



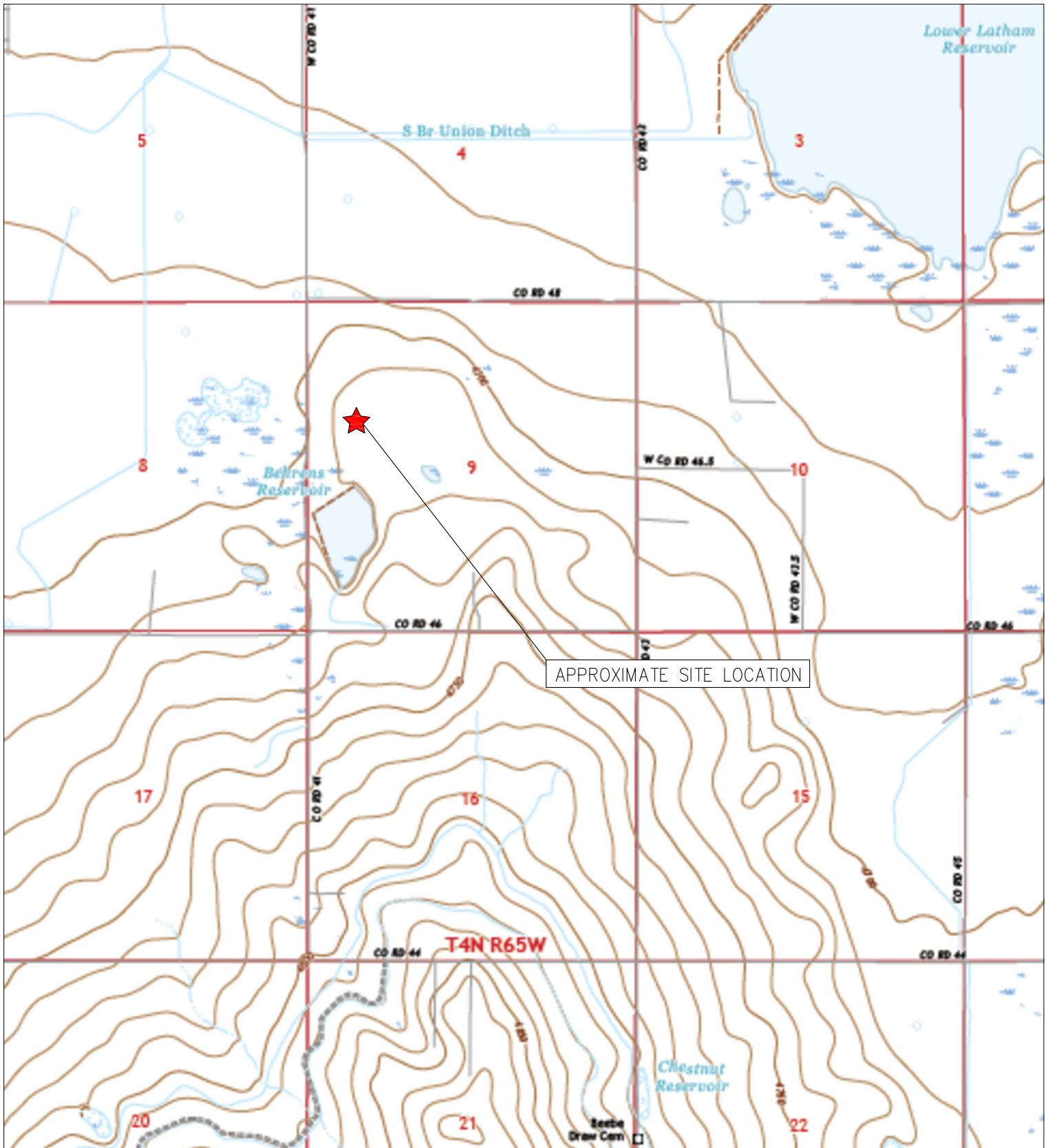
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Metals in Soil Map



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP
 REICHERT #9-5
 CLOSURE ASSESSMENT
 40.328910 / -104.675170
 SW¼ NW¼ SEC.9 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13629
 REMEDIATION # 34125



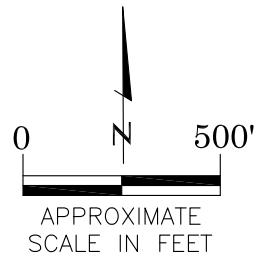
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER REICHERT #9-5 WELLHEAD
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP
 REICHERT #9-5
 CLOSURE ASSESSMENT
 40.328910 / -104.675170
 SW¼ NW¼ SEC.9 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13629
 REMEDIATION # 34125

FIGURE NO.
2

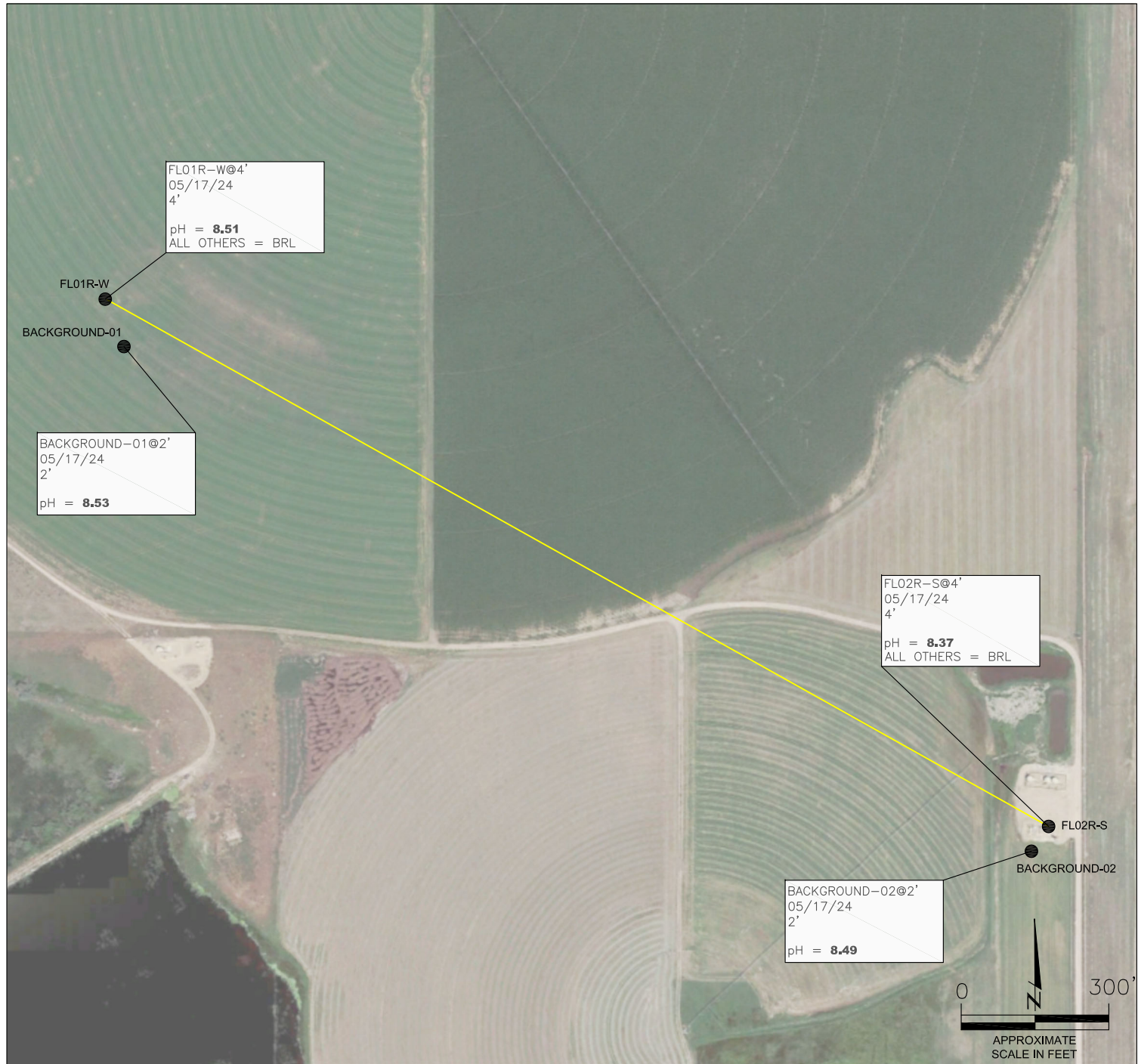
DRAWN BY:
ZM



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CONSULTING, LLC

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LEGEND

- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
O = TPH-ORO (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)
pH = pH (pH UNITS)
SAR= SODIUM ADSORPTION RATIO
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

BRL = BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS
TPH-ORO = TOTAL PETROLEUM HYDROCARBONS – OIL RANGE ORGANICS

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
REICHERT #9-5
CLOSURE ASSESSMENT
40.328910 / -104.675170
SW¼ NW¼ SEC.9 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-13629
REMEDIATION # 34125

FIGURE NO.
3

DRAWN BY:
ZM

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



FL01R-W@4'
05/17/24
4'

Arsenic = **3.05**
Barium = 80.6
Cadmium = **0.577**
Chromium (VI) = <0.101**
Copper = 22.8
Lead = 295*
Nickel = 7.31
Selenium = 0.228
Silver = <0.0842
Zinc = 160

FL01R-W

BACKGROUND-01

BACKGROUND-01@2'
05/17/24
2'

Arsenic = 1.70
Barium = 43.5
Cadmium = 0.116
Chromium (VI) = <0.169**
Copper = <9.06
Lead = 12.8
Nickel = 3.71
Selenium = <0.236
Silver = <0.0906
Zinc = <33.5

FL02R-S@4'
05/17/24
4'

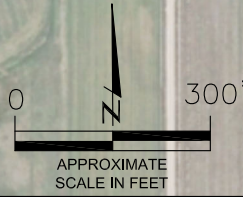
Arsenic = **3.33**
Barium = **92.4***
Cadmium = 0.157
Chromium (VI) = <0.143**
Copper = <9.98
Lead = 7.81
Nickel = 7.36
Selenium = <0.259
Silver = <0.0998
Zinc = <36.9

FL02R-S

BACKGROUND-02

BACKGROUND-02@2'
05/17/24
2'

Arsenic = 1.29
Barium = 35.1
Cadmium = 0.108
Chromium (VI) = <0.149**
Copper = <8.97
Lead = 13.9
Nickel = 2.98
Selenium = <0.233
Silver = <0.0897
Zinc = <33.2



LEGEND

- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

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

NOTES:
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 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

METALS IN SOIL MAP
REICHERT #9-5
CLOSURE ASSESSMENT
40.328910 / -104.675170
SW¼ NW¼ SEC.9 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-13629
REMIEDIATION # 34125

FIGURE NO.
4

DRAWN BY:
ZM

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8000 W 44th Ave, Wheat Ridge, CO 80033
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TABLES

Table 1: Field Data Summary Table

Table 2: Summary of Volatile Organic Soil Chemistry Data

Table 3: Summary of PAH's Soil Chemistry Data

Table 4: Summary of Soil Suitability for Reclamation

Table 5: Summary of Metals in Soil Chemistry Data

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY 100322
REICHERT #9-5, WELD COUNTY, COLORADO
REM # 34125

Sample ID	Sample Date	Depth	GPS Data		VOC Concentration (ppm)
			Latitude	Longitude	
FL01R-W @ 4'	5/17/2024	4	40.328924	-104.675208	5.1
FL02R-S @ 4'	5/17/2024	4	40.325964	-104.668365	2.6
Background-01 @ 2'	5/17/2024	2	40.328738	-104.675124	1.2
Background-02 @ 2'	5/17/2024	2	40.325861	-104.668494	0.7

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
REICHERT #9-5, WELD COUNTY, COLORADO
REM # 34125

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH RRO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL01R-W @ 4'	5/17/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
FL02R-S @ 4'	5/17/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
REICHERT #9-5, WELD COUNTY, COLORADO
REM # 34125

Sample ID	Sample Date	Depth (ft)	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)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FLO1R-W @ 4'	5/17/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.005	0.005
FLO2R-S @ 4'	5/17/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. * Indicates laboratory minimum detection limit in excess of SSL
- NA - Not analyzed

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY 100322
REICHERT #9-5, WELD COUNTY, COLORADO
REM # 34125

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01R-W @ 4'	5/17/2024	4	8.51	0.584	2.46	0.347
FL02R-S @ 4'	5/17/2024	4	8.37	0.358	1.10	0.268
Background-01 @ 2'	5/17/2024	2	8.53	0.410	1.34	0.174
Background-02 @ 2'	5/17/2024	2	8.49	0.322	1.36	0.134
Maximum Background Concentration			8.53	0.410	1.36	0.174
Average Background Concentration			8.51	0.366	1.35	0.154

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
REICHERT #9-5, WELD COUNTY, COLORADO
REM # 34125

Sample ID	Sample Date	Depth (ft)	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)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01R-W @ 4'	5/17/2024	4	3.05	80.6	0.577	<0.101*	22.8	295	7.31	0.228	<0.0842	160
FL02R-S @ 4'	5/17/2024	4	3.33	92.4	0.157	<0.143*	<9.98	7.81	7.36	<0.259	<0.0998	<36.9
Background-01 @ 2'	5/17/2024	2	1.70	43.5	0.116	<0.169*	<9.06	12.8	3.71	<0.236	<0.0906	<33.5
Background-02 @ 2'	5/17/2024	2	1.29	35.1	0.108	<0.149*	<8.97	13.9	2.98	<0.233	<0.0897	<33.2
Maximum Background Concentration			1.70	43.5	0.116			13.9	3.71			
125% Maximum Background Concentration			2.13	54.4	0.145			17.4	4.64			

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
- * Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed



ATTACHMENT A

Photo Log

Reichert #9-5
API # 05-123-13629
Remediation # 34125

Closure Assessment

May 2024



Flowline Removal/Assessment – 05/17/24



Looking north at flowline Pt A/terminus at wellhead
No petroleum hydrocarbon staining or odor observed



Looking south at flowline Pt B/terminus at separator
No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



June 13, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Reichert #9-5

Project Number - [none]

Attached are your analytical results for Noble - Reichert #9-5 received by Origins Laboratory, Inc. May 17, 2024. This project is associated with Origins project number Y405584-01.

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 - Reichert #9-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@4'	Y405584-01	Soil	May 17, 2024 12:43	05/17/2024 17:52
FL02R-S@4'	Y405584-02	Soil	May 17, 2024 13:07	05/17/2024 17:52
Background-01@2'	Y405584-03	Soil	May 17, 2024 12:49	05/17/2024 17:52
Background-02@2'	Y405584-04	Soil	May 17, 2024 13:13	05/17/2024 17:52

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 - Reichert #9-5

ORIGINS

LABORATORY LLC

Client:

Eagle Environmental Consulting
 8000 W 44th Ave

Project Manager:

Andrew Newberry

Project Name:

Reichert #9-5

Project Number:

557-432-0174

Collected By:

SL

Invoice/Billing Info:

Bill to Uncle

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

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	FLAND-NOR	5/17/14	1433	3	S	UNP	GC-9050A SAP-COR PH-9045B COP-2418A TANC-G15 METALS-TOX20Z	GC/SAP/PH- Standard Paste Pkg
2	FLAND-SOIL	5/17/14	1501	3	S	UNP		
3	Boulevard-NOR	5/17/14	1449	2	S	UNP		
4	Boulevard-SOIL	5/17/14	1333	2	S	UNP		
5								
6								
7								
8								
9								
10								

Relinquished By: [Signature] Date: 5/17/14 Time: 1752
 Received By: [Signature] Date: 5/17/14 Time: 1752

Temp Received- Received On Ice?
 Standard 48 Hr 72 Hr
 SAME DAY 24 Hr

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 - Reichert #9-5

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

Sample Receipt Checklist

Origins Work Order: 4405584 Client: Eagle
 Client Project ID: Reichert #9-5

Checklist Completed by: JH / EHD Shipped Via: TUP
 Date/time completed: 5/20/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: L 145 °C °C °C (Describe)

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 5/20/24

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

FL01R-W@4'

5/17/2024 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.347		0.0998	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.7 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2103	05/21/2024	05/21/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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 - Reichert #9-5

FL01R-W@4'

5/17/2024 12:43:00PM

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

Origins Laboratory, Inc.
Y405584-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B4E21 03	05/21/2024	05/21/2024	
Surrogate: Toluene-d8	98.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.67		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.60		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005		0.002	mg/kg	1	B4E2033	05/20/2024	05/21/2024	
2-Methylnaphthalene	0.005		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 - Reichert #9-5

FL01R-W@4'

5/17/2024 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E2033	05/20/2024	05/21/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B4E2227	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	2.46		0.0100	SAR	1	B4E2216	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.584		0.00500	mmhos/cm	1	B4E2227	05/22/2024	05/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.05		0.244	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
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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 - Reichert #9-5

FL01R-W@4'

5/17/2024 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-01 (Soil)

Table 915 metals by EPA 6020B

Barium	80.6		8.42	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Cadmium	0.577		0.0842	"	"	"	"	"	
Copper	22.8		8.42	"	"	"	"	"	
Lead	295		0.842	"	"	"	"	"	
Nickel	7.31		0.842	"	"	"	"	"	
Selenium	0.228		0.219	"	"	"	"	"	
Silver	ND		0.0842	"	"	"	"	"	
Zinc	160		31.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.101	0.252	mg/kg dry	1	2620890	06/05/2024	06/06/2024	U
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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 - Reichert #9-5

FL02R-S@4'
5/17/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.268		0.0982	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2103	05/21/2024	05/21/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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 - Reichert #9-5

FL02R-S@4'
 5/17/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405584-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B4E21 03	05/21/2024	05/21/2024	
Surrogate: Toluene-d8	96.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.38		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.05		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2033	05/20/2024	05/21/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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 - Reichert #9-5

FL02R-S@4'
5/17/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4E2033	05/20/2024	05/21/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B4E2227	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	1.10		0.0100	SAR	1	B4E2216	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.358		0.00500	mmhos/cm	1	B4E2227	05/22/2024	05/23/2024	
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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 - Reichert #9-5

FL02R-S@4'

5/17/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.33		0.289	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Barium	92.4		9.98	"	"	"	"	"	
Cadmium	0.157		0.0998	"	"	"	"	"	
Copper	ND		9.98	"	"	"	"	"	
Lead	7.81		0.998	"	"	"	"	"	
Nickel	7.36		0.998	"	"	"	"	"	
Selenium	ND		0.259	"	"	"	"	"	
Silver	ND		0.0998	"	"	"	"	"	
Zinc	ND		36.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.143	0.359	mg/kg dry	1	2620890	06/05/2024	06/06/2024	U
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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 - Reichert #9-5

Background-01@2'
5/17/2024 12:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.174		0.0993	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.64		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.39		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.53			pH Units	1	B4E2227	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	1.34		0.0100	SAR	1	B4E2216	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.410		0.00500	mmhos/cm	1	B4E2227	05/22/2024	05/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.70		0.263	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Barium	43.5		9.06	"	"	"	"	"	
Cadmium	0.116		0.0906	"	"	"	"	"	
Copper	ND		9.06	"	"	"	"	"	

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 - Reichert #9-5

Background-01@2'
5/17/2024 12:49:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-03 (Soil)

Table 915 metals by EPA 6020B

Lead	12.8		0.906	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Nickel	3.71		0.906	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.0906	"	"	"	"	"	
Zinc	ND		33.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.169	0.422	mg/kg dry	1	2620890	06/05/2024	06/06/2024	U
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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 - Reichert #9-5

Background-02@2'
5/17/2024 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.0984	mg/L	1	B4E2109	05/21/2024	05/22/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.13		0.499	meq/L	10	[CALC]	05/22/2024	05/23/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.15		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B4E2227	05/22/2024	05/23/2024	
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SAR by 20B Saturated Paste

SAR	1.36		0.0100	SAR	1	B4E2216	05/22/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.322		0.00500	mmhos/cm	1	B4E2227	05/22/2024	05/23/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.29		0.260	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Barium	35.1		8.97	"	"	"	"	"	
Cadmium	0.108		0.0897	"	"	"	"	"	
Copper	ND		8.97	"	"	"	"	"	

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 - Reichert #9-5

Background-02@2'
5/17/2024 1:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405584-04 (Soil)

Table 915 metals by EPA 6020B

Lead	13.9		0.897	mg/kg	10	B4E2030	05/20/2024	05/21/2024	
Nickel	2.98		0.897	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	ND		33.2	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.149	0.372	mg/kg dry	1	2620890	06/05/2024	06/06/2024	U
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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 - Reichert #9-5

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 B4E2103 - EPA 5030 (soil)										
Blank (B4E2103-BLK1)										
					Prepared: 05/21/2024 Analyzed: 05/21/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2103 - EPA 5030 (soil)

LCS (B4E2103-BS1)

Prepared: 05/21/2024 Analyzed: 05/21/2024

1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100		97.1	70-130			
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100		99.3	70-130			
Benzene	0.0969	0.00200	"	0.100		96.9	70-130			
Ethylbenzene	0.0935	0.00200	"	0.100		93.5	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0944	0.00200	"	0.100		94.4	70-130			
o-Xylene	0.0927	0.00200	"	0.100		92.7	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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 - Reichert #9-5

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 B4E2103 - EPA 5030 (soil)

Matrix Spike (B4E2103-MS1)	Source: Y405584-01			Prepared: 05/21/2024 Analyzed: 05/21/2024						
1,2,4-Trimethylbenzene	0.0706	0.00200	mg/kg	0.100	ND	70.6	70-130			
1,3,5-Trimethylbenzene	0.0717	0.00200	"	0.100	ND	71.7	70-130			
Benzene	0.0803	0.00200	"	0.100	ND	80.3	70-130			
Ethylbenzene	0.0748	0.00200	"	0.100	ND	74.8	70-130			
Naphthalene	0.0732	0.00380	"	0.100	ND	73.2	70-130			
Toluene	0.0749	0.00200	"	0.100	ND	74.9	70-130			
o-Xylene	0.0760	0.00200	"	0.100	ND	76.0	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2103 - EPA 5030 (soil)

Matrix Spike Dup (B4E2103-MSD1)	Source: Y405584-01			Prepared: 05/21/2024 Analyzed: 05/23/2024						
1,2,4-Trimethylbenzene	0.0525	0.00200	mg/kg	0.100	ND	52.5	70-130	29.4	20	QM-07
1,3,5-Trimethylbenzene	0.0580	0.00200	"	0.100	ND	58.0	70-130	21.2	20	QM-07
Benzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	3.73	20	
Ethylbenzene	0.0644	0.00200	"	0.100	ND	64.4	70-130	14.9	20	QM-07
Naphthalene	0.0691	0.00380	"	0.100	ND	69.1	70-130	5.74	20	QM-07
Toluene	0.0733	0.00200	"	0.100	ND	73.3	70-130	2.13	20	
o-Xylene	0.0672	0.00200	"	0.100	ND	67.2	70-130	12.3	20	QM-07
m,p-Xylene	0.126	0.00400	"	0.200	ND	63.0	70-130	18.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2201 - EPA 3550B										
Blank (B4E2201-BLK1)										
					Prepared: 05/22/2024 Analyzed: 05/24/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.2	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2201 - EPA 3550B

LCS (B4E2201-BS1)

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	858	50.0	mg/kg	1000		85.8	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2201 - EPA 3550B

Matrix Spike (B4E2201-MS1)	Source: Y405583-01			Prepared: 05/22/2024 Analyzed: 05/24/2024						
Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2201 - EPA 3550B										
Matrix Spike Dup (B4E2201-MSD1)					Source: Y405583-01					Prepared: 05/22/2024 Analyzed: 05/24/2024
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130	3.87	35	
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130	3.39	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2030 - EPA 3050B

Blank (B4E2030-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E2030-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	5.71	0.290	mg/kg	5.00		114	80-120			
Barium	578	10.0	"	500		116	80-120			
Cadmium	5.63	0.100	"	5.00		113	80-120			
Copper	55.1	10.0	"	50.0		110	80-120			
Lead	5.48	1.00	"	5.00		110	80-120			
Nickel	4.90	1.00	"	5.00		98.1	80-120			
Selenium	10.9	0.260	"	9.50		115	80-120			
Silver	5.41	0.100	"	5.00		108	80-120			
Zinc	55.8	37.0	"	50.0		112	80-120			

Matrix Spike (B4E2030-MS1)

Source: Y405583-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

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 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2030 - EPA 3050B

Matrix Spike (B4E2030-MS1)		Source: Y405583-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	8.41	0.285	mg/kg	4.91	3.15	107	75-125			
Barium	669	9.82	"	491	81.1	120	75-125			
Cadmium	5.53	0.0982	"	4.91	0.196	109	75-125			
Copper	62.5	9.82	"	49.1	8.76	110	75-125			
Lead	15.1	0.982	"	4.91	9.87	107	75-125			
Nickel	12.0	0.982	"	4.91	7.43	93.5	75-125			
Selenium	10.4	0.255	"	9.33	0.321	108	75-125			
Silver	5.26	0.0982	"	4.91	0.0325	106	75-125			
Zinc	89.8	36.3	"	49.1	39.6	102	75-125			

Matrix Spike Dup (B4E2030-MSD1)		Source: Y405583-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	7.65	0.262	mg/kg	4.52	3.15	99.6	75-125	9.48	20	
Barium	629	9.04	"	452	81.1	121	75-125	6.21	20	
Cadmium	5.05	0.0904	"	4.52	0.196	107	75-125	9.12	20	
Copper	55.3	9.04	"	45.2	8.76	103	75-125	12.3	20	
Lead	14.0	0.904	"	4.52	9.87	91.8	75-125	7.69	20	
Nickel	11.7	0.904	"	4.52	7.43	93.6	75-125	3.03	20	
Selenium	9.34	0.235	"	8.58	0.321	105	75-125	10.4	20	
Silver	4.72	0.0904	"	4.52	0.0325	104	75-125	10.7	20	
Zinc	84.4	33.4	"	45.2	39.6	99.2	75-125	6.24	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2033 - EPA 3580

Blank (B4E2033-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130			
2-Methylnaphthalene	0.209	0.002	"	0.200		104	70-130			
Acenaphthene	0.210	0.020	"	0.200		105	70-130			
Anthracene	0.211	0.020	"	0.200		105	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2033 - EPA 3580

LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Benzo (a) anthracene	0.221	0.005	mg/kg	0.200		111	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130			
Benzo (b) fluoranthene	0.223	0.020	"	0.200		111	70-130			
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130			
Benzo (k) fluoranthene	0.208	0.020	"	0.200		104	70-130			
Chrysene	0.214	0.020	"	0.200		107	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200		110	70-130			
Fluoranthene	0.205	0.020	"	0.200		102	70-130			
Fluorene	0.214	0.020	"	0.200		107	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130			
Naphthalene	0.209	0.002	"	0.200		104	70-130			
Phenanthrene	0.210	0.020	"	0.200		105	70-130			
Pyrene	0.210	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4E2033-MS1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.221	0.002	mg/kg	0.200	ND	111	70-130			
2-Methylnaphthalene	0.221	0.002	"	0.200	ND	110	70-130			
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130			
Anthracene	0.231	0.020	"	0.200	ND	115	70-130			
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.219	0.020	"	0.200	ND	110	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.0006	101	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2033 - EPA 3580

Matrix Spike (B4E2033-MS1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.0005	94.4	70-130			
Chrysene	0.221	0.020	"	0.200	ND	110	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	0.0009	104	70-130			
Fluoranthene	0.212	0.020	"	0.200	ND	106	70-130			
Fluorene	0.213	0.020	"	0.200	ND	107	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.218	0.020	"	0.200	ND	109	70-130			
Pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

Matrix Spike Dup (B4E2033-MSD1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	7.66	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	4.41	20	
Acenaphthene	0.209	0.020	"	0.200	ND	105	70-130	1.85	20	
Anthracene	0.227	0.020	"	0.200	ND	113	70-130	1.77	20	
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	108	70-130	2.95	20	
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	105	70-130	3.93	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	2.35	20	
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.0006	98.3	70-130	3.17	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	0.0005	86.5	70-130	8.69	20	
Chrysene	0.200	0.020	"	0.200	ND	99.9	70-130	9.95	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.0009	101	70-130	2.34	20	
Fluoranthene	0.200	0.020	"	0.200	ND	99.9	70-130	5.93	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2033 - EPA 3580

Matrix Spike Dup (B4E2033-MSD1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Fluorene	0.206	0.020	mg/kg	0.200	ND	103	70-130	3.30	20	
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130	3.10	20	
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130	2.99	20	
Phenanthrene	0.205	0.020	"	0.200	ND	102	70-130	6.30	20	
Pyrene	0.207	0.020	"	0.200	ND	104	70-130	2.00	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

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 B4E2109 - DTPA Sorbitol Preparation										
Blank (B4E2109-BLK1)					Prepared: 05/21/2024 Analyzed: 05/22/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E2109-DUP1)		Source: Y405584-01			Prepared: 05/21/2024 Analyzed: 05/22/2024					
Boron	0.349	0.102	mg/L		0.347			0.785	50	
Batch B4E2216 - Saturated Paste Metals										
Blank (B4E2216-BLK1)					Prepared: 05/22/2024 Analyzed: 05/23/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4E2216-DUP1)		Source: Y405584-01			Prepared: 05/22/2024 Analyzed: 05/23/2024					
Calcium PPM	31.1	10.0	mg/L		33.5			7.59	50	
SAR	ND	0.0100	SAR		2.46				200	
Magnesium PPM	6.19	10.0	mg/L		6.79			9.24	50	
Sodium PPM	56.4	10.0	"		59.7			5.72	50	

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 Project Number: [none]
 Project: Noble - Reichert #9-5

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2227 - Saturated Paste pH/EC										
Blank (B4E2227-BLK1)					Prepared: 05/22/2024 Analyzed: 05/23/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E2227-DUP1)					Source: Y405584-01 Prepared: 05/22/2024 Analyzed: 05/23/2024					
Specific Conductance (EC)	0.576	0.00500	mmhos/cm		0.584			1.21	25	
pH	8.35		pH Units		8.51			1.90	25	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Reichert #9-5

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2620890 - SW846 3060A										
BLANK (1205751350-BLK)					Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.258	mg/kg				-			U
LCS (1205751351-BKS)					Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	3.05	0.302	mg/kg	3.02		101	80-120			
DUP (1205751352 D)					Source: 669711002 Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	0.144	0.329	mg/kg dry		0.181		0-50	22.6	50	J
MS (1205751353 S)					Source: 669711002 Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.58	0.329	mg/kg dry	3.29	0.181	73.2	75-125			
DUP (1205751354 D)					Source: Y405584-03 Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.423	mg/kg dry		<0.169		0-50	N/A	50	U
MS (1205751355 S)					Source: Y405584-03 Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.62	0.423	mg/kg dry	4.23	<0.169	59.9	75-125			
ILCS (1205751356-ILCS)					Prepared: 06/05/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	5.36	0.264	mg/kg	5.29		101	80-120			

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 - Reichert #9-5

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

J Greater than the detection limit but less than the reporting limit

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.

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Jordan A. Bynon, Project Manager