



FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

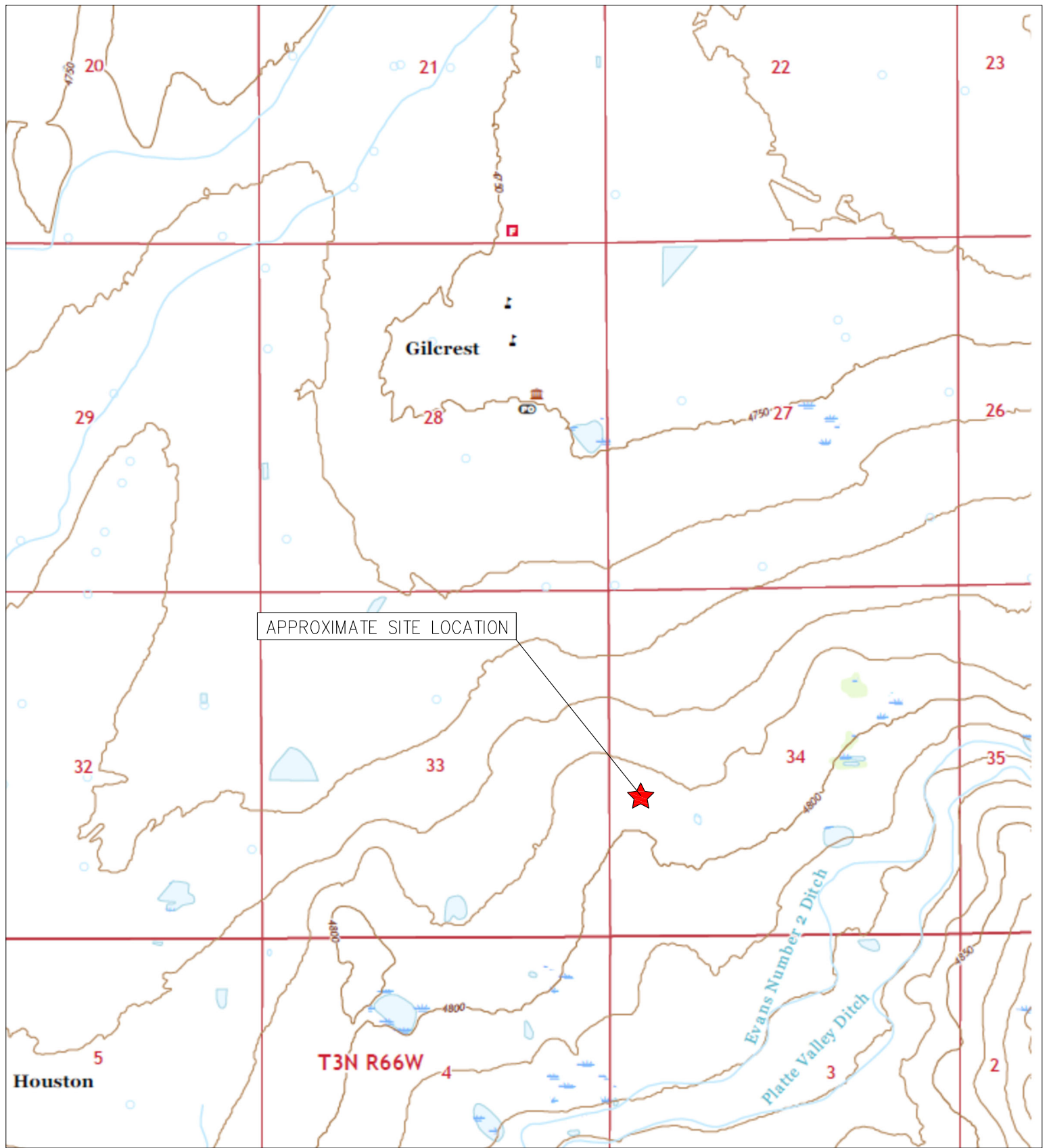
Figure 3: Soil Boring Soil Analytical Map

Figure 4: Soil Boring Polycyclic Aromatic Hydrocarbons Analytical Map

Figure 5: Soil Boring Metals in Soil Map

Figure 6: Groundwater Analytical Map (02/07/24)

Figure 7: Groundwater Elevation Map (02/07/24)



TOPOGRAPHIC SITE LOCATION MAP
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NE¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
LOCATION ID 48289
REMEDIAION #22548



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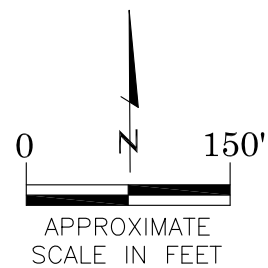
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
MILLIKEN, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER SANDAU #34-12F WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

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

FIG. NO.

2

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BACKGROUND-01@2.5-5'
02/07/24
2.5-5'

Brn= 0.494
EC = 1.23
SAR= 3.58
pH = 8.28

BACKGROUND-01

MW-05 @5-7.5'
02/07/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.875
EC = 1.03
SAR= 2.46
pH = 8.22

MW-05

BACKGROUND-02@2.5-5'
02/07/24
2.5-5'

Brn= 0.464
EC = 0.700
SAR= 3.44
pH = 8.18

BACKGROUND-02

MW-01 @5-7.5'
02/07/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.359
EC = 1.25
SAR= 2.49
pH = 8.29

MW-01

MW-04 @5-7.5'
02/07/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.113
EC = 0.845
SAR= 2.14
pH = 7.98

MW-04

MW-02 @5-7.5'
02/07/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.115
EC = 0.782
SAR= 2.01
pH = 7.93

MW-02

MW-03

MW-03 @5-7.5'
02/07/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.109
EC = 0.895
SAR= 2.16
pH = 7.93

BACKGROUND-05@2.5-5'
02/07/24
2.5-5'

Brn= 0.168
EC = 1.09
SAR= 2.92
pH = 8.05

BACKGROUND-05

BACKGROUND-04@2.5-5'
02/07/24
2.5-5'

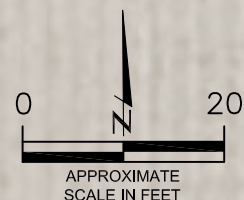
Brn= 0.170
EC = 0.988
SAR= 2.75
pH = 8.09

BACKGROUND-04

BACKGROUND-03@2.5-5'
02/07/24
2.5-5'

Brn= 0.369
EC = 0.764
SAR= 3.88
pH = 8.28

BACKGROUND-03



LEGEND

--- INITIAL WELLHEAD ASSESSMENT BOUNDARIES

● MONITORING WELL LOCATIONS

● APPROXIMATE BACKGROUND SAMPLE LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY

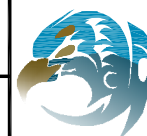
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL BORING SOIL ANALYTICAL MAP

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.
3

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MW-05@5-7.5'
02/07/24
5-7.5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Naphthalene = <0.00380
Pyrene = <0.020

MW-01@5-7.5'
02/07/24
5-7.5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Naphthalene = **0.00638***
Pyrene = <0.020



MW-02@5-7.5'
02/07/24
5-7.5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Naphthalene = <0.00380
Pyrene = <0.020



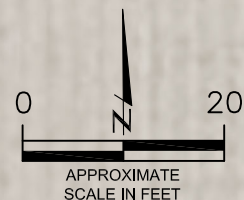
MW-03@5-7.5'
02/07/24
5-7.5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Naphthalene = <0.00380
Pyrene = <0.020



MW-04@5-7.5'
02/07/24
5-7.5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Naphthalene = <0.00380
Pyrene = <0.020



LEGEND

— INITIAL WELLHEAD ASSESSMENT BOUNDARIES



PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT
CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY
DETECTION LIMITS.

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

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED ECMC
TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING
LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL BORING POLYCYCLIC AROMATIC HYDROCARBONS MAP

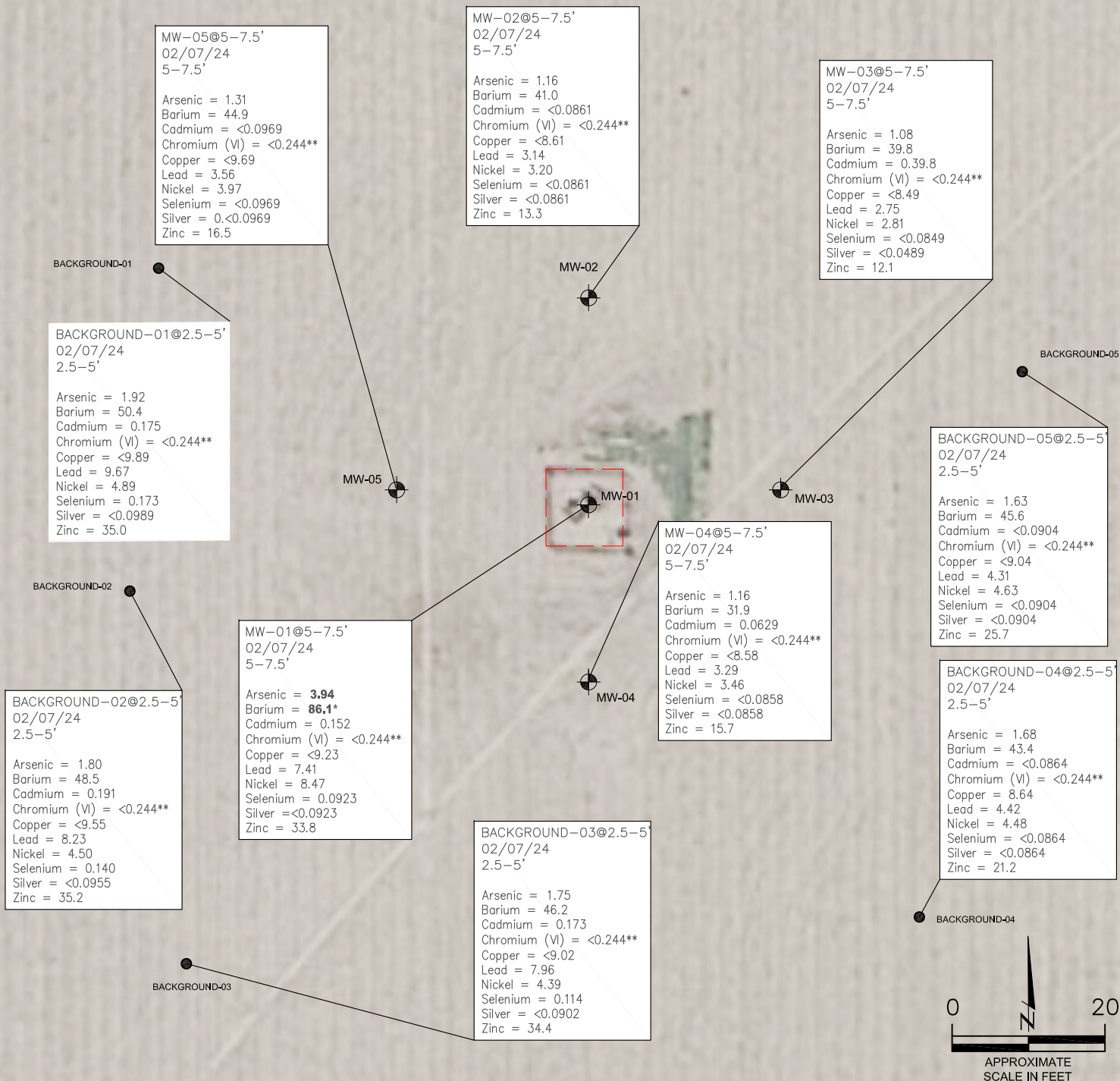
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

FIGURE NO.
4

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LEGEND

--- INITIAL WELLHEAD ASSESSMENT BOUNDARIES

⊙ MONITORING WELL LOCATIONS

● APPROXIMATE BACKGROUND SAMPLE LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTE:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND HIGH CONCENTRATIONS, WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL BORING METALS IN SOIL MAP
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.
5

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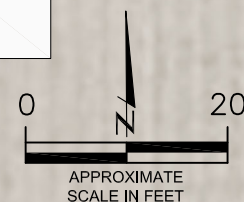
MW-02
02/07/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 252
S = 513
T = 1760

MW-03
02/07/24
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 = 262
S = 525
T = 1710

MW-05
02/07/24
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 = 248
S = 542
T = 1710

MW-01
02/07/24
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 = 243
S = 552
T = 1780

MW-04
02/07/24
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 = 244
S = 522
T = 1760



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

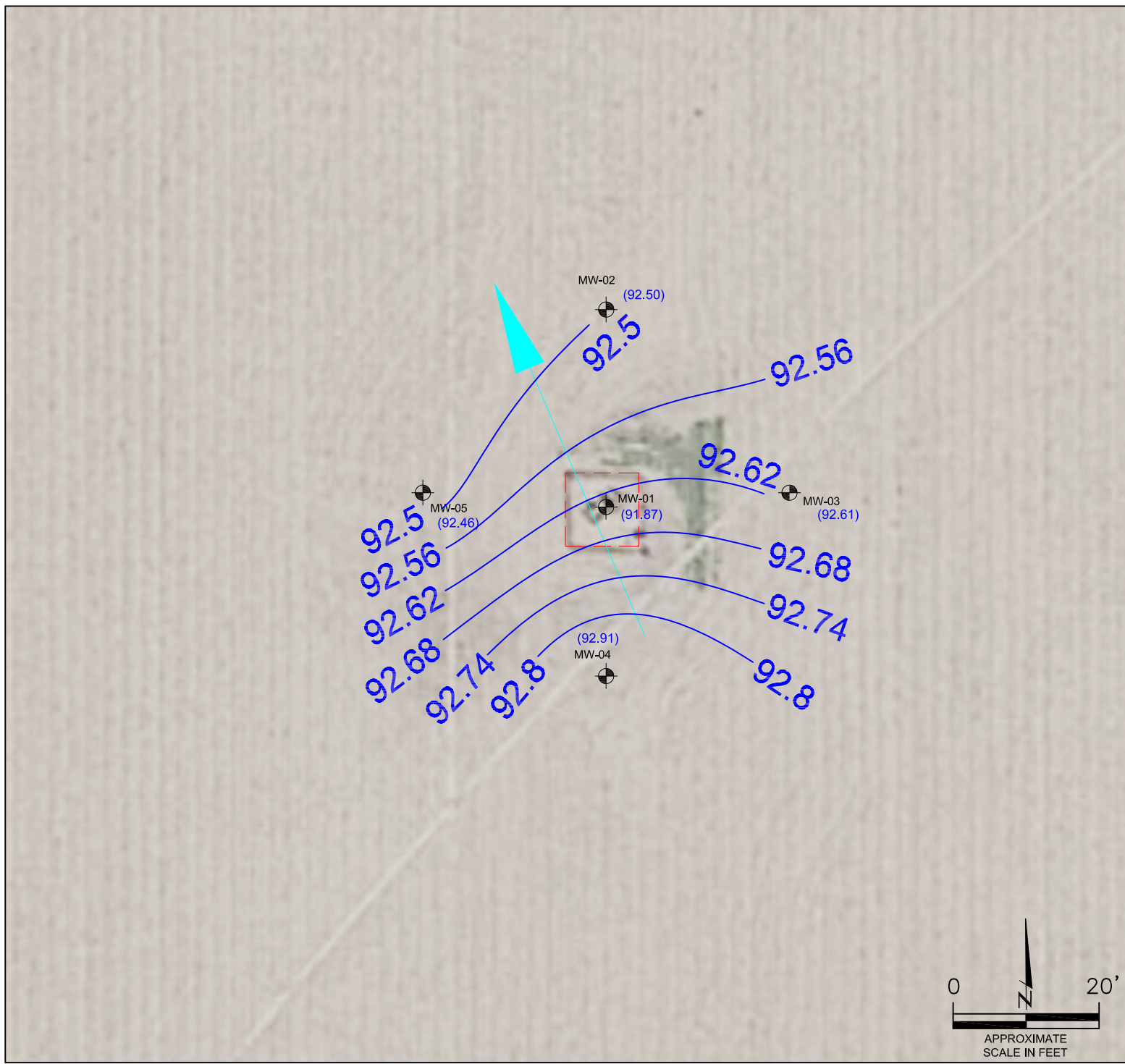
(02/07/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

FIGURE NO.
6

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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 02/07/24.

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
(02/07/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDIAL # 22548

FIGURE NO.
7

DRAWN BY:
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: PAH Analytical Results Summary

Table 4: Metals Analytical Results Summary

Table 5: Groundwater Analytical Results Summary

Table 6: Inorganics Groundwater Parameters Summary

Table 7: Groundwater Elevation Summary

TABLE 1
 PHOTOIONIZATION DETECTOR READING SUMMARY
 SANDAU #34-12F
 HISTORICAL RELEASE
 40.266780 / -104.770970
 NW¼ SW¼ SEC.34 T4N R66W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 22548

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	Lab Submission (Y/N)	Notes
WH-SS-01 @ 5' (40.266795 / -104.770984)	04/14/22	5	1.2	N	Initial Assessment Soil Samples
WH-SS-02 @ 5' (40.266780 / -104.770966)	04/14/22	5	1.6	N	
WH-SS-03 @ 5' (40.266766 / -104.770985)	04/14/22	5	1.2	N	
WH-SS-04 @ 5' (40.266781 / -104.771004)	04/14/22	5	5.1	N	
WH-FS-01 @ 6' (40.266780 / -104.770984)	04/14/22	6	6.5	Y	
FL-SS-01 @ 4' (40.267182 / -104.772736)	04/14/22	4	2.5	Y	
Background-01 @ 1' (40.266745 / -104.770148)	04/14/22	1	5.5	Y	
MW-01 @ 5-7.5' (40.266796 / -104.770978)	01/26/24	5-7.5	2.5	Y	Subsurface Assessment Soil Samples
MW-02 @ 5-7.5' (40.266838 / -104.770976)	01/26/24	5-7.5	2.6	Y	
MW-03 @ 5-7.5' (40.266765 / -104.770909)	01/26/24	5-7.5	2.7	Y	
MW-04 @ 5-7.5' (40.266721 / -104.770986)	01/26/24	5-7.5	1.7	Y	
MW-05 @ 5-7.5' (40.266781 / -104.771051)	01/26/24	5-7.5	1.7	Y	
Background-01 @ 2.5-5' (40.266852 / -104.771155)	01/26/24	2-2.5	1.1	Y	Background Comparisons
Background-02 @ 2.5-5' (40.266742 / -104.771214)	01/26/24	2-2.5	0.3	Y	
Background-03 @ 2.5-5' (40.266628 / -104.771176)	01/26/24	2-2.5	0.4	Y	
Background-04 @ 2.5-5' (40.266647 / -104.770819)	01/26/24	2-2.5	0.6	Y	
Background-05 @ 2.5-5' (40.266602 / -104.771120)	01/26/24	2-2.5	0.8	Y	
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector					

TABLE 2
SOIL ANALYTICAL RRESULTS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 22548

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	Boron	EC	SAR	pH
ECMC Table 915-1 Residential Screening Levels (mg/kg)				30	27	1.20	490	5.8	58	500			2	<4	<6	6-8.3
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0081	0.0087	0.0026	0.69	0.78	9.9	--			--	--	--	--
Initial Assessment Soil Samples																
WH-FS-01 @ 6' (40.266780 / -104.770984)	04/14/22	6	6.5	0.0112*	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1.46	40.0	<100	1.72	1.72	1.72	1.72
FL-SS-01 @ 4' (40.267182 / -104.772736)	04/14/22	4	2.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.155	0.155	0.155	0.155
Subsurface Assessment Soil Samples																
MW-01 @ 5-7.5' (40.266796 / -104.770978)	01/26/24	5-7.5	2.5	0.00236	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.359	1.25	2.49	8.29
MW-02 @ 5-7.5' (40.266838 / -104.770976)	01/26/24	5-7.5	2.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.115	0.782	2.01	7.93
MW-03 @ 5-7.5' (40.266765 / -104.770909)	01/26/24	5-7.5	2.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.109	0.895	2.16	7.90
MW-04 @ 5-7.5' (40.266721 / -104.770986)	01/26/24	5-7.5	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.113	0.845	2.14	7.98
MW-05 @ 5-7.5' (40.266781 / -104.771051)	01/26/24	5-7.5	1.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	0.875	1.03	2.46	8.22
Background Comparisons																
Background-01 @ 2.5-5' (40.266852 / -104.771155)	01/26/24	2-2.5	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.494	1.23	3.58	8.28
Background-02 @ 2.5-5' (40.266742 / -104.771214)	01/26/24	2-2.5	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.464	0.700	3.44	8.18
Background-03 @ 2.5-5' (40.266628 / -104.771176)	01/26/24	2-2.5	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.369	0.764	3.88	8.28
Background-04 @ 2.5-5' (40.266647 / -104.770819)	01/26/24	2-2.5	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.70	0.988	2.75	8.09
Background-05 @ 2.5-5' (40.266602 / -104.771120)	01/26/24	2-2.5	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.168	1.09	2.92	8.05
ECMC = Enegy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed ECMC Table 915-1 protection of groundwater soil screening levels, only.																
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics								1,2,4-TMB = 1,2,4-Trimethylbenzene 1,3,5-TMB = 1,3,5-Trimethylbenzene				MDL = Minimum Detection Limits				

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 22548

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
Initial Assessment Soil Samples																		
WH-FS-01 @ 6' (40.266780 / -104.770984)	04/14/22	6	6.5	0.0444*	0.0139	0.0132	0.00509	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	0.0315	<0.0067	0.0171*	0.023
FL-SS-01 @ 4' (40.267182 / -104.772736)	04/14/22	4	2.5	<0.00067	<0.00067	<0.00067	<0.00067	0.000835	0.00157	0.00135	0.00116	0.00512	<0.00067	0.00169	<0.00067	<0.00067	<0.00067	0.0023
Subsurface Assessment Soil Samples																		
MW-01 @ 5-7.5' (40.266796 / -104.770978)	01/26/24	5-7.5	2.5	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.00638*	<0.020
MW-02 @ 5-7.5' (40.266838 / -104.770976)	01/26/24	5-7.5	2.6	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
MW-03 @ 5-7.5' (40.266765 / -104.770909)	01/26/24	5-7.5	2.7	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
MW-04 @ 5-7.5' (40.266721 / -104.770986)	01/26/24	5-7.5	1.7	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
MW-05 @ 5-7.5' (40.266781 / -104.771051)	01/26/24	5-7.5	1.7	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.00380	<0.020
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed ECMC Table 915-1 protection of groundwater soil screening levels, only.																		
PID = Photoionization Detector ppm-v = parts per million by volume																		

TABLE 4
METALS ANALYTICAL RESULTS SUMMARY
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 22548

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Residential Screening Levels			0.68	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29	82	0.38	0.00067**	46	14	26	0.26	390	370
Local Clean-up Levels			2.40	--	--	0.1 to 1**	--	--	--	--	--	--
Initial Assessment Soil Sample												
WH-FS-01 @ 6' (40.266780 / -104.770984)	04/14/22	6	1.25	42.7	0.0629	<0.244**	4.75	10.5	4.32	0.2	0.2	0.2
Background Comparison												
Background-01 @ 1' (40.266745 / -104.770148)	04/14/22	1	0.755	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subsurface Assessment Soil Samples												
MW-01 @ 5-7.5' (40.266796 / -104.770978)	01/26/24	5-7.5	3.94	86.1*	0.152	<0.244**	<9.23	7.41	8.47	0.0923	<0.0923	33.8
MW-02 @ 5-7.5' (40.266838 / -104.770976)	01/26/24	5-7.5	1.16	41.0	<0.0861	<0.244**	<8.61	3.14	3.20	<0.0861	<0.0861	13.3
MW-03 @ 5-7.5' (40.266765 / -104.770909)	01/26/24	5-7.5	1.08	39.8	<0.0849	<0.244**	<8.49	2.75	2.81	<0.0849	<0.0849	12.1
MW-04 @ 5-7.5' (40.266721 / -104.770986)	01/26/24	5-7.5	1.16	31.9	<0.0858	<0.244**	<8.58	3.29	3.46	<0.0858	<0.0858	15.7
MW-05 @ 5-7.5' (40.266781 / -104.771051)	01/26/24	5-7.5	1.31	44.9	<0.0969	<0.244**	<9.69	3.56	3.97	<0.0969	<0.0969	16.5
Background Comparisons												
Background-01 @ 2.5-5' (40.266852 / -104.771155)	01/26/24	2-2.5	1.92	50.4	0.175	<0.244**	<9.89	9.67	4.89	0.173	<0.0989	35.0
Background-02 @ 2.5-5' (40.266742 / -104.771214)	01/26/24	2-2.5	1.80	48.5	0.191	<0.244**	<9.55	8.23	4.50	0.140	<0.0955	35.2
Background-03 @ 2.5-5' (40.266628 / -104.771176)	01/26/24	2-2.5	1.75	46.2	0.173	<0.244**	<9.02	7.96	4.39	0.114	<0.0902	34.4
Background-04 @ 2.5-5' (40.266647 / -104.770819)	01/26/24	2-2.5	1.68	43.4	<0.0864	<0.244**	<8.64	4.42	4.48	<0.0864	<0.0864	21.2
Background-05 @ 2.5-5' (40.266602 / -104.771120)	01/26/24	2-2.5	1.63	45.6	<0.0904	<0.244**	<9.04	4.31	4.63	<0.0904	<0.0904	25.7
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels. Elevated metals are naturally occurring in Colorado. The Local Clean-up Levels are 1.25*Background high concentraions, where applicable. Values presented in BOLD contained concentrations exceeding ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels, only. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.												

TABLE 5
DWATER ANALYTICAL RESULTS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 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- naphthalene (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
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
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
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
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

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 6
INORGANIC GROUNDWATER PARAMETERS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
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 (305 to 328)	1.25 x Local Background (653 to 656)	1.25 x Local Background (2138 to 2200)
MW-01 (40.266796 / -104.770978)	02/07/24	243	552	1780
MW-02 (40.266838 / -104.770976)	02/07/24	252	513	1760
MW-03 (40.266765 / -104.770909)	02/07/24	262	525	1710
MW-04 (40.266721 / -104.770986)	02/07/24	244	522	1760
MW-05 (40.266781 / -104.771051)	02/07/24	248	542	1710
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 7
GROUNDWATER ELEVATION SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 22548

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)	Stick-Up Height (feet)
MW-01 (40.266796 / -104.770978)	02/07/24	98.93	7.06	91.87	5.85
MW-02 (40.266838 / -104.770976)	02/07/24	99.61	7.11	92.50	5.17
MW-03 (40.266765 / -104.770909)	02/07/24	99.72	7.11	92.61	5.06
MW-04 (40.266721 / -104.770986)	02/07/24	100	7.09	92.91	4.78
MW-05 (40.266781 / -104.771051)	02/07/24	99.99	7.53	92.46	4.79
NOTES: bgs = below ground surface TOC = Top of Casing INA = Inaccessible NA = Not Applicable DES = Destroyed					



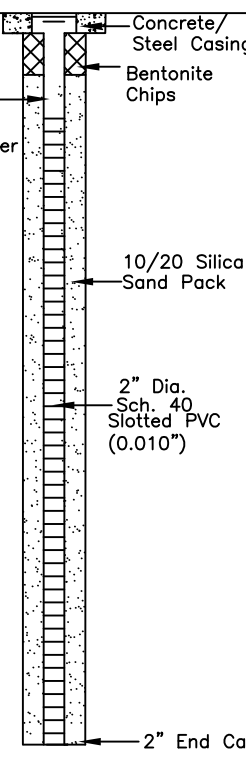
Attachment A

Boring Logs

Boring Log/Well Completion Diagram:

MW-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') clayey SAND - light brown, dry to moist, loose, fine grained, well graded with ~10% clay, N/O, N/S	SC	DP	1	75	0.7	N/A	0		
						0.7				
5	(6-17.5') sandy CLAY - light brown, moist to wet, stiff, high plasticity, well-graded with ~10% sand, N/O, N/S, CaCO3 deposits	CL	DP	2	75	2.5	N/A	5		
						2.4				
	@7.5' - wet		DP	3	70	2.3	N/A	10		
						2.0				
15						1.2		15		
	BoB @ 17.5'							20		
20										
25										
30										

HA - Hand Auger
DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET): 1.5-17.5

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET): 0-1.5

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET): 2.5-17.5

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

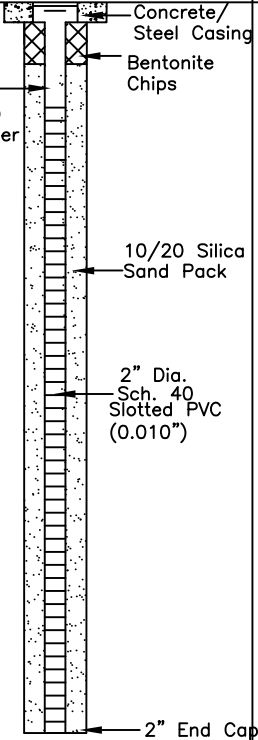
TIME STARTED/COMPLETED: 0930/1005

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0935



EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') clayey SAND - light brown, dry to moist, loose, fine grained, well graded with ~10% clay, N/O, N/S	SC	DP	1	90	1.6	N/A	0		
						2.3				
5	(6-17.5') sandy CLAY - light brown, moist to wet, stiff, high plasticity, well-graded with ~10% sand, N/O, N/S, CaCO ₃ deposits @6' - wet	CL	DP	2	95	2.6	N/A	5		
						1.9				
10			DP	3	100	2.0	N/A	10		
						1.9				
15			DP	4	100	1.9	N/A	15		
	BoB @ 17.5'									
20								20		
25								25		
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET): 1.5-17.5

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET): 0-1.5

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET): 2.5-17.5

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

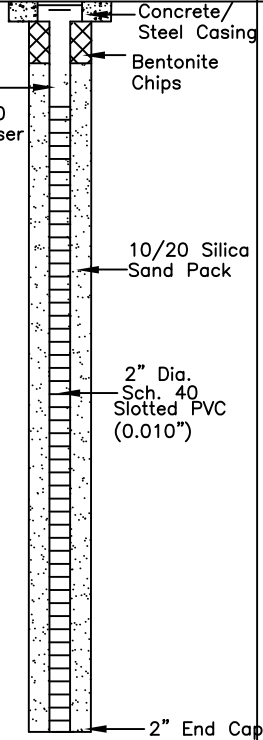
TIME STARTED/COMPLETED: 1010/1035

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1024



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') clayey SAND - light brown, dry to moist, loose, fine grained, well graded with ~10% clay, N/O, N/S	SC	DP	1	75	2.1	N/A			
5						2.0				
7.5	(7-17.5') sandy CLAY - light brown, moist to wet, stiff, high plasticity, well-graded with ~10% sand, N/O, N/S @7' - wet	CL	DP	2	95	2.7	N/A			
10						2.3				
12.5		CL	DP	3	100	1.5	N/A			
15						1.4				
17.5		CL	DP	4	100	1.4	N/A			
20										
22.5										
25										
27.5										
30										
	BoB @ 17.5'									

HA - Hand Auger
DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET): 1.5-17.5

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET): 0-1.5

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET): 2.5-17.5

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1044/1100

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1049



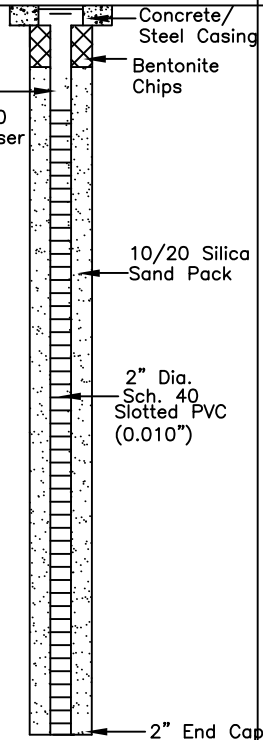
EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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

Boring Log/Well Completion Diagram:

MW-04

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') clayey SAND - light brown, dry to moist, loose, fine grained, well graded with ~10% clay, N/O, N/S	SC	DP	1	85	1.6	N/A	0		
						1.6				
5	(7-17.5') sandy CLAY - light brown, moist to wet, stiff, high plasticity, well-graded with ~10% sand, N/O, N/S @7' - wet	CL	DP	2	90	1.7	N/A	5		
						0.4				
10		CL	DP	3	100	0.2	N/A	10		
						0.3				
15		CL	DP	4	100	0.5	N/A	15		
20	BoB @ 17.5'							20		
25								25		
30								30		

HA - Hand Auger
DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

HA - Hand Auger
DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET): 1.5-17.5

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET): 0-1.5

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET): 2.5-17.5

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

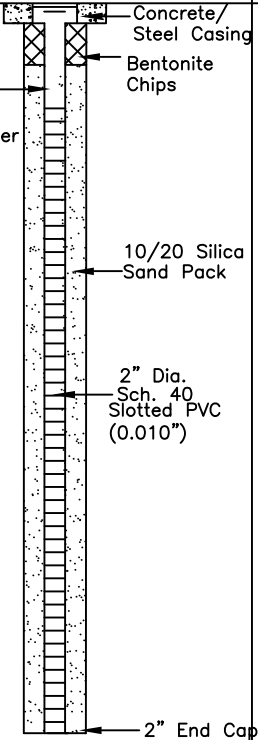
TIME STARTED/COMPLETED: 1118/1131

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1021



EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') clayey SAND - light brown, dry to moist, loose, fine grained, well graded with ~10% clay, N/O, N/S	SC	DP	1	85	0.8	N/A			
						0.5				
5	(6-17.5') sandy CLAY - light brown, moist to wet, stiff, high plasticity, well-graded with ~10% sand, N/O, N/S, CaCO ₃ deposits @7' - wet	CL	DP	2	90	1.7	N/A			
						0.6				
10			DP	3	95	0.5	N/A			
						0.7				
15			DP	4	100	0.6	N/A			
	BoB @ 17.5'									
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET): 1.5-17.5

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET): 0-1.5

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET): 2.5-17.5

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 17.5

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1149/1204

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1154



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 ENVIRONMENTAL
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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') clayey SAND, light brown, dry-moist, fine grained, well graded, with ~10% clay, N/O, N/S									
		SC	DP	1	75		N/A			
						1.1				
5	BoB @ 5'									
10										
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET):

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET):

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET):

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES):

BORING DEPTH (FEET): 5'

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1217/1220

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1217



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') clayey SAND, light brown, dry-moist, fine grained, well graded, with ~10% clay, N/O, N/S									
		SC	DP	1	80		N/A			
						0.3				
5	BoB @ 5'									
10										
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET):

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET):

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET):

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES):

BORING DEPTH (FEET): 5'

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1221/1224

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1221



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') clayey SAND, light brown, dry-moist, fine grained, well graded, with ~10% clay, N/O, N/S									
		SC	DP	1	75		N/A			
						0.4				
5	BoB @ 5'							5		
10								10		
15								15		
20								20		
25								25		
30										

HA - Hand Auger
DP - Direct Push
HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET):

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET):

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET):

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES):

BORING DEPTH (FEET): 5'

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1225/1229

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1226



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CONSULTING, LLC

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') clayey SAND, light brown, dry-moist, fine grained, well graded, with ~10% clay, N/O, N/S									
		SC	DP	1	80		N/A			
						0.6				
5	BoB @ 5'									
10										
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET):

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET):

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET):

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES):

BORING DEPTH (FEET): 5'

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1230/1235

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1235



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') clayey SAND, light brown, dry-moist, fine grained, well graded, with ~10% clay, N/O, N/S									
		SC	DP	1	75		N/A			
						0.8				
5	BoB @ 5'									
10										
15										
20										
25										
30										

HA - Hand Auger
 DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 01/26/24

SAND PACK INTERVAL (FEET):

PROJECT: Sandau #34-12F

BENTONITE/GROUT INTERVAL (FEET):

LOGGED BY: R. Seyler / I. McFarland

WELL SCREEN INTERVAL (FEET):

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES):

BORING DEPTH (FEET): 5'

WELL DEPTH (FEET): 17.5

PID INSTRUMENT: MiniRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1236/1242

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1236



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



ATTACHMENT B

Laboratory Analytical Reports



February 07, 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. January 26, 2024. This project is associated with Origins project number Y401673-01.

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@5-7.5'	Y401673-01	Soil	January 26, 2024 9:35	01/26/2024 14:35
MW-02@5-7.5'	Y401673-02	Soil	January 26, 2024 10:24	01/26/2024 14:35
MW-03@5-7.5'	Y401673-03	Soil	January 26, 2024 10:49	01/26/2024 14:35
MW-04@5-7.5'	Y401673-04	Soil	January 26, 2024 11:21	01/26/2024 14:35
MW-05@5-7.5'	Y401673-05	Soil	January 26, 2024 11:54	01/26/2024 14:35

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: Y401673

Client: Eagle
Client Project ID: Sandau 34-12F

Checklist Completed by: EHS

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

Date/time completed: 1/26/24

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

Cooler Number/Temperature: 116 °C 1 °C 1 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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]

1/30/24
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@5-7.5'
1/26/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.359	0.101	mg/L	1	B4A3109	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3001	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.1 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00236	0.00200	mg/kg	1	B4A2704	01/27/2024	01/30/2024	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	0.00638	0.00380	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

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-01@5-7.5'
1/26/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y401673-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130	B4A27 04	01/27/2024	01/30/2024
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.46	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	1.76	0.823	"	"	"	"	"
Sodium	4.39	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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@5-7.5'
1/26/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	104 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.49	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.25	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

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-01@5-7.5'
1/26/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.94	0.0923	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	86.1	9.23	"	"	"	"	"
Cadmium	0.152	0.0923	"	"	"	"	"
Copper	ND	9.23	"	"	"	"	"
Lead	7.41	0.923	"	"	"	"	"
Nickel	8.47	0.923	"	"	"	"	"
Selenium	0.0923	0.0923	"	"	"	"	"
Silver	ND	0.0923	"	"	"	"	"
Zinc	33.8	9.23	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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@5-7.5'

1/26/2024 10:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.115	0.101	mg/L	1	B4A3109	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3001	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2704	01/27/2024	01/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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@5-7.5'

1/26/2024 10:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130	B4A27 04	01/27/2024	01/30/2024
Surrogate: Toluene-d8	94.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.22	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.46	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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@5-7.5'

1/26/2024 10:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401673-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.93	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.01	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.782	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-02@5-7.5'

1/26/2024 10:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.16	0.0861	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	41.0	8.61	"	"	"	"	"
Cadmium	ND	0.0861	"	"	"	"	"
Copper	ND	8.61	"	"	"	"	"
Lead	3.14	0.861	"	"	"	"	"
Nickel	3.20	0.861	"	"	"	"	"
Selenium	ND	0.0861	"	"	"	"	"
Silver	ND	0.0861	"	"	"	"	"
Zinc	13.3	8.61	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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-03@5-7.5'

1/26/2024 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.109	0.0991	mg/L	1	B4A3109	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3001	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2704	01/27/2024	01/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-03@5-7.5'

1/26/2024 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	B4A27 04	01/27/2024	01/30/2024
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.73	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	0.969	0.823	"	"	"	"	"
Sodium	2.94	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	01/30/2024	02/07/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-03@5-7.5'

1/26/2024 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A3029	01/30/2024	02/07/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.90	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.16	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.895	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-03@5-7.5'

1/26/2024 10:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.08	0.0849	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	39.8	8.49	"	"	"	"	"
Cadmium	ND	0.0849	"	"	"	"	"
Copper	ND	8.49	"	"	"	"	"
Lead	2.75	0.849	"	"	"	"	"
Nickel	2.81	0.849	"	"	"	"	"
Selenium	ND	0.0849	"	"	"	"	"
Silver	ND	0.0849	"	"	"	"	"
Zinc	12.1	8.49	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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@5-7.5'

1/26/2024 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.113	0.0990	mg/L	1	B4A3109	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3001	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2704	01/27/2024	01/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-04@5-7.5'

1/26/2024 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	B4A27 04	01/27/2024	01/30/2024
Surrogate: Toluene-d8	93.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.52	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	0.866	0.823	"	"	"	"	"
Sodium	2.78	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-04@5-7.5'

1/26/2024 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401673-04 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	100 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.14	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.845	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-04@5-7.5'

1/26/2024 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.16	0.0858	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	31.9	8.58	"	"	"	"	"
Cadmium	ND	0.0858	"	"	"	"	"
Copper	ND	8.58	"	"	"	"	"
Lead	3.29	0.858	"	"	"	"	"
Nickel	3.46	0.858	"	"	"	"	"
Selenium	ND	0.0858	"	"	"	"	"
Silver	ND	0.0858	"	"	"	"	"
Zinc	15.7	8.58	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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 - Sandau #34-12F

MW-05@5-7.5'

1/26/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.875	0.0992	mg/L	1	B4A3109	01/31/2024	02/01/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A3002	01/30/2024	02/03/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.5 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A2704	01/27/2024	01/30/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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@5-7.5'

1/26/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	B4A27 04	01/27/2024	01/30/2024
Surrogate: Toluene-d8	95.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.17	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	1.20	0.823	"	"	"	"	"
Sodium	3.64	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-05@5-7.5'

1/26/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-05 (Soil)

PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B4A3029	01/30/2024	02/06/2024	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.0 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.22	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.46	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.03	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

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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@5-7.5'

1/26/2024 11:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401673-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.31	0.0969	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	44.9	9.69	"	"	"	"	"
Cadmium	ND	0.0969	"	"	"	"	"
Copper	ND	9.69	"	"	"	"	"
Lead	3.56	0.969	"	"	"	"	"
Nickel	3.97	0.969	"	"	"	"	"
Selenium	ND	0.0969	"	"	"	"	"
Silver	ND	0.0969	"	"	"	"	"
Zinc	16.5	9.69	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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
Batch B4A2704 - EPA 5030 (soil)										
Blank (B4A2704-BLK1)					Prepared: 01/27/2024 Analyzed: 01/29/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Eagle Environmental Consulting, LLC
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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 B4A2704 - EPA 5030 (soil)

LCS (B4A2704-BS1)

Prepared: 01/27/2024 Analyzed: 01/29/2024

1,2,4-Trimethylbenzene	0.0955	0.00200	mg/kg	0.100		95.5	70-130			
1,3,5-Trimethylbenzene	0.0983	0.00200	"	0.100		98.3	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.0954	0.00380	"	0.100		95.4	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0840	0.00200	"	0.100		84.0	70-130			
m,p-Xylene	0.191	0.00400	"	0.200		95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.0	70-130			

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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
Batch B4A2704 - EPA 5030 (soil)										
Matrix Spike (B4A2704-MS1)		Source: Y401646-01			Prepared: 01/27/2024 Analyzed: 01/29/2024					
1,2,4-Trimethylbenzene	0.0970	0.00200	mg/kg	0.100	ND	97.0	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100	ND	96.4	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.0850	0.00200	"	0.100	ND	85.0	70-130			
m,p-Xylene	0.192	0.00400	"	0.200	ND	95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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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
Batch B4A2704 - EPA 5030 (soil)										
Matrix Spike Dup (B4A2704-MSD1)			Source: Y401646-01		Prepared: 01/27/2024 Analyzed: 01/29/2024					
1,2,4-Trimethylbenzene	0.0932	0.00200	mg/kg	0.100	ND	93.2	70-130	4.02	20	
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	2.99	20	
Benzene	0.116	0.00200	"	0.100	ND	116	70-130	0.805	20	
Ethylbenzene	0.0940	0.00200	"	0.100	ND	94.0	70-130	2.58	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.116	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	2.33	20	
o-Xylene	0.0823	0.00200	"	0.100	ND	82.3	70-130	3.13	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	3.40	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

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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
Batch B4A3001 - EPA 3550B										
Blank (B4A3001-BLK1)					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		82.2	50-150			

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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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3001 - EPA 3550B										
LCS (B4A3001-BS1)					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	793	50.0	mg/kg	1000		79.3	70-130			
Residual Range Organics (C28-C40)	854	200	"	1000		85.4	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.0	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A3001 - EPA 3550B

Matrix Spike (B4A3001-MS1)		Source: Y401673-01			Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	808	50.0	mg/kg	1000	ND	80.8	70-130			
Residual Range Organics (C28-C40)	867	200	"	1000	ND	86.7	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3001 - EPA 3550B										
Matrix Spike Dup (B4A3001-MSD1)		Source: Y401673-01			Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	755	50.0	mg/kg	1000	ND	75.5	70-130	6.75	35	
Residual Range Organics (C28-C40)	791	200	"	1000	ND	79.1	70-130	9.08	35	
Surrogate: o-Terphenyl	39		"	49.8		77.8	50-150			

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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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3002 - EPA 3550B										
Blank (B4A3002-BLK1)					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.6	50-150			

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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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3002 - EPA 3550B										
LCS (B4A3002-BS1)					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3002 - EPA 3550B										
Matrix Spike (B4A3002-MS1)		Source: Y401673-05			Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3002 - EPA 3550B										
Matrix Spike Dup (B4A3002-MSD1)		Source: Y401673-05			Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130	2.62	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	3.93	35	
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2641 - EPA 3050B

Blank (B4A2641-BLK1)

Prepared: 01/26/2024 Analyzed: 02/01/2024

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

LCS (B4A2641-BS1)

Prepared: 01/26/2024 Analyzed: 02/01/2024

Arsenic	5.17	0.0100	mg/kg	5.00	103	80-120
Barium	470	1.00	"	500	94.1	80-120
Cadmium	4.77	0.0100	"	5.00	95.4	80-120
Copper	57.8	1.00	"	50.0	116	80-120
Lead	5.54	0.100	"	5.00	111	80-120
Nickel	4.67	0.100	"	5.00	93.4	80-120
Selenium	4.78	0.0100	"	5.00	95.6	80-120
Silver	5.80	0.0100	"	5.00	116	80-120
Zinc	52.9	1.00	"	50.0	106	80-120

Matrix Spike (B4A2641-MS1)

Source: Y401678-05

Prepared: 01/26/2024 Analyzed: 02/01/2024

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Sandau #34-12F

Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2641 - EPA 3050B										
Matrix Spike (B4A2641-MS1)			Source: Y401678-05		Prepared: 01/26/2024 Analyzed: 02/01/2024					
Arsenic	10.0	0.0951	mg/kg	4.76	4.95	107	75-125			
Barium	594	9.51	"	476	210	80.6	75-125			
Cadmium	4.64	0.0951	"	4.76	0.196	93.5	75-125			
Copper	56.0	9.51	"	47.6	9.75	97.3	75-125			
Lead	14.7	0.951	"	4.76	11.4	70.2	75-125			QM-07
Nickel	16.4	0.951	"	4.76	12.6	80.7	75-125			
Selenium	3.77	0.0951	"	4.76	0.153	76.1	75-125			
Silver	4.83	0.0951	"	4.76	0.0218	101	75-125			
Zinc	98.8	9.51	"	47.6	52.4	97.4	75-125			
Matrix Spike Dup (B4A2641-MSD1)			Source: Y401678-05		Prepared: 01/26/2024 Analyzed: 02/01/2024					
Arsenic	11.8	0.0928	mg/kg	4.64	4.95	147	75-125	16.2	20	QM-07
Barium	642	9.28	"	464	210	93.0	75-125	7.75	20	
Cadmium	4.70	0.0928	"	4.64	0.196	97.1	75-125	1.18	20	
Copper	57.9	9.28	"	46.4	9.75	104	75-125	3.18	20	
Lead	15.6	0.928	"	4.64	11.4	91.1	75-125	5.84	20	
Nickel	17.5	0.928	"	4.64	12.6	105	75-125	6.22	20	
Selenium	3.92	0.0928	"	4.64	0.153	81.1	75-125	3.74	20	
Silver	4.91	0.0928	"	4.64	0.0218	105	75-125	1.76	20	
Zinc	104	9.28	"	46.4	52.4	112	75-125	5.43	20	

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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 B4A3029 - EPA 3580

Blank (B4A3029-BLK1)

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	200		"	200		98.5	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4A3029-BS1)

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200		91.7	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200		91.2	70-130			
Acenaphthene	0.180	0.020	"	0.200		90.0	70-130			
Anthracene	0.188	0.020	"	0.200		94.1	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
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Batch B4A3029 - EPA 3580

LCS (B4A3029-BS1)

Prepared: 01/30/2024 Analyzed: 02/06/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.4	70-130
Benzo (a) pyrene	0.168	0.020	"	0.200		83.8	70-130
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.4	70-130
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		92.1	70-130
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.7	70-130
Chrysene	0.184	0.020	"	0.200		92.1	70-130
Dibenz (a,h) anthracene	0.185	0.020	"	0.200		92.3	70-130
Fluoranthene	0.175	0.020	"	0.200		87.4	70-130
Fluorene	0.179	0.020	"	0.200		89.3	70-130
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200		91.8	70-130
Naphthalene	0.183	0.002	"	0.200		91.4	70-130
Phenanthrene	0.172	0.020	"	0.200		86.1	70-130
Pyrene	0.181	0.020	"	0.200		90.5	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130
Surrogate: Anthracene-d10	200		"	200		98.5	60-130
Surrogate: Pyrene-d10	200		"	200		99.5	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130

Matrix Spike (B4A3029-MS1)

Source: Y401658-01

Prepared: 01/30/2024 Analyzed: 02/06/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.012	90.4	70-130
2-Methylnaphthalene	0.201	0.002	"	0.200	0.018	91.2	70-130
Acenaphthene	0.182	0.020	"	0.200	0.003	89.3	70-130
Anthracene	0.173	0.020	"	0.200	ND	86.4	70-130
Benzo (a) anthracene	0.178	0.005	"	0.200	ND	89.2	70-130
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	96.0	70-130
Benzo (b) fluoranthene	0.195	0.020	"	0.200	ND	97.6	70-130
Benzo (g,h,i) perylene	0.186	0.020	"	0.200	ND	93.1	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 - 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 B4A3029 - EPA 3580

Matrix Spike (B4A3029-MS1)		Source: Y401658-01			Prepared: 01/30/2024 Analyzed: 02/06/2024					
Benzo (k) fluoranthene	0.172	0.020	mg/kg	0.200	ND	85.9	70-130			
Chrysene	0.177	0.020	"	0.200	0.001	87.8	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	97.9	70-130			
Fluoranthene	0.175	0.020	"	0.200	0.0008	86.9	70-130			
Fluorene	0.182	0.020	"	0.200	0.004	89.1	70-130			
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Naphthalene	0.186	0.002	"	0.200	0.004	90.9	70-130			
Phenanthrene	0.177	0.020	"	0.200	0.005	85.9	70-130			
Pyrene	0.177	0.020	"	0.200	0.001	87.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4A3029-MSD1)		Source: Y401658-01			Prepared: 01/30/2024 Analyzed: 02/06/2024					
1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	0.012	88.0	70-130	2.53	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	0.018	88.3	70-130	3.01	20	
Acenaphthene	0.177	0.020	"	0.200	0.003	87.0	70-130	2.59	20	
Anthracene	0.171	0.020	"	0.200	ND	85.7	70-130	0.799	20	
Benzo (a) anthracene	0.175	0.005	"	0.200	ND	87.4	70-130	2.04	20	
Benzo (a) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130	4.03	20	
Benzo (b) fluoranthene	0.171	0.020	"	0.200	ND	85.5	70-130	13.2	20	
Benzo (g,h,i) perylene	0.187	0.020	"	0.200	ND	93.6	70-130	0.504	20	
Benzo (k) fluoranthene	0.175	0.020	"	0.200	ND	87.7	70-130	2.12	20	
Chrysene	0.183	0.020	"	0.200	0.001	90.6	70-130	3.14	20	
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130	4.02	20	
Fluoranthene	0.174	0.020	"	0.200	0.0008	86.3	70-130	0.633	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 - 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 B4A3029 - EPA 3580										
Matrix Spike Dup (B4A3029-MSD1)			Source: Y401658-01		Prepared: 01/30/2024 Analyzed: 02/06/2024					
Fluorene	0.176	0.020	mg/kg	0.200	0.004	86.3	70-130	3.19	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.9	70-130	2.66	20	
Naphthalene	0.181	0.002	"	0.200	0.004	88.3	70-130	2.84	20	
Phenanthrene	0.175	0.020	"	0.200	0.005	85.3	70-130	0.697	20	
Pyrene	0.174	0.020	"	0.200	0.001	86.6	70-130	1.20	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	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 - 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
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Batch B4A3013 - Saturated Paste Metals

Blank (B4A3013-BLK1)

Prepared: 01/30/2024 Analyzed: 01/31/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4A3013-DUP1)

Source: Y401672-01

Prepared: 01/30/2024 Analyzed: 01/31/2024

SAR	ND	0.0100	SAR	3.58		200
Calcium PPM	67.6	10.0	mg/L	73.8	8.78	50
Magnesium PPM	15.0	10.0	"	16.9	12.1	50
Sodium PPM	123	10.0	"	131	6.18	50

Batch B4A3109 - DTPA Sorbitol Preparation

Blank (B4A3109-BLK1)

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A3109-DUP1)

Source: Y401658-01

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron	0.819	0.0994	mg/L	0.830	1.29	50
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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 - Sandau #34-12F

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3018 - Saturated Paste pH/EC										
Blank (B4A3018-BLK1)					Prepared: 01/30/2024 Analyzed: 01/31/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A3018-DUP1)					Source: Y401672-01 Prepared: 01/30/2024 Analyzed: 01/31/2024					
pH	8.23		pH Units		8.28			0.606	25	
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.23			8.22	25	

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L730911 -										
DUP (L 92090-DUP)	Source: Y401673-03				Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 92090-MS)	Source: Y401673-03				Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	32.3	2.5	mg/Kg	39.9	< 0.244	81	75-125			
LCS (LCS)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 on a wet weight basis.

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

Origins Laboratory, Inc.



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.



February 06, 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. January 26, 2024. This project is associated with Origins project number Y401672-01.

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
Background-01@2.5-5'	Y401672-01	Soil	January 26, 2024 12:17	01/26/2024 14:35
Background-02@2.5-5'	Y401672-02	Soil	January 26, 2024 12:21	01/26/2024 14:35
Background-03@2.5-5'	Y401672-03	Soil	January 26, 2024 12:25	01/26/2024 14:35
Background-04@2.5-5'	Y401672-04	Soil	January 26, 2024 12:30	01/26/2024 14:35
Background-05@2.5-5'	Y401672-05	Soil	January 26, 2024 12:36	01/26/2024 14:35

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: 1401672

Client: Eagle

Client Project ID: Sandau 34-12F

Checklist Completed by: EHS

Shipped Via: HO

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

Date/time completed: 1/26/24

Airbill #: N/A

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

Cooler Number/Temperature: 116 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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]

1/30/24
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

Background-01@2.5-5'
1/26/2024 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.494	0.0982	mg/L	1	B4A3015	01/30/2024	01/31/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.68	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	5.70	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28		pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	3.58	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.23	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Arsenic	1.92	0.0989	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	50.4	9.89	"	"	"	"	"
Cadmium	0.175	0.0989	"	"	"	"	"
Copper	ND	9.89	"	"	"	"	"

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

Background-01@2.5-5'
1/26/2024 12:17:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-01 (Soil)

Table 915 metals by EPA 6020B

Lead	9.67	0.989	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Nickel	4.89	0.989	"	"	"	"	"
Selenium	0.173	0.0989	"	"	"	"	"
Silver	ND	0.0989	"	"	"	"	"
Zinc	35.0	9.89	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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 - Sandau #34-12F

Background-02@2.5-5'
1/26/2024 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.464	0.0987	mg/L	1	B4A3015	01/30/2024	01/31/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.61	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	3.44	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Arsenic	1.80	0.0955	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	48.5	9.55	"	"	"	"	"
Cadmium	0.191	0.0955	"	"	"	"	"
Copper	ND	9.55	"	"	"	"	"

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

Background-02@2.5-5'

1/26/2024 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401672-02 (Soil)

Table 915 metals by EPA 6020B

Lead	8.23	0.955	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Nickel	4.50	0.955	"	"	"	"	"
Selenium	0.140	0.0955	"	"	"	"	"
Silver	ND	0.0955	"	"	"	"	"
Zinc	35.2	9.55	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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

Background-03@2.5-5'
1/26/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.369	0.0989	mg/L	1	B4A3015	01/30/2024	01/31/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.71	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	4.18	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	3.88	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.764	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Arsenic	1.75	0.0902	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	46.2	9.02	"	"	"	"	"
Cadmium	0.173	0.0902	"	"	"	"	"
Copper	ND	9.02	"	"	"	"	"

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

Background-03@2.5-5'

1/26/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y401672-03 (Soil)

Table 915 metals by EPA 6020B

Lead	7.96	0.902	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Nickel	4.39	0.902	"	"	"	"	"
Selenium	0.114	0.0902	"	"	"	"	"
Silver	ND	0.0902	"	"	"	"	"
Zinc	34.4	9.02	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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

Background-04@2.5-5'
1/26/2024 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.170	0.100	mg/L	1	B4A3015	01/30/2024	01/31/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.64	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	1.09	0.823	"	"	"	"	"
Sodium	4.22	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.75	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.988	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Arsenic	1.68	0.0864	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	43.4	8.64	"	"	"	"	"
Cadmium	ND	0.0864	"	"	"	"	"
Copper	ND	8.64	"	"	"	"	"

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

Background-04@2.5-5'

1/26/2024 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-04 (Soil)

Table 915 metals by EPA 6020B

Lead	4.42	0.864	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Nickel	4.48	0.864	"	"	"	"	"
Selenium	ND	0.0864	"	"	"	"	"
Silver	ND	0.0864	"	"	"	"	"
Zinc	21.2	8.64	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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

Background-05@2.5-5'
1/26/2024 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.168	0.0997	mg/L	1	B4A3015	01/30/2024	01/31/2024
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Metals by Saturated Paste by EPA 6010

Calcium	3.94	0.499	meq/L	10	[CALC]	01/30/2024	01/31/2024
Magnesium	1.13	0.823	"	"	"	"	"
Sodium	4.66	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.05		pH Units	1	B4A3018	01/30/2024	01/31/2024
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SAR by 20B Saturated Paste

SAR	2.92	0.0100	SAR	1	B4A3013	01/30/2024	01/31/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.09	0.00500	mmhos/cm	1	B4A3018	01/30/2024	01/31/2024
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Table 915 metals by EPA 6020B

Arsenic	1.63	0.0904	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Barium	45.6	9.04	"	"	"	"	"
Cadmium	ND	0.0904	"	"	"	"	"
Copper	ND	9.04	"	"	"	"	"

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

Background-05@2.5-5'
1/26/2024 12:36:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401672-05 (Soil)

Table 915 metals by EPA 6020B

Lead	4.31	0.904	mg/kg	10	B4A2641	01/26/2024	02/01/2024
Nickel	4.63	0.904	"	"	"	"	"
Selenium	ND	0.0904	"	"	"	"	"
Silver	ND	0.0904	"	"	"	"	"
Zinc	25.7	9.04	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L730911	01/26/2024	02/05/2024
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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

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A2641 - EPA 3050B

Blank (B4A2641-BLK1)

Prepared: 01/26/2024 Analyzed: 02/01/2024

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

LCS (B4A2641-BS1)

Prepared: 01/26/2024 Analyzed: 02/01/2024

Arsenic	5.17	0.0100	mg/kg	5.00	103	80-120
Barium	470	1.00	"	500	94.1	80-120
Cadmium	4.77	0.0100	"	5.00	95.4	80-120
Copper	57.8	1.00	"	50.0	116	80-120
Lead	5.54	0.100	"	5.00	111	80-120
Nickel	4.67	0.100	"	5.00	93.4	80-120
Selenium	4.78	0.0100	"	5.00	95.6	80-120
Silver	5.80	0.0100	"	5.00	116	80-120
Zinc	52.9	1.00	"	50.0	106	80-120

Matrix Spike (B4A2641-MS1)

Source: Y401678-05

Prepared: 01/26/2024 Analyzed: 02/01/2024

Arsenic	10.0	0.0951	mg/kg	4.76	4.95	107	75-125
Barium	594	9.51	"	476	210	80.6	75-125
Cadmium	4.64	0.0951	"	4.76	0.196	93.5	75-125
Copper	56.0	9.51	"	47.6	9.75	97.3	75-125
Lead	14.7	0.951	"	4.76	11.4	70.2	75-125

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 - Sandau #34-12F

Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A2641 - EPA 3050B										
Matrix Spike (B4A2641-MS1)			Source: Y401678-05		Prepared: 01/26/2024 Analyzed: 02/01/2024					
Nickel	16.4	0.951	mg/kg	4.76	12.6	80.7	75-125			
Selenium	3.77	0.0951	"	4.76	0.153	76.1	75-125			
Silver	4.83	0.0951	"	4.76	0.0218	101	75-125			
Zinc	98.8	9.51	"	47.6	52.4	97.4	75-125			
Matrix Spike Dup (B4A2641-MSD1)			Source: Y401678-05		Prepared: 01/26/2024 Analyzed: 02/01/2024					
Arsenic	11.8	0.0928	mg/kg	4.64	4.95	147	75-125	16.2	20	QM-07
Barium	642	9.28	"	464	210	93.0	75-125	7.75	20	
Cadmium	4.70	0.0928	"	4.64	0.196	97.1	75-125	1.18	20	
Copper	57.9	9.28	"	46.4	9.75	104	75-125	3.18	20	
Lead	15.6	0.928	"	4.64	11.4	91.1	75-125	5.84	20	
Nickel	17.5	0.928	"	4.64	12.6	105	75-125	6.22	20	
Selenium	3.92	0.0928	"	4.64	0.153	81.1	75-125	3.74	20	
Silver	4.91	0.0928	"	4.64	0.0218	105	75-125	1.76	20	
Zinc	104	9.28	"	46.4	52.4	112	75-125	5.43	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 - 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
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Batch B4A3013 - Saturated Paste Metals

Blank (B4A3013-BLK1)

Prepared: 01/30/2024 Analyzed: 01/31/2024

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B4A3013-DUP1)

Source: Y401672-01

Prepared: 01/30/2024 Analyzed: 01/31/2024

Calcium PPM	67.6	10.0	mg/L	73.8	8.78	50
SAR	ND	0.0100	SAR	3.58		200
Magnesium PPM	15.0	10.0	mg/L	16.9	12.1	50
Sodium PPM	123	10.0	"	131	6.18	50

Batch B4A3015 - DTPA Sorbitol Preparation

Blank (B4A3015-BLK1)

Prepared: 01/30/2024 Analyzed: 01/31/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A3015-DUP1)

Source: Y401645-01

Prepared: 01/30/2024 Analyzed: 01/31/2024

Boron	0.152	0.0994	mg/L	0.154	1.16	50
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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 - Sandau #34-12F

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A3018 - Saturated Paste pH/EC										
Blank (B4A3018-BLK1)					Prepared: 01/30/2024 Analyzed: 01/31/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A3018-DUP1)					Source: Y401672-01 Prepared: 01/30/2024 Analyzed: 01/31/2024					
pH	8.23		pH Units		8.28			0.606	25	
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.23			8.22	25	

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L730911 -										
DUP (L 92090-DUP)	Source: 92090				Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
MS (L 92090-MS)	Source: 92090				Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	32.3	2.5	mg/Kg	39.9	< 0.244	81	75-125			
LCS (LCS)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	6.19	0.5	mg/Kg	8		77	75-125			
LRB (LRB)					Prepared: Analyzed: 02/05/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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.



February 15, 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. February 07, 2024. This project is associated with Origins project number Y402194-01.

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	Y402194-01	Water	February 7, 2024 14:35	02/07/2024 16:37
MW-02	Y402194-02	Water	February 7, 2024 12:45	02/07/2024 16:37
MW-03	Y402194-03	Water	February 7, 2024 14:15	02/07/2024 16:37
MW-04	Y402194-04	Water	February 7, 2024 14:25	02/07/2024 16:37
MW-05	Y402194-05	Water	February 7, 2024 14:45	02/07/2024 16:37

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

www.originslaboratory.com

page 1 of 1

4002194

ORIGINS LABORATORY, INC

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

Project Manager: Andrew Newberry
Project Name: Sandau #34-12F
Project Number: -
Samples Collected By: BU

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summation Container #		
MW-01	2-7-24	1435	1	X				X			X	1
MW-02		1245	1					X			X	2
MW-03		1415	1					X			X	3
MW-04		1425	1					X			X	4
MW-05		1445	1					X			X	5
												6
												7
												8
												9
												10

Relinquished By: Blake Ulrich Date: 2-7-24 Time: 1637
Received By: WJ Date: 2-7-24 Time: 1057
Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 5 Date Results Needed: Noble

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

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y402194

Client: Eagle
Client Project ID: Sandau #34-12

Checklist Completed by: OT/ens
Date/time completed: 2/8/24

Shipped Via: TD
(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, 5 °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⁾ ?	<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"/>	
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 2/8/24

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 - Sandau #34-12F

MW-01

2/7/2024 2:35:00PM

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

Origins Laboratory, Inc. Y402194-01 (Water)

Anions by IC 300.0

Chloride	243	31.2	mg/L	125	B4B0806	DLT	02/08/2024	02/10/2024	
Sulfate	552	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1780	5.00	"	1	B4B0735	KRM	02/07/2024	02/09/2024	
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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
2/7/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y402194-02 (Water)

Anions by IC 300.0

Chloride	252	31.2	mg/L	125	B4B0806	DLT	02/08/2024	02/10/2024	
Sulfate	513	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1760	5.00	"	1	B4B0735	KRM	02/07/2024	02/09/2024	
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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-03

2/7/2024 2:15:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.
Y402194-03 (Water)

Anions by IC 300.0

Chloride	262	31.2	mg/L	125	B4B0806	DLT	02/08/2024	02/10/2024
Sulfate	525	31.2	"	"	"	DLT	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	1710	5.00	"	1	B4B0735	KRM	02/07/2024	02/09/2024
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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

2/7/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402194-04 (Water)

Anions by IC 300.0

Chloride	244	31.2	mg/L	125	B4B0806	DLT	02/08/2024	02/10/2024	
Sulfate	522	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1760	5.00	"	1	B4B0920	KRM	02/09/2024	02/12/2024	
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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

2/7/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402194-05 (Water)

Anions by IC 300.0

Chloride	248	31.2	mg/L	125	B4B0806	DLT	02/08/2024	02/10/2024	
Sulfate	542	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1710	5.00	"	1	B4B0920	KRM	02/09/2024	02/12/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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 B4B0735 - NO PREP										
Blank (B4B0735-BLK1)					Prepared: 02/07/2024 Analyzed: 02/09/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4B0735-BS1)					Prepared: 02/07/2024 Analyzed: 02/09/2024					
Total Dissolved Solids	1020	5.00	mg/L	1080		94.1	90-110			
Duplicate (B4B0735-DUP1)					Source: Y402186-02		Prepared: 02/07/2024 Analyzed: 02/09/2024			
Total Dissolved Solids	1420	5.00	mg/L		1450			2.65	10	
Batch B4B0806 - Filter .45um non acidified										
Blank (B4B0806-BLK1)					Prepared: 02/08/2024 Analyzed: 02/10/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4B0806-BS1)					Prepared: 02/08/2024 Analyzed: 02/10/2024					
Chloride	3.69	0.250	mg/L	4.00		92.1	90-110			
Sulfate	3.62	0.250	"	4.00		90.4	90-110			
Matrix Spike (B4B0806-MS1)					Source: Y402194-02		Prepared: 02/08/2024 Analyzed: 02/10/2024			
Chloride	747		mg/L	500	252	99.0	90-110			
Sulfate	982		"	500	513	93.9	90-110			
Matrix Spike Dup (B4B0806-MSD1)					Source: Y402194-02		Prepared: 02/08/2024 Analyzed: 02/10/2024			
Chloride	749		mg/L	500	252	99.4	90-110	0.309	5	
Sulfate	988		"	500	513	95.0	90-110	0.552	5	

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 B4B0920 - NO PREP										
Blank (B4B0920-BLK1)					Prepared: 02/09/2024 Analyzed: 02/12/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4B0920-BS1)					Prepared: 02/09/2024 Analyzed: 02/12/2024					
Total Dissolved Solids	1000	5.00	mg/L	1080		92.8	90-110			
Duplicate (B4B0920-DUP1)					Source: Y402194-04 Prepared: 02/09/2024 Analyzed: 02/12/2024					
Total Dissolved Solids	1760	5.00	mg/L		1760			0.00	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.



February 16, 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. February 07, 2024. This project is associated with Origins project number Y402196-01.

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	Y402196-01	Water	February 7, 2024 14:35	02/07/2024 16:37
MW-02	Y402196-02	Water	February 7, 2024 12:45	02/07/2024 16:37
MW-03	Y402196-03	Water	February 7, 2024 14:15	02/07/2024 16:37
MW-04	Y402196-04	Water	February 7, 2024 14:25	02/07/2024 16:37
MW-05	Y402196-05	Water	February 7, 2024 14:45	02/07/2024 16:37

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

4402196

page 1 of 1

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

Project Manager: Andrew Newberry
Project Name: Sandau #34-12F
Project Number: 1
Samples Collected By: BU

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
MV-01	2-7-24	1435	3	X				X					1
MV-02		1245											2
MV-03		1415											3
MV-04		1425											4
MV-05		1445											5
													6
													7
													8
													9
													10

Relinquished By: Blake Ulrich Date: 2-7-24 Time: 1637

Relinquished By: Date: Time: 1037

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

Date Results Needed ~~X~~ Noble

S

Temp Received-

Bill to Dan

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 44021916

Client: Eagle

Client Project ID: Sandau #34-12F

Checklist Completed by: JSH/EMS

Shipped Via: HUO

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

Date/time completed: 2-8-12

Airbill #: N/A

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

Cooler Number/Temperature: 1 5 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 2/9/12

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

2/7/2024 2:35:00PM

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

Origins Laboratory, Inc. Y402196-01 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4B1405	Windo	02/14/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Acenaphthene	ND	2.00	"	"	"	Windo	"	"	U
Anthracene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Chrysene	ND	2.00	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	2.00	"	"	"	Windo	"	"	U
Fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Fluorene	ND	2.00	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Pyrene	ND	2.00	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.7 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.3 %	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

MW-02
2/7/2024 12:45:00PM

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

Origins Laboratory, Inc.
Y402196-02 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4B1405	Windo	02/14/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Acenaphthene	ND	2.00	"	"	"	Windo	"	"	U
Anthracene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Chrysene	ND	2.00	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	2.00	"	"	"	Windo	"	"	U
Fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Fluorene	ND	2.00	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Pyrene	ND	2.00	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.0 %	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

2/7/2024 2:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402196-03 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4B1405	Windo	02/14/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Acenaphthene	ND	2.00	"	"	"	Windo	"	"	U
Anthracene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Chrysene	ND	2.00	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	2.00	"	"	"	Windo	"	"	U
Fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Fluorene	ND	2.00	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Pyrene	ND	2.00	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	90.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.0 %	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-04

2/7/2024 2:25:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402196-04 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4B1405	Windo	02/14/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Acenaphthene	ND	2.00	"	"	"	Windo	"	"	U
Anthracene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Chrysene	ND	2.00	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	2.00	"	"	"	Windo	"	"	U
Fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Fluorene	ND	2.00	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Pyrene	ND	2.00	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.7 %	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

2/7/2024 2:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402196-05 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4B1405	Windo	02/14/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Acenaphthene	ND	2.00	"	"	"	Windo	"	"	U
Anthracene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Chrysene	ND	2.00	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	2.00	"	"	"	Windo	"	"	U
Fluoranthene	ND	2.00	"	"	"	Windo	"	"	U
Fluorene	ND	2.00	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	2.00	"	"	"	Windo	"	"	U
Pyrene	ND	2.00	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	91.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	92.5 %	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 B4B1405 - EPA 3510C_MS

Blank (B4B1405-BLK1)

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

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	200		"	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			

LCS (B4B1405-BS1)

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

1-Methylnaphthalene	19.5	0.200	ug/L	20.0		97.7	70-130			
2-Methylnaphthalene	19.4	0.200	"	20.0		97.1	70-130			
Acenaphthene	19.0	2.00	"	20.0		95.2	70-130			
Anthracene	18.1	2.00	"	20.0		90.5	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 B4B1405 - EPA 3510C_MS

LCS (B4B1405-BS1)

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

Benzo (a) anthracene	20.5	0.500	ug/L	20.0		103	70-130			
Benzo (a) pyrene	19.3	2.00	"	20.0		96.3	70-130			
Benzo (b) fluoranthene	19.3	2.00	"	20.0		96.3	70-130			
Benzo (g,h,i) perylene	19.3	2.00	"	20.0		96.3	70-130			
Benzo (k) fluoranthene	19.9	2.00	"	20.0		99.6	70-130			
Chrysene	19.5	2.00	"	20.0		97.6	70-130			
Dibenz (a,h) anthracene	19.0	2.00	"	20.0		95.2	70-130			
Fluoranthene	18.4	2.00	"	20.0		92.1	70-130			
Fluorene	19.0	2.00	"	20.0		95.0	70-130			
Indeno (1,2,3-cd) pyrene	19.8	2.00	"	20.0		98.9	70-130			
Naphthalene	20.6	0.200	"	20.0		103	70-130			
Phenanthrene	17.8	2.00	"	20.0		89.0	70-130			
Pyrene	17.6	2.00	"	20.0		87.9	70-130			
Surrogate: Fluorene-d10	200		"	200		99.4	60-130			
Surrogate: Anthracene-d10	190		"	200		92.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	190		"	200		93.1	60-130			

LCS Dup (B4B1405-BSD1)

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

1-Methylnaphthalene	20.1	0.200	ug/L	20.0		100	70-130	2.62	20	
2-Methylnaphthalene	19.8	0.200	"	20.0		98.9	70-130	1.77	20	
Acenaphthene	19.3	2.00	"	20.0		96.3	70-130	1.16	20	
Anthracene	18.1	2.00	"	20.0		90.5	70-130	0.0530	20	
Benzo (a) anthracene	19.5	0.500	"	20.0		97.4	70-130	5.26	20	
Benzo (a) pyrene	19.7	2.00	"	20.0		98.5	70-130	2.32	20	
Benzo (b) fluoranthene	18.8	2.00	"	20.0		94.1	70-130	2.34	20	
Benzo (g,h,i) perylene	19.7	2.00	"	20.0		98.6	70-130	2.29	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 - 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 B4B1405 - EPA 3510C_MS										
LCS Dup (B4B1405-BSD1)					Prepared: 02/14/2024 Analyzed: 02/14/2024					
Benzo (k) fluoranthene	17.9	2.00	ug/L	20.0		89.4	70-130	10.8	20	
Chrysene	19.4	2.00	"	20.0		97.1	70-130	0.451	20	
Dibenz (a,h) anthracene	20.1	2.00	"	20.0		100	70-130	5.27	20	
Fluoranthene	19.3	2.00	"	20.0		96.6	70-130	4.77	20	
Fluorene	19.4	2.00	"	20.0		97.2	70-130	2.27	20	
Indeno (1,2,3-cd) pyrene	20.1	2.00	"	20.0		100	70-130	1.55	20	
Naphthalene	20.4	0.200	"	20.0		102	70-130	0.994	20	
Phenanthrene	17.9	2.00	"	20.0		89.4	70-130	0.453	20	
Pyrene	17.5	2.00	"	20.0		87.5	70-130	0.521	20	
Surrogate: Fluorene-d10	200		"	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	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

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.



February 16, 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. February 07, 2024. This project is associated with Origins project number Y402197-01.

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	Y402197-01	Water	February 7, 2024 14:35	02/07/2024 16:37
MW-02	Y402197-02	Water	February 7, 2024 12:45	02/07/2024 16:37
MW-03	Y402197-03	Water	February 7, 2024 14:15	02/07/2024 16:37
MW-04	Y402197-04	Water	February 7, 2024 14:25	02/07/2024 16:37
MW-05	Y402197-05	Water	February 7, 2024 14:45	02/07/2024 16:37

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, INC

www.originslaboratory.com

4402197

page 1 of 1

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

Project Manager: Andrew Newberry
Project Name: Sandau #34-12F
Project Number: -
Samples Collected By: BU

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
MW-01	2-7-24	1435	3		X			X					1
MW-02		1245											2
MW-03		1415											3
MW-04		1425											4
MW-05		1445											5
													6
													7
													8
													9
													10

Relinquished By: Blake Ulrich Date: 2-7-24 Time: 1637
Relinquished By: Received By: Received By: Date: 2-7-24 Time: 1637

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

Date Results Needed: Noble

S

Temp Received-

*Bill to Dan

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y402197

Client: Eagle

Client Project ID: Sandau #34-12F

Checklist Completed by: JTH/EHS

Shipped Via: FW

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

Date/time completed: 2/8/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/5 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	VC
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]

2/9/24
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

2/7/2024 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402197-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4B0833	HK	02/08/2024	02/08/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	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-02
2/7/2024 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402197-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4B0833	HK	02/08/2024	02/09/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	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

2/7/2024 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402197-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4B0833	HK	02/08/2024	02/09/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	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-04

2/7/2024 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402197-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4B0833	HK	02/08/2024	02/09/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

120 %
97.1 %
110 %

70-130
70-130
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-05

2/7/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y402197-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4B0833	HK	02/08/2024	02/09/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HK	"	"	U
Benzene	ND	1.00	"	"	"	HK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HK	"	"	U
Naphthalene	ND	2.00	"	"	"	HK	"	"	U
Toluene	ND	1.00	"	"	"	HK	"	"	U
Xylenes, total	ND	1.00	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	97.6 %	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 - 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
Batch B4B0833 - EPA 5030B (Water)										
Blank (B4B0833-BLK1)					Prepared: 02/08/2024 Analyzed: 02/08/2024					
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	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B0833 - EPA 5030B (Water)										
LCS (B4B0833-BS1)					Prepared: 02/08/2024 Analyzed: 02/08/2024					
1,2,4-Trimethylbenzene	54.0	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	53.6	2.00	"	50.0		107	70-130			
Benzene	53.1	1.00	"	50.0		106	70-130			
Ethylbenzene	54.0	1.00	"	50.0		108	70-130			
m,p-Xylene	113	2.00	"	100		113	70-130			
Naphthalene	45.0	2.00	"	50.0		90.0	70-130			
o-Xylene	54.3	1.00	"	50.0		109	70-130			
Toluene	52.3	1.00	"	50.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0833 - EPA 5030B (Water)

Matrix Spike (B4B0833-MS1)		Source: Y402188-01			Prepared: 02/08/2024 Analyzed: 02/08/2024					
1,2,4-Trimethylbenzene	60.6	2.00	ug/L	50.0	ND	121	70-130			
1,3,5-Trimethylbenzene	60.8	2.00	"	50.0	ND	122	70-130			
Benzene	59.4	1.00	"	50.0	ND	119	70-130			
Ethylbenzene	60.2	1.00	"	50.0	ND	120	70-130			
m,p-Xylene	120	2.00	"	100	ND	120	70-130			
Naphthalene	46.5	2.00	"	50.0	ND	93.1	70-130			
o-Xylene	54.2	1.00	"	50.0	ND	108	70-130			
Toluene	57.2	1.00	"	50.0	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0833 - EPA 5030B (Water)

Matrix Spike Dup (B4B0833-MSD1)		Source: Y402188-01			Prepared: 02/08/2024 Analyzed: 02/08/2024					
1,2,4-Trimethylbenzene	59.5	2.00	ug/L	50.0	ND	119	70-130	1.85	20	
1,3,5-Trimethylbenzene	59.2	2.00	"	50.0	ND	118	70-130	2.68	20	
Benzene	59.1	1.00	"	50.0	ND	118	70-130	0.456	20	
Ethylbenzene	59.1	1.00	"	50.0	ND	118	70-130	1.85	20	
m,p-Xylene	117	2.00	"	100	ND	117	70-130	2.16	20	
Naphthalene	48.6	2.00	"	50.0	ND	97.2	70-130	4.35	20	
o-Xylene	53.5	1.00	"	50.0	ND	107	70-130	1.15	20	
Toluene	57.1	1.00	"	50.0	ND	114	70-130	0.210	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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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.

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