570	101	70-130			
o-Xylene	47.4	1.00	"	50.0	ND	94.9	70-130			
Toluene	48.6	1.00	"	50.0	ND	97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	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 - McBain (BainBridge) #1

**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 B3L2930 - EPA 5030B (Water)**

Matrix Spike Dup (B3L2930-MSD1)	Source: Y312778-01			Prepared: 12/29/2023 Analyzed: 12/29/2023						
1,2,4-Trimethylbenzene	53.0	2.00	ug/L	50.0	ND	106	70-130	3.03	20	
1,3,5-Trimethylbenzene	49.4	2.00	"	50.0	ND	98.8	70-130	2.87	20	
Benzene	46.1	1.00	"	50.0	ND	92.1	70-130	4.62	20	
Ethylbenzene	46.0	1.00	"	50.0	ND	92.0	70-130	2.77	20	
m,p-Xylene	92.9	2.00	"	100	ND	92.9	70-130	4.26	20	
Naphthalene	54.0	2.00	"	50.0	0.570	107	70-130	6.10	20	
o-Xylene	46.6	1.00	"	50.0	ND	93.3	70-130	1.72	20	
Toluene	46.8	1.00	"	50.0	ND	93.5	70-130	3.90	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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 - McBain (BainBridge) #1

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**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.



*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.*

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Jen Pellegrini For Jordan A. Bynon, Project Manager