



FIGURES

Figure 1: Groundwater Analytical Map (01/19/24)

Figure 2: Groundwater Elevation Map (01/19/24)

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
-  APPROXIMATE 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)
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 (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

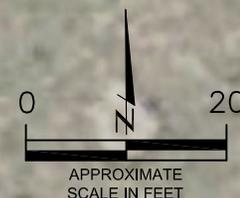
GROUNDWATER ANALYTICAL MAP
 (01/19/24)
 HUNTSMAN G #13-10
 HISTORICAL RELEASE
 40.310797 / -104.608747
 NW¼ SE¼ SEC.13 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14664
 REMEDIATION # 25096

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



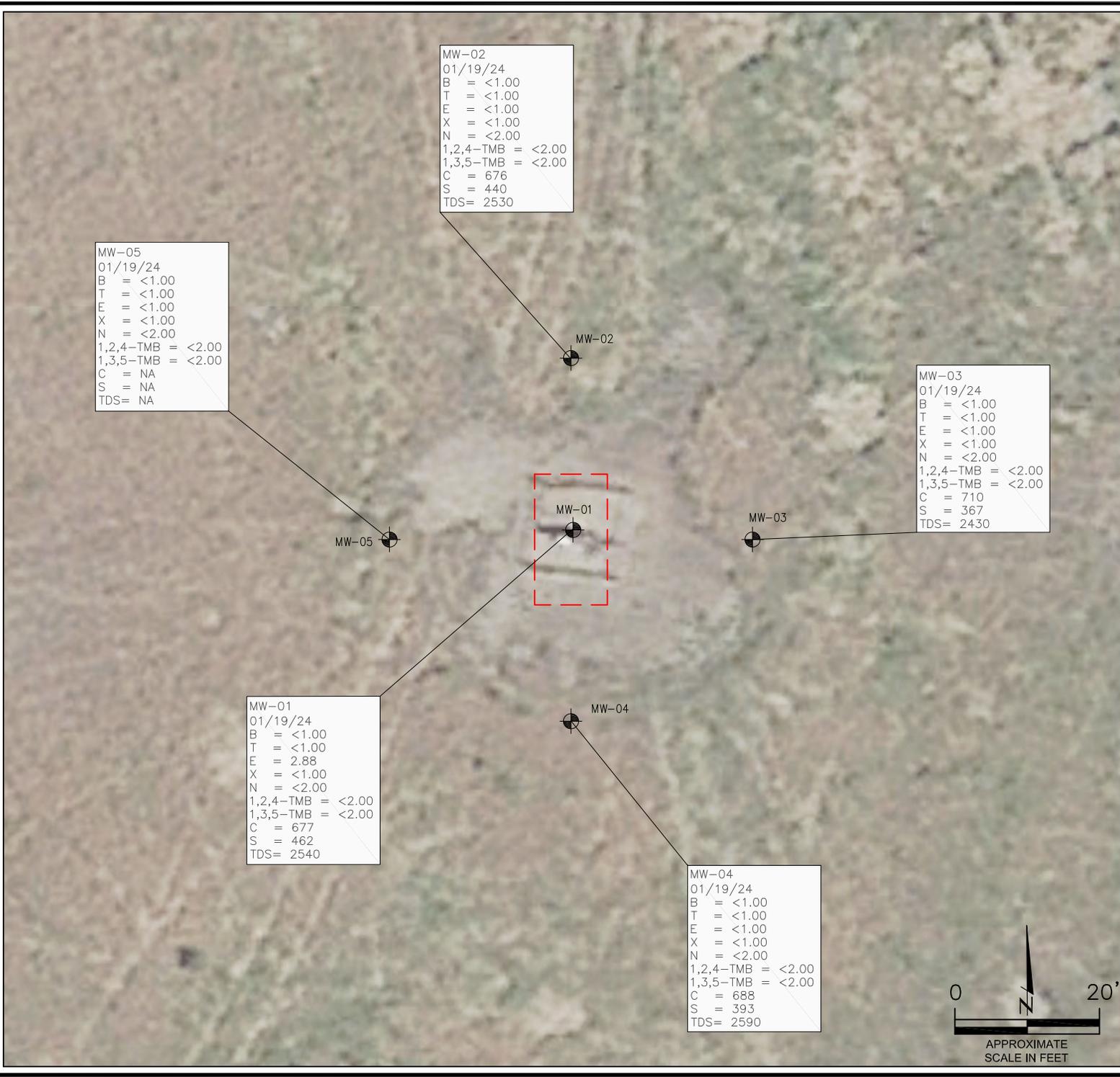
MW-02
 01/19/24
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 676
 S = 440
 TDS= 2530

MW-05
 01/19/24
 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
 C = NA
 S = NA
 TDS= NA

MW-03
 01/19/24
 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
 C = 710
 S = 367
 TDS= 2430

MW-01
 01/19/24
 B = <1.00
 T = <1.00
 E = 2.88
 X = <1.00
 N = <2.00
 1,2,4-TMB = <2.00
 1,3,5-TMB = <2.00
 C = 677
 S = 462
 TDS= 2540

MW-04
 01/19/24
 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
 C = 688
 S = 393
 TDS= 2590



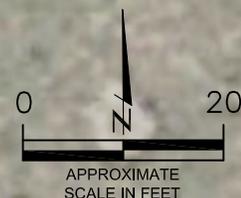
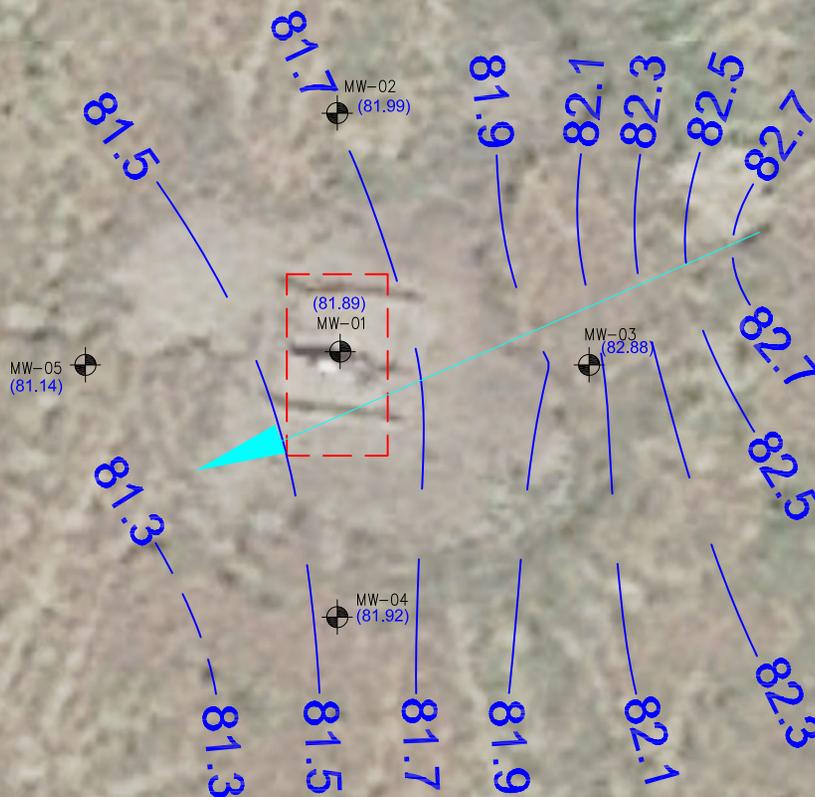
LEGEND

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

FT. = FEET

NOTES:
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 01/19/24.

HYDRAULIC GRADIENT = 0.035 FT./FT.



GROUNDWATER ELEVATION MAP
(01/19/24)
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW¼ SE¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-14664
REMEDIAION # 25096

FIGURE NO.
2

DRAWN BY:
ZM



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



TABLES

Table 1: Groundwater Analytical Results Summary

Table 2: Inorganic Groundwater Parameters Summary

Table 3: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW1/4 SE1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDATION # 25096

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)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67
MW-01 (40.310811 / -104.608756)	10/17/23	<1.00	<1.00	2.88	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.310874 / -104.608760)	10/17/23	<1.00	<1.00	2.84	<1.00	<2.00	2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.310803 / -104.608669)	10/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.310742 / -104.608763)	10/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.310813 / -104.608848)	10/17/23	<1.00	<1.00	2.82	<1.00	<2.00	<2.00	<2.00
	01/19/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00

ECMC = Energy & Carbon Management Commission

µg/L - micrograms per liter

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.

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

Values presented in **bold**+ asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels



TABLE 2
INORGANIC GROUNDWATER PARAMETERS SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NW1/4 SE1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDIAATION # 25096

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
ECMC Table 915-1 Regulatory Limits (mg/L)		<1.25xLocal Background (908)	<1.25xLocal Background (708)	<1.25xLocal Background (3112)
MW-01 (40.310811 / -104.608756)	10/17/23	754	625	2650
	01/19/24	677	462	2540
MW-02 (40.310874 / -104.608760)	10/17/23	727	567	2490
	01/19/24	676	440	2530
MW-03 (40.310803 / -104.608669)	10/17/23	755	449	2490
	01/19/24	710	367	2430
MW-04 (40.310742 / -104.608763)	10/17/23	763	573	2570
	01/19/24	688	393	2590
MW-05 (40.310813 / -104.608848)	10/17/23	639	451	2120
	01/19/24	NA		

Notes:

ECMC = Energy & Carbon Management Commission

mg/L = milligrams per liter

Note: The Inorganic Groundwater Parameters of upgradient monitoring well MW-02, October 2023, were used in the determination of "local background range" at the site. Local "regulatory limit/range" (1.25*local background) presented (in parentheses).

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



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

**TABLE 3
GROUNDWATER ELEVATION SUMMARY
HUNTSMAN G #13-10
HISTORICAL RELEASE
40.310797 / -104.608747
NE1/4 SW1/4 SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 483364
REMEDICATION # 25096**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.310811 / -104.608756)	10/17/23	99.25	16.53	82.72
	01/19/24		17.36	81.89
MW-02 (40.310874 / -104.608760)	10/17/23	99.45	16.32	83.13
	01/19/24		17.46	81.99
MW-03 (40.310803 / -104.608669)	10/17/23	100	17.38	82.62
	01/19/24		17.12	82.88
MW-04 (40.310742 / -104.608763)	10/17/23	99.09	16.22	82.87
	01/19/24		17.17	81.92
MW-05 (40.310813 / -104.608848)	10/17/23	99.17	16.60	82.57
	01/19/24		18.03	81.14
NOTES: TOC - top of casing				





ATTACHMENT A

Laboratory Analytical Reports



February 12, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. January 19, 2024. This project is associated with Origins project number Y401468-01.

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 - Huntsman G #13-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y401468-01	Water	January 19, 2024 12:00	01/19/2024 14:50
MW-02	Y401468-02	Water	January 19, 2024 12:40	01/19/2024 14:50
MW-03	Y401468-03	Water	January 19, 2024 12:50	01/19/2024 14:50
MW-04	Y401468-04	Water	January 19, 2024 12:20	01/19/2024 14:50

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 - Huntsman G #13-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401428 Client: Eagle
 Client Project ID: Huntsman G 13-10
 Checklist Completed by: EHS Shipped Via: L10
 Date/time completed: 1/19/24 (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 / 3.6 °C 1 °C 1 °C (Describe) °C
 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 ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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)			/	
Additional Comments (if any):				

⁽¹⁾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 1/22/24

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 - Huntsman G #13-10

MW-01

1/19/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y401468-01 (Water)

Anions by IC 300.0

Chloride	677	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	462	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2540	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 - Huntsman G #13-10

MW-02

1/19/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y401468-02 (Water)

Anions by IC 300.0

Chloride	676	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	440	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2530	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 - Huntsman G #13-10

MW-03

1/19/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y401468-03 (Water)

Anions by IC 300.0

Chloride	710	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	367	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2430	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 - Huntsman G #13-10

MW-04

1/19/2024 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y401468-04 (Water)

Anions by IC 300.0

Chloride	688	31.2	mg/L	125	B4A2305	STW	01/23/2024	01/25/2024	
Sulfate	393	31.2	"	"	"	STW	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2590	5.00	"	1	B4A2217	KRM	01/22/2024	01/23/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 - Huntsman G #13-10

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2217 - NO PREP										
Blank (B4A2217-BLK1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Total Dissolved Solids	ND	5.00	mg/L							U
LCS (B4A2217-BS1)					Prepared: 01/22/2024 Analyzed: 01/23/2024					
Total Dissolved Solids	996	5.00	mg/L	1030		96.7	90-110			
Duplicate (B4A2217-DUP1)		Source: Y401454-08			Prepared: 01/22/2024 Analyzed: 01/23/2024					
Total Dissolved Solids	12200	5.00	mg/L		12100			1.18	10	
Batch B4A2305 - Filter .45um non acidified										
Blank (B4A2305-BLK1)					Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
LCS (B4A2305-BS1)					Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	3.78	0.250	mg/L	4.00		94.4	90-110			
Sulfate	3.86	0.250	"	4.00		96.4	90-110			
Matrix Spike (B4A2305-MS1)		Source: Y401474-01			Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	1040		mg/L	500	616	84.6	90-110			QM-07
Sulfate	3500		"	500	2860	130	90-110			QM-07
Matrix Spike Dup (B4A2305-MSD1)		Source: Y401474-01			Prepared: 01/23/2024 Analyzed: 01/25/2024					
Chloride	1030		mg/L	500	616	83.4	90-110	0.543	5	QM-07
Sulfate	3500		"	500	2860	129	90-110	0.107	5	QM-07

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 - Huntsman G #13-10

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. January 19, 2024. This project is associated with Origins project number Y401470-01.

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.

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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 - Huntsman G #13-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y401470-01	Water	January 19, 2024 12:00	01/19/2024 14:50
MW-02	Y401470-02	Water	January 19, 2024 12:40	01/19/2024 14:50
MW-03	Y401470-03	Water	January 19, 2024 12:50	01/19/2024 14:50
MW-04	Y401470-04	Water	January 19, 2024 12:20	01/19/2024 14:50
MW-05	Y401470-05	Water	January 19, 2024 13:00	01/19/2024 14:50

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 - Huntsman G #13-10

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4401470 Client: Eagle
 Client Project ID: Huntsman G 13-10
 Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 1/19/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 113.0 °C 1 °C 1 °C 1 °C
 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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
Additional Comments (if any):				

⁽¹⁾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 1/22/24

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 - Huntsman G #13-10

MW-01

1/19/2024 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401470-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130			"	"	"	"	

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 - Huntsman G #13-10

MW-02

1/19/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401470-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

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 - Huntsman G #13-10

MW-03

1/19/2024 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401470-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	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 - Huntsman G #13-10

MW-04

1/19/2024 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401470-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	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 - Huntsman G #13-10

MW-05
1/19/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401470-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A2220	JSM	01/22/2024	01/22/2024	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	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %	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 - Huntsman G #13-10

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
Batch B4A2220 - EPA 5030B (Water)										
Blank (B4A2220-BLK1)										
					Prepared: 01/22/2024 Analyzed: 01/22/2024					
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	99.3		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.9		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 - Huntsman G #13-10

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 B4A2220 - EPA 5030B (Water)

LCS (B4A2220-BS1)

Prepared: 01/22/2024 Analyzed: 01/22/2024

1,2,4-Trimethylbenzene	47.3	2.00	ug/L	50.0		94.7	70-130			
1,3,5-Trimethylbenzene	47.5	2.00	"	50.0		94.9	70-130			
Benzene	42.0	1.00	"	50.0		83.9	70-130			
Ethylbenzene	45.4	1.00	"	50.0		90.8	70-130			
m,p-Xylene	89.9	2.00	"	100		89.9	70-130			
Naphthalene	41.0	2.00	"	50.0		82.0	70-130			
o-Xylene	44.0	1.00	"	50.0		88.0	70-130			
Toluene	45.2	1.00	"	50.0		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	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 - Huntsman G #13-10

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 B4A2220 - EPA 5030B (Water)

Matrix Spike (B4A2220-MS1)	Source: Y401470-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	50.6	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	52.3	2.00	"	50.0	ND	105	70-130			
Benzene	55.2	1.00	"	50.0	ND	110	70-130			
Ethylbenzene	51.2	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
Naphthalene	36.7	2.00	"	50.0	ND	73.4	70-130			
o-Xylene	48.3	1.00	"	50.0	ND	96.6	70-130			
Toluene	52.2	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	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 - Huntsman G #13-10

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 B4A2220 - EPA 5030B (Water)

Matrix Spike Dup (B4A2220-MSD1)	Source: Y401470-01			Prepared: 01/22/2024 Analyzed: 01/22/2024						
1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0	ND	103	70-130	1.99	20	
1,3,5-Trimethylbenzene	54.0	2.00	"	50.0	ND	108	70-130	3.18	20	
Benzene	57.8	1.00	"	50.0	ND	116	70-130	4.69	20	
Ethylbenzene	53.3	1.00	"	50.0	ND	107	70-130	3.96	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	5.42	20	
Naphthalene	40.0	2.00	"	50.0	ND	79.9	70-130	8.53	20	
o-Xylene	50.7	1.00	"	50.0	ND	101	70-130	4.77	20	
Toluene	55.7	1.00	"	50.0	ND	111	70-130	6.45	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	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 - Huntsman G #13-10

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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Jordan A. Bynon, Project Manager