



FIGURES

Figure 1: Groundwater Analytical Map (05/13/24)

Figure 2: Groundwater Elevation Map (05/13/24)

MW-02
05/13/24
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-METHYLNAPHTHALENE = <0.200
C = 302
S = 516
T = 1820

MW-03
05/13/24
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-METHYLNAPHTHALENE = <0.200
C = 309
S = 516
T = 1830

MW-05
05/13/24
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-METHYLNAPHTHALENE = <0.200
C = 307
S = 528
T = 1760

MW-01
05/13/24
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-METHYLNAPHTHALENE = <0.200
C = 288
S = 530
T = 1830

MW-04
05/13/24
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-METHYLNAPHTHALENE = <0.200
C = 280
S = 521
T = 1870



LEGEND

--- INITIAL 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-METHYLNAPHTHALENE (µg/L)
2-METHYLNAPHTHALENE (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 AND/OR ECMC NARRATIVE GROUNDWATER QUALITY STANDARDS*.

*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")=1x10⁻⁶ AND TARGET HAZARD QUOTIENT ("THQ")=0.1. THE EPA RSL FOR TAPWATER, AND RESULTANT NARRATIVE GROUNDWATER QUALITY STANDARDS ARE 1.1 µg/L FOR 1-METHYLNAPHTHALENE AND 3.6 µg/L FOR 2-METHYLNAPHTHALENE.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

GROUNDWATER ANALYTICAL MAP
(05/13/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

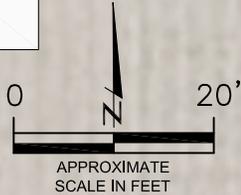
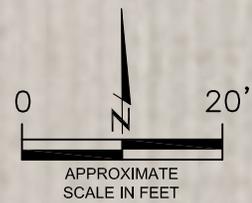
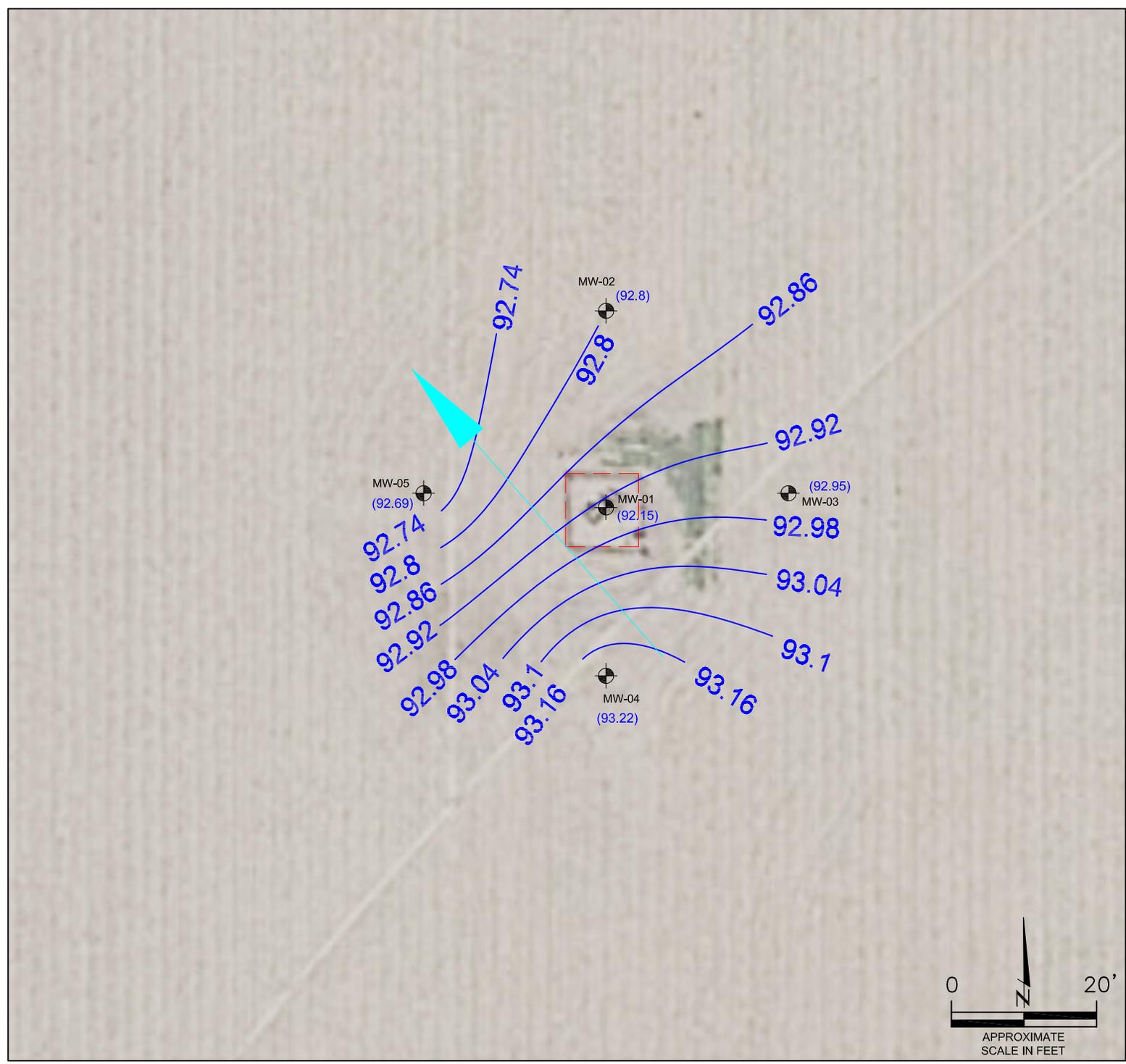


FIGURE NO.
1
DRAWN BY:
RS

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



LEGEND

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

FT. = FEET

NOTES:
GROUNDWATER ELEVATION DATA WERE COLLECTED ON 05/13/24.

GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELL MW-01 WERE NOT USED IN THE CREATION OF INFERRED GROUNDWATER ELEVATION CONTOURS.

HYDRAULIC GRADIENT = 0.014

GROUNDWATER ELEVATION MAP
(05/13/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDIAATION # 22548

FIGURE NO.
2

DRAWN BY:
RS



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: Inorganics Groundwater Parameters Summary

Table 3: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW1/4 SW1/4 SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl benzene (µg/L)	1,3,5 - Trimethyl benzene (µg/L)	1-Methyl- naphthale ne (µg/L)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67	--
ECMC Narrative Groundwater Quality Standards* (µg/L)		--	--	--	--	--	--	--	1.1*
MW-01 (40.266796 / -104.770978)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-02 (40.266838 / -104.770976)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-03 (40.266765 / -104.770909)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-04 (40.266721 / -104.770986)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-05 (40.266781 / -104.771051)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200

Notes:
 ECMC = Energy & Carbon Management Commission NA = Not Analyzed INA = Inaccessible
 µg/L = micrograms per liter DES = Destroyed NOP = Not on plan
 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).



TABLE 2
INORGANIC GROUNDWATER PARAMETERS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW1/4 SW1/4 SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDIATION # 22548

Sample Location (Latitude/Longitude)	Date	Chlorides (mg/L)	Sulfates (mg/L)	Total Dissolved Solids (mg/L)
ECMC Table 915-1 Regulatory Limits (mg/L)		1.25 x Local Background (350 to 386)	1.25 x Local Background (652 to 656)	1.25 x Local Background (2288 to 2338)
MW-01 (40.266796 / -104.770978)	02/07/24	243	552	1780
	05/13/24	288	530	1830
MW-02 (40.266838 / -104.770976)	02/07/24	252	513	1760
	05/13/24	302	516	1820
MW-03 (40.266765 / -104.770909)	02/07/24	262	525	1710
	05/13/24	309	516	1830
MW-04 (40.266721 / -104.770986)	02/07/24	244	522	1760
	05/13/24	280	521	1870
MW-05 (40.266781 / -104.771051)	02/07/24	248	542	1710
	05/13/24	307	528	1760

mg/L - milligrams per liter

NA - Not Analyzed

Note: The Groundwater Inorganic Parameters in up-gradient monitoring well MW-04 and cross-gradient MW-03 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
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW1/4 SW1/4 SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDIATION # 22548**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.266796 / -104.770978)	02/07/24	98.93	7.06	91.87
	05/13/24		6.78	92.15
MW-02 (40.266838 / -104.770976)	02/07/24	99.61	7.11	92.50
	05/13/24		6.81	92.80
MW-03 (40.266765 / -104.770909)	02/07/24	99.72	7.11	92.61
	05/13/24		6.77	92.95
MW-04 (40.266721 / -104.770986)	02/07/24	100.00	7.09	92.91
	05/13/24		6.78	93.22
MW-05 (40.266781 / -104.771051)	02/07/24	99.99	7.53	92.46
	05/13/24		7.30	92.69

NOTES:

bgs = below ground surface
NA = Not Applicable

TOC = Top of Casing
DES = Destroyed

INA = Inaccessible





ATTACHMENT A

Laboratory Analytical Reports



June 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405394-01.

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 - Sandau #34-12F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405394-01	Water	May 13, 2024 13:40	05/13/2024 15:46
MW-02	Y405394-02	Water	May 13, 2024 13:45	05/13/2024 15:46
MW-03	Y405394-03	Water	May 13, 2024 13:50	05/13/2024 15:46
MW-04	Y405394-04	Water	May 13, 2024 14:00	05/13/2024 15:46
MW-05	Y405394-05	Water	May 13, 2024 14:10	05/13/2024 15:46

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 - Sandau #34-12F

ORIGINS LABORATORY LLC
 Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303-433-0479
 Email Address: anewberry@eagle-environ.com

ORIGINS WORK ORDER # **Y405394** Page 1 of 1

Project Manager: Andrew Newberry
 Project Name: Sandau #34-12F
 Project Number: _____
 Collected By: JH
 Invoice/Billing Info: Bill to Dan Noble

Key:
 W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NAOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	MW-01	5/8/24	1340	1	GW	UNP	XXX	
2	MW-02	↓	1345	↓	↓	↓	↓	
3	MW-03	↓	1350	↓	↓	↓	↓	
4	MW-04	↓	1400	↓	↓	↓	↓	
5	MW-05	↓	1410	↓	↓	↓	↓	
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 5/13/24 Time: 1546
 Received By: [Signature] Date: 5/13/24 Time: 1546

Relinquished By: [Signature] Date: 5/13/24 Time: 1546
 Received By: [Signature] Date: 5/13/24 Time: 1546

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard Yes No

Temp Received: 4.6 Received On Ice? Yes No

For Lab Sample Receiving Only:
 1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

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 - Sandau #34-12F

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V405394

Client: Eagle

Client Project ID: Sandau # 34-12 F

Checklist Completed by: SA 1

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

Date/time completed: 5/13/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.6 °C 1 / °C 1 / °C 1 / °C (Describe)

Thermometer ID: TOOS

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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]

5/15/24
 Date/Time Reviewed

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 - Sandau #34-12F

MW-01

5/13/2024 1:40:00PM

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

Origins Laboratory, Inc.
Y405394-01 (Water)

Anions by IC 300.0

Chloride	288	31.2	mg/L	125	B4E1403	DLT	05/14/2024	05/15/2024	
Sulfate	530	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1830	5.00	"	1	B4E1534	KRM	05/15/2024	05/16/2024	
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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 - Sandau #34-12F

MW-02

5/13/2024 1:45:00PM

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

Origins Laboratory, Inc.
Y405394-02 (Water)

Anions by IC 300.0

Chloride	302	31.2	mg/L	125	B4E1403	DLT	05/14/2024	05/15/2024	
Sulfate	516	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1820	5.00	"	1	B4E1534	KRM	05/15/2024	05/16/2024	
------------------------	-------------	------	---	---	---------	-----	------------	------------	--

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 - Sandau #34-12F

MW-03

5/13/2024 1:50:00PM

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

Origins Laboratory, Inc.
Y405394-03 (Water)

Anions by IC 300.0

Chloride	309	31.2	mg/L	125	B4E1403	DLT	05/14/2024	05/15/2024	
Sulfate	516	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1830	5.00	"	1	B4E1534	KRM	05/15/2024	05/16/2024	
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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 - Sandau #34-12F

MW-04

5/13/2024 2:00:00PM

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

Origins Laboratory, Inc.
Y405394-04 (Water)

Anions by IC 300.0

Chloride	280	31.2	mg/L	125	B4E1403	DLT	05/14/2024	05/15/2024	
Sulfate	521	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1870	5.00	"	1	B4E1534	KRM	05/15/2024	05/16/2024	
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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 - Sandau #34-12F

MW-05

5/13/2024 2:10:00PM

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

Origins Laboratory, Inc.
Y405394-05 (Water)

Anions by IC 300.0

Chloride	307	31.2	mg/L	125	B4E1403	DLT	05/14/2024	05/15/2024	
Sulfate	528	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1760	5.00	"	1	B4E1534	KRM	05/15/2024	05/16/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 - Sandau #34-12F

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 B4E1403 - Filter .45um non acidified										
Blank (B4E1403-BLK1)					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4E1403-BS1)					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Chloride	4.09	0.250	mg/L	4.00		102	90-110			
Sulfate	3.88	0.250	"	4.00		97.0	90-110			
Matrix Spike (B4E1403-MS1)		Source: Y405393-02			Prepared: 05/14/2024 Analyzed: 05/15/2024					
Chloride	614		mg/L	500	110	101	90-110			
Sulfate	976		"	500	479	99.3	90-110			
Matrix Spike Dup (B4E1403-MSD1)		Source: Y405393-02			Prepared: 05/14/2024 Analyzed: 05/15/2024					
Chloride	615		mg/L	500	110	101	90-110	0.142	5	
Sulfate	977		"	500	479	99.6	90-110	0.154	5	
Batch B4E1534 - NO PREP										
Blank (B4E1534-BLK1)					Prepared: 05/15/2024 Analyzed: 05/16/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4E1534-BS1)					Prepared: 05/15/2024 Analyzed: 05/16/2024					
Total Dissolved Solids	968	5.00	mg/L	1070		90.5	90-110			
Duplicate (B4E1534-DUP1)		Source: Y405377-10			Prepared: 05/15/2024 Analyzed: 05/16/2024					
Total Dissolved Solids	958	5.00	mg/L		976			1.86	10	

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 - Sandau #34-12F

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.



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.



June 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405397-01.

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 - Sandau #34-12F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405397-01	Water	May 13, 2024 13:40	05/13/2024 15:46
MW-02	Y405397-02	Water	May 13, 2024 13:45	05/13/2024 15:46
MW-03	Y405397-03	Water	May 13, 2024 13:50	05/13/2024 15:46
MW-04	Y405397-04	Water	May 13, 2024 14:00	05/13/2024 15:46
MW-05	Y405397-05	Water	May 13, 2024 14:10	05/13/2024 15:46

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 - Sandau #34-12F

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y405397

Client: Eagle

Client Project ID: Sandau # 34 -12F

Checklist Completed by: SA 1

Shipped Via: 40

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

Date/time completed: 5/13/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 46 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 7005

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/			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)

Date/Time Reviewed

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 - Sandau #34-12F

MW-01

5/13/2024 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405397-01 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4E2031	Windo	05/20/2024	05/20/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	100 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	102 %	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 - Sandau #34-12F

MW-02

5/13/2024 1:45:00PM

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

Origins Laboratory, Inc.
Y405397-02 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4E2031	Windo	05/20/2024	05/20/2024	U
---------------------	----	-------	------	---	---------	-------	------------	------------	---

Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	99.4 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	93.0 %	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 - Sandau #34-12F

MW-03

5/13/2024 1:50:00PM

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

Origins Laboratory, Inc.
Y405397-03 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4E2031	Windo	05/20/2024	05/20/2024	U
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Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	99.3 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	103 %	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 - Sandau #34-12F

MW-04

5/13/2024 2:00:00PM

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

Origins Laboratory, Inc.
Y405397-04 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4E2031	Windo	05/20/2024	05/20/2024	U
---------------------	----	-------	------	---	---------	-------	------------	------------	---

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	102 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.7 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	87.6 %	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 - Sandau #34-12F

MW-05

5/13/2024 2:10:00PM

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

Origins Laboratory, Inc.
Y405397-05 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4E2031	Windo	05/20/2024	05/20/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	101 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	100 %	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 - Sandau #34-12F

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 B4E2031 - EPA 3510C_MS

Blank (B4E2031-BLK1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

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
<hr/>										
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	180		"	200		92.3	60-130			

LCS (B4E2031-BS1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

1-Methylnaphthalene	19.9	0.200	ug/L	20.0		99.6	70-130			
2-Methylnaphthalene	19.9	0.200	"	20.0		99.4	70-130			
Acenaphthene	19.7	2.00	"	20.0		98.6	70-130			
Anthracene	19.7	2.00	"	20.0		98.6	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 - Sandau #34-12F

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4E2031 - EPA 3510C_MS

LCS (B4E2031-BS1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

Benzo (a) anthracene	20.9	0.500	ug/L	20.0		104	70-130			
Benzo (a) pyrene	20.6	2.00	"	20.0		103	70-130			
Benzo (b) fluoranthene	20.9	2.00	"	20.0		105	70-130			
Benzo (g,h,i) perylene	19.8	2.00	"	20.0		99.0	70-130			
Benzo (k) fluoranthene	19.3	2.00	"	20.0		96.5	70-130			
Chrysene	20.7	2.00	"	20.0		103	70-130			
Dibenz (a,h) anthracene	22.8	2.00	"	20.0		114	70-130			
Fluoranthene	20.3	2.00	"	20.0		101	70-130			
Fluorene	20.0	2.00	"	20.0		100	70-130			
Indeno (1,2,3-cd) pyrene	21.0	2.00	"	20.0		105	70-130			
Naphthalene	19.4	0.200	"	20.0		97.2	70-130			
Phenanthrene	20.2	2.00	"	20.0		101	70-130			
Pyrene	18.1	2.00	"	20.0		90.3	70-130			
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	180		"	200		89.2	60-130			

LCS Dup (B4E2031-BSD1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

1-Methylnaphthalene	20.2	0.200	ug/L	20.0		101	70-130	1.19	20	
2-Methylnaphthalene	20.2	0.200	"	20.0		101	70-130	1.39	20	
Acenaphthene	19.8	2.00	"	20.0		98.8	70-130	0.264	20	
Anthracene	20.3	2.00	"	20.0		102	70-130	3.01	20	
Benzo (a) anthracene	20.3	0.500	"	20.0		101	70-130	2.89	20	
Benzo (a) pyrene	19.9	2.00	"	20.0		99.3	70-130	3.54	20	
Benzo (b) fluoranthene	20.2	2.00	"	20.0		101	70-130	3.48	20	
Benzo (g,h,i) perylene	19.1	2.00	"	20.0		95.7	70-130	3.36	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 - Sandau #34-12F

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4E2031 - EPA 3510C_MS

LCS Dup (B4E2031-BSD1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

Benzo (k) fluoranthene	17.9	2.00	ug/L	20.0		89.7	70-130	7.36	20	
Chrysene	20.6	2.00	"	20.0		103	70-130	0.253	20	
Dibenz (a,h) anthracene	21.9	2.00	"	20.0		110	70-130	4.00	20	
Fluoranthene	20.2	2.00	"	20.0		101	70-130	0.408	20	
Fluorene	20.0	2.00	"	20.0		99.8	70-130	0.391	20	
Indeno (1,2,3-cd) pyrene	19.8	2.00	"	20.0		98.9	70-130	5.74	20	
Naphthalene	19.5	0.200	"	20.0		97.4	70-130	0.111	20	
Phenanthrene	20.1	2.00	"	20.0		100	70-130	0.363	20	
Pyrene	17.9	2.00	"	20.0		89.7	70-130	0.774	20	
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.9	60-130			
Surrogate: Pyrene-d10	180		"	200		88.3	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 - Sandau #34-12F

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.



June 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405398-01.

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 - Sandau #34-12F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405398-01	Water	May 13, 2024 13:40	05/13/2024 15:46
MW-02	Y405398-02	Water	May 13, 2024 13:45	05/13/2024 15:46
MW-03	Y405398-03	Water	May 13, 2024 13:50	05/13/2024 15:46
MW-04	Y405398-04	Water	May 13, 2024 14:00	05/13/2024 15:46
MW-05	Y405398-05	Water	May 13, 2024 14:10	05/13/2024 15:46

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 - Sandau #34-12F

Page 1 of 1

ORIGINS WORK ORDER # 4405301A

ORIGINS
 LABORATORY LLC

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303 433 0479
 Email Address: anewberry@eagle-enviro.com
 Project Manager: Andrew Newberry
 Project Name: Sandau #34-12F
 Project Number: _____
 Collected By: ZM
 Invoice/Billing Info: Bill to Dan - Noble
 Key: W=Water GW=Groundwater SW=Surface Water WW=Waste Water L=Liquid
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	MW-01	5/13/24	1410	3	GW	HCL		
2	MW-02		1415					
3	MW-03		1450					
4	MW-04		1400					
5	MW-05		1410					
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 5/13/24 Time: 1546
 Received By: [Signature] Date: 5/13/24 Time: 1546
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard Yes No

Temp Received: 4.6 Received On Ice? Yes No

For Lab Sample Receiving Only:
 1725 Elk Place Denver, Co. 80211 | # 303-433-1322 | originslab.com

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 - Sandau #34-12F

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

Sample Receipt Checklist

Origins Work Order: 440398 Client: Eagle
 Client Project ID: Sandau #34-12F
 Checklist Completed by: JH/SJ Shipped Via: HD
 Date/time completed: 5/14/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 4.0 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: TW05

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	/			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 5/15/24

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 - Sandau #34-12F

MW-01

5/13/2024 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405398-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E1435	JSM	05/14/2024	05/14/2024	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	94.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	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 - Sandau #34-12F

MW-02

5/13/2024 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405398-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E1435	JSM	05/14/2024	05/14/2024	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	99.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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 - Sandau #34-12F

MW-03

5/13/2024 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405398-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E1435	JSM	05/14/2024	05/14/2024	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	89.6 %	70-130			"	"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	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 - Sandau #34-12F

MW-04

5/13/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405398-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E1435	JSM	05/14/2024	05/14/2024	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	98.3 %	70-130			"	"	"	"
Surrogate: Toluene-d8	115 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	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 - Sandau #34-12F

MW-05

5/13/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405398-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E1435	JSM	05/14/2024	05/14/2024	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	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	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 - Sandau #34-12F

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 B4E1435 - EPA 5030B (Water)

Blank (B4E1435-BLK1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	63		"	62.5	101		70-130			
<i>Surrogate: Toluene-d8</i>	66		"	62.5	106		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	71		"	62.5	113		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 - Sandau #34-12F

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 B4E1435 - EPA 5030B (Water)

LCS (B4E1435-BS1)

Prepared: 05/14/2024 Analyzed: 05/14/2024

1,2,4-Trimethylbenzene	54.6	2.00	ug/L	50.0		109	70-130			
1,3,5-Trimethylbenzene	50.2	2.00	"	50.0		100	70-130			
Benzene	50.9	1.00	"	50.0		102	70-130			
Ethylbenzene	54.3	1.00	"	50.0		109	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	47.6	2.00	"	50.0		95.2	70-130			
o-Xylene	53.8	1.00	"	50.0		108	70-130			
Toluene	57.9	1.00	"	50.0		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.0	70-130			
Surrogate: Toluene-d8	70		"	62.5		113	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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 - Sandau #34-12F

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 B4E1435 - EPA 5030B (Water)

Matrix Spike (B4E1435-MS1)	Source: Y405393-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	66.1	2.00	ug/L	50.0	ND	132	70-130			QM-07
1,3,5-Trimethylbenzene	63.4	2.00	"	50.0	ND	127	70-130			
Benzene	66.7	1.00	"	50.0	ND	133	70-130			QM-07
Ethylbenzene	65.4	1.00	"	50.0	ND	131	70-130			QM-07
m,p-Xylene	130	2.00	"	100	ND	130	70-130			
Naphthalene	47.5	2.00	"	50.0	0.300	94.3	70-130			
o-Xylene	61.4	1.00	"	50.0	ND	123	70-130			
Toluene	60.9	1.00	"	50.0	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.3	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	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 - Sandau #34-12F

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 B4E1435 - EPA 5030B (Water)

Matrix Spike Dup (B4E1435-MSD1)	Source: Y405393-01			Prepared: 05/14/2024 Analyzed: 05/14/2024						
1,2,4-Trimethylbenzene	61.5	2.00	ug/L	50.0	ND	123	70-130	7.19	20	
1,3,5-Trimethylbenzene	57.4	2.00	"	50.0	ND	115	70-130	9.92	20	
Benzene	62.2	1.00	"	50.0	ND	124	70-130	6.87	20	
Ethylbenzene	58.6	1.00	"	50.0	ND	117	70-130	10.9	20	
m,p-Xylene	113	2.00	"	100	ND	113	70-130	14.0	20	
Naphthalene	47.0	2.00	"	50.0	0.300	93.3	70-130	1.08	20	
o-Xylene	55.2	1.00	"	50.0	ND	110	70-130	10.7	20	
Toluene	49.8	1.00	"	50.0	ND	99.7	70-130	20.0	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.5	70-130			
Surrogate: Toluene-d8	55		"	62.5		88.6	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		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 - Sandau #34-12F

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.



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