



FIGURES

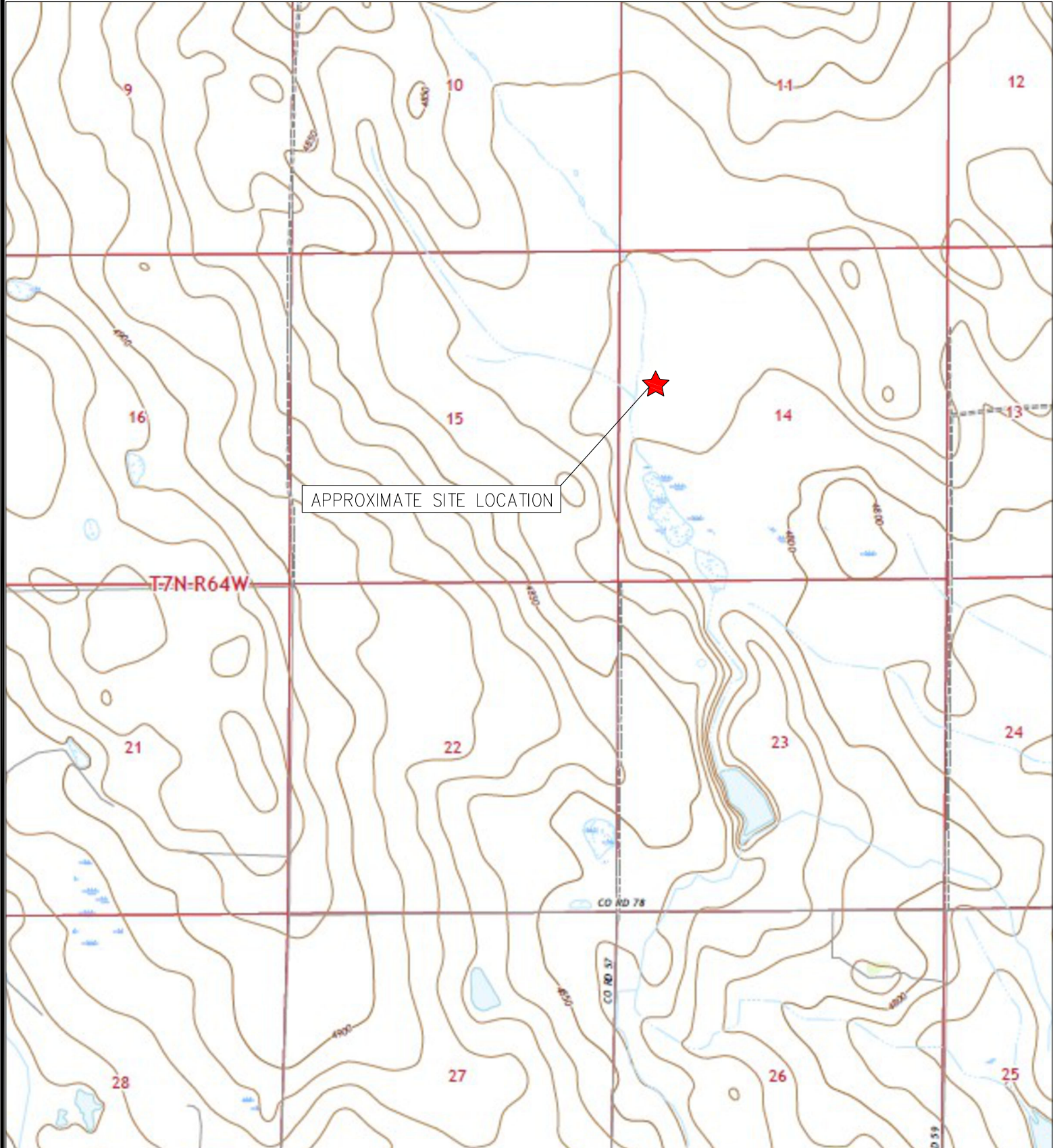
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Boring Analytical Map

Figure 4: Soil Boring Polycyclic Aromatic Hydrocarbons Map

Figure 5: Soil Boring Metals in Soil Map



APPROXIMATE SITE LOCATION

T7N-R64W



TOPOGRAPHIC SITE LOCATION MAP
 SHABLE #14-25
 HISTORICAL RELEASE
 40.576860 / -104.521340
 NW¼ NW¼ SEC.14 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-28013
 REMEDIATION # 30776



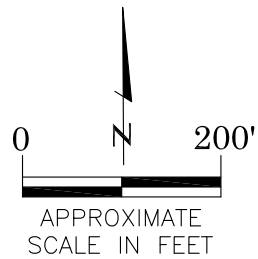
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

 FORMER SHABLE #14-25 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP

SHABLE #14-25
HISTORICAL RELEASE
40.576860 / -104.521340
NW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28013
REMEDIAATION # 30776

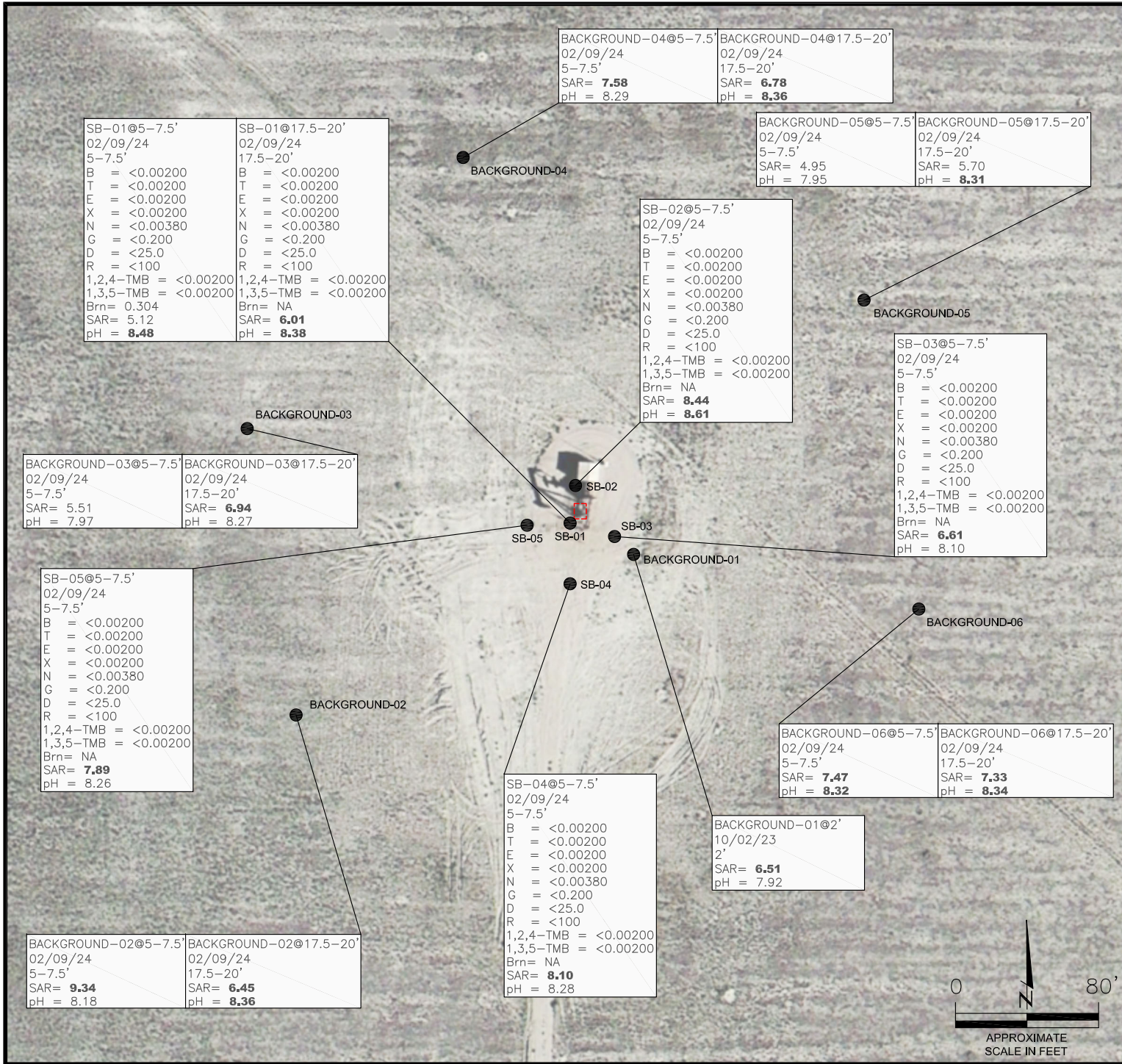
FIGURE NO.
2

DRAWN BY:
EL



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BACKGROUND-04@5-7.5' 02/09/24 5-7.5' SAR= 7.58 pH = 8.29	BACKGROUND-04@17.5-20' 02/09/24 17.5-20' SAR= 6.78 pH = 8.36
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SB-01@5-7.5' 02/09/24 5-7.5' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= 0.304 SAR= 5.12 pH = 8.48	SB-01@17.5-20' 02/09/24 17.5-20' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= NA SAR= 6.01 pH = 8.38
--	--

BACKGROUND-05@5-7.5' 02/09/24 5-7.5' SAR= 4.95 pH = 7.95	BACKGROUND-05@17.5-20' 02/09/24 17.5-20' SAR= 5.70 pH = 8.31
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SB-02@5-7.5' 02/09/24 5-7.5' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= NA SAR= 8.44 pH = 8.61
--

SB-03@5-7.5' 02/09/24 5-7.5' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= NA SAR= 6.61 pH = 8.10

BACKGROUND-03@5-7.5' 02/09/24 5-7.5' SAR= 5.51 pH = 7.97	BACKGROUND-03@17.5-20' 02/09/24 17.5-20' SAR= 6.94 pH = 8.27
--	---

SB-05@5-7.5' 02/09/24 5-7.5' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= NA SAR= 7.89 pH = 8.26

SB-04@5-7.5' 02/09/24 5-7.5' B = <0.00200 T = <0.00200 E = <0.00200 X = <0.00200 N = <0.00380 G = <0.200 D = <25.0 R = <100 1,2,4-TMB = <0.00200 1,3,5-TMB = <0.00200 Brn= NA SAR= 8.10 pH = 8.28

BACKGROUND-06@5-7.5' 02/09/24 5-7.5' SAR= 7.47 pH = 8.32	BACKGROUND-06@17.5-20' 02/09/24 17.5-20' SAR= 7.33 pH = 8.34
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BACKGROUND-01@2' 10/02/23 2' SAR= 6.51 pH = 7.92

BACKGROUND-02@5-7.5' 02/09/24 5-7.5' SAR= 9.34 pH = 8.18	BACKGROUND-02@17.5-20' 02/09/24 17.5-20' SAR= 6.45 pH = 8.36
---	--

LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- 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)
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)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER

NA - NOT ANALYZED

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.

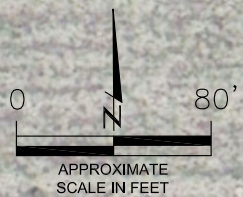
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
SHABLE #14-25
HISTORICAL RELEASE
40.576860 / -104.521340
NW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28013
REMEDIATION # 30776

FIGURE NO.
3
DRAWN BY:
GK

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LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
SS-02 SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SB-01@5-7.5'
02/09/24
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
Pyrene = <0.020

SB-01@17.5-20'
02/09/24
17.5-20'

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
Pyrene = <0.020

SB-02@5-7.5'
02/09/24
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
Pyrene = <0.020

SB-05@5-7.5'
02/09/24
5-7.5'

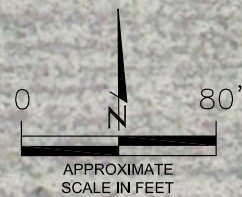
1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020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

SB-04@5-7.5'
02/09/24
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
Pyrene = <0.020

SB-03@5-7.5'
02/09/24
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
Pyrene = <0.020



POLYCYCLIC AROMATIC HYDROCARBONS MAP

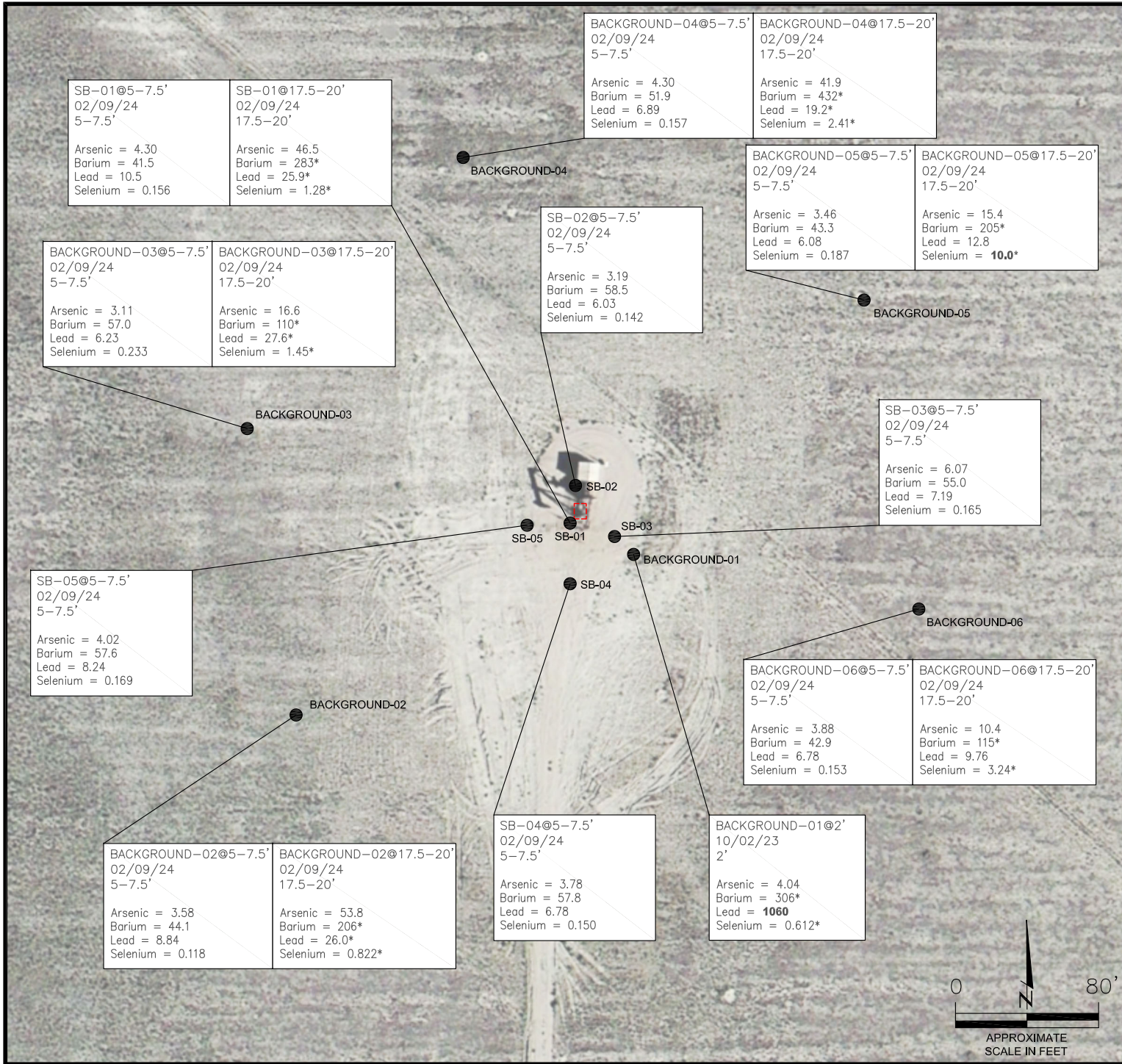
SHABLE #14-25
HISTORICAL RELEASE
40.576860 / -104.521340
NW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28013
REMEDIATION # 30776

FIGURE NO.
4

DRAWN BY:
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LEGEND

----- INITIAL ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES
SS-02 SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION	DATE SAMPLE COLLECTED	APPROXIMATE DEPTH	Arsenic = (mg/kg)	Barium = (mg/kg)	Lead = (mg/kg)	Selenium = (mg/kg)
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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 HIGH CONCENTRATIONS, EXCLUDING OUTLIERS, WHERE APPLICABLE.

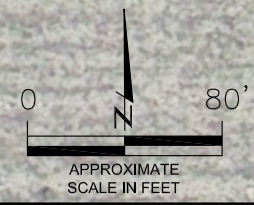
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP
SHABLE #14-25
HISTORICAL RELEASE
40.576860 / -104.521340
NW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28013
REMEDATION # 30776

FIGURE NO. 5	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>
DRAWN BY: GK	





TABLES

Table 1: Field Data Summary

Table 2: Summary of Volatile Organic Soil Chemistry Data

Table 3: Summary of PAH 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
SHABLE #14-25, WELD COUNTY, COLORADO
REM # 30776

Sample ID	Sample Date	Depth (ft)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH-SS-01 @ 7'	10/2/2023	7	40.576907	-104.521346	31.1
WH-SS-02 @ 7'	10/2/2023	7	40.576897	-104.521332	26.4
WH-SS-03 @ 7'	10/2/2023	7	40.576882	-104.521349	19.2
WH-SS-04 @ 7'	10/2/2023	7	40.576896	-104.521357	63.8
WH-FS-01 @ 8'	10/2/2023	8	40.576895	-104.521347	161.2
Background-01 @ 2'	10/2/2023	2	40.576831	-104.521243	1.8
WH-N @ 0.5'	10/2/2023	0.5	40.576917	-104.521344	0.9
WH-E @ 0.5'	10/2/2023	0.5	40.576897	-104.521313	0.8
WH-S @ 0.5'	10/2/2023	0.5	40.576874	-104.521345	1.0
WH-W @ 0.5'	10/2/2023	0.5	40.576898	-104.521369	0.5
SB-01 @ 5-7.5'	2/9/2024	5-7.5	40.576878	-104.521366	3.2
SB-01 @ 17.5-20'	2/9/2024	17.5-20	40.576878	-104.521366	2.2
SB-02 @ 5-7.5'	2/9/2024	5-7.5	40.576935	-104.521356	2.7
SB-03 @ 5-7.5'	2/9/2024	5-7.5	40.576860	-104.521276	2.5
SB-04 @ 5-7.5'	2/9/2024	5-7.5	40.576788	-104.521368	3.5
SB-05 @ 5-7.5'	2/9/2024	5-7.5	40.576875	-104.521452	3.2
Background-02 @ 5-7.5'	2/9/2024	5-7.5	40.576589	-104.521903	2.2
Background-02 @ 17.5-20'	2/9/2024	17.5-20	40.576589	-104.521903	1.7
Background-03 @ 5-7.5'	2/9/2024	5-7.5	40.577024	-104.522010	1.9
Background-03 @ 17.5-20'	2/9/2024	17.5-20	40.577024	-104.522010	1.1
Background-04 @ 5-7.5'	2/9/2024	5-7.5	40.577434	-104.521570	1.3
Background-04 @ 17.5-20'	2/9/2024	17.5-20	40.577434	-104.521570	0.9
Background-05 @ 5-7.5'	2/9/2024	5-7.5	40.577217	-104.520778	2.1
Background-05 @ 17.5-20'	2/9/2024	17.5-20	40.577217	-104.520778	1.5
Background-06 @ 5-7.5'	2/9/2024	5-7.5	40.576747	-104.520672	2.1
Background-06 @ 17.5-20'	2/9/2024	17.5-20	40.576747	-104.520672	1.2

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
SHABLE #14-25, WELD COUNTY, COLORADO
REM # 30776

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 ORO (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**		
WH-SS-01 @ 7'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
WH-SS-02 @ 7'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
WH-SS-03 @ 7'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
WH-SS-04 @ 7'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	0.382	<25.0	<100
WH-FS-01 @ 8'	10/2/2023	8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-01 @ 5-7.5'	2/9/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-01 @ 17.5-20'	2/9/2024	17.5-20	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-02 @ 5-7.5'	2/9/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-03 @ 5-7.5'	2/9/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-04 @ 5-7.5'	2/9/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-05 @ 5-7.5'	2/9/2024	5-7.5	<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
SHABLE #14-25, WELD COUNTY, COLORADO
REM # 30776

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
WH-SS-01 @ 7"	10/2/2023	7	<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
WH-SS-02 @ 7"	10/2/2023	7	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.007	0.005
WH-SS-03 @ 7"	10/2/2023	7	<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
WH-SS-04 @ 7"	10/2/2023	7	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.015	0.013
WH-FS-01 @ 8"	10/2/2023	8	<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
SB-01 @ 5-7.5'	2/9/2024	5-7.5	<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
SB-01 @ 17.5-20'	2/9/2024	17.5-20	<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
SB-02 @ 5-7.5'	2/9/2024	5-7.5	<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
SB-03 @ 5-7.5'	2/9/2024	5-7.5	<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
SB-04 @ 5-7.5'	2/9/2024	5-7.5	<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
SB-05 @ 5-7.5'	2/9/2024	5-7.5	<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

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY 100322
SHABLE #14-25, WELD COUNTY, COLORADO
REM # 30776

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
WH-SS-01 @ 7'	10/2/2023	7	8.37	0.439	3.37	0.948
WH-SS-02 @ 7'	10/2/2023	7	8.26	1.18	7.89	0.521
WH-SS-03 @ 7'	10/2/2023	7	8.26	1.02	5.34	0.885
WH-SS-04 @ 7'	10/2/2023	7	8.28	1.07	5.11	0.592
WH-FS-01 @ 8'	10/2/2023	8	8.09	3.30	5.44	1.02
SB-01 @ 5-7.5'	2/9/2024	5-7.5	8.48	NA	5.12	0.304
SB-01 @ 17.5-20'	2/9/2024	17.5-20	8.38	NA	6.01	NA
SB-02 @ 5-7.5'	2/9/2024	5-7.5	8.61	NA	8.44	NA
SB-03 @ 5-7.5'	2/9/2024	5-7.5	8.10	NA	6.61	NA
SB-04 @ 5-7.5'	2/9/2024	5-7.5	8.28	NA	8.10	NA
SB-05 @ 5-7.5'	2/9/2024	5-7.5	8.26	NA	7.89	NA
Background-01 @ 2'	10/2/2023	2	7.92	NA	6.51	NA
Background-02 @ 5-7.5'	2/9/2024	5-7.5	8.18	NA	9.34	NA
Background-02 @ 17.5-20'	2/9/2024	17.5-20	8.36	NA	6.45	NA
Background-03 @ 5-7.5'	2/9/2024	5-7.5	7.97	NA	5.51	NA
Background-03 @ 17.5-20'	2/9/2024	17.5-20	8.27	NA	6.94	NA
Background-04 @ 5-7.5'	2/9/2024	5-7.5	8.29	NA	7.58	NA
Background-04 @ 17.5-20'	2/9/2024	17.5-20	8.36	NA	6.78	NA
Background-05 @ 5-7.5'	2/9/2024	5-7.5	7.95	NA	4.95	NA
Background-05 @ 17.5-20'	2/9/2024	17.5-20	8.31	NA	5.70	NA
Background-06 @ 5-7.5'	2/9/2024	5-7.5	8.32	NA	7.47	NA
Background-06 @ 17.5-20'	2/9/2024	17.5-20	8.34	NA	7.33	
Maximum Background Concentration			8.36		9.34	
Average Background Concentration			8.21		6.78	

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
SHABLE #14-25, WELD COUNTY, COLORADO
REM # 30776

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
WH-SS-01 @ 7'	10/2/2023	7	2.38	48.2	<0.25	<0.248*	4.21	16.4	4.56	0.431	<0.25	19.1
WH-SS-02 @ 7'	10/2/2023	7	2.47	73	<0.25	<0.488*	9.32	37.9	7.84	0.634	<0.25	35.8
WH-SS-03 @ 7'	10/2/2023	7	2.35	77.4	<0.25	<0.246*	9.49	28.8	8.18	0.686	<0.25	37
WH-SS-04 @ 7'	10/2/2023	7	2.37	90	<0.25	<0.244*	9.26	52.9	7.63	0.577	<0.25	30.4
WH-FS-01 @ 8'	10/2/2023	8	2.61	101	<0.25	<0.244*	9.6	16.4	9.18	0.796	<0.25	42.3
SB-01 @ 5-7.5'	2/9/2024	5-7.5	4.30	41.5	NA	NA	NA	10.5	NA	0.156	NA	NA
SB-01 @ 17.5-20'	2/9/2024	17.5-20	46.5	283	NA	NA	NA	25.9	NA	1.28	NA	NA
SB-02 @ 5-7.5'	2/9/2024	5-7.5	3.19	58.5	NA	NA	NA	6.03	NA	0.142	NA	NA
SB-03 @ 5-7.5'	2/9/2024	5-7.5	6.07	55.0	NA	NA	NA	7.19	NA	0.165	NA	NA
SB-04 @ 5-7.5'	2/9/2024	5-7.5	3.78	57.8	NA	NA	NA	6.78	NA	0.150	NA	NA
SB-05 @ 5-7.5'	2/9/2024	5-7.5	4.02	57.6	NA	NA	NA	8.24	NA	0.169	NA	NA
Background-01 @ 2'	10/2/2023	2	4.04	306	NA	NA	NA	1060	NA	0.612	NA	NA
Background-02 @ 5-7.5'	2/9/2024	5-7.5	3.58	44.1	NA	NA	NA	8.84	NA	0.118	NA	NA
Background-02 @ 17.5-20'	2/9/2024	17.5-20	53.8	206	NA	NA	NA	26.0	NA	0.822	NA	NA
Background-03 @ 5-7.5'	2/9/2024	5-7.5	3.11	57.0	NA	NA	NA	6.23	NA	0.233	NA	NA
Background-03 @ 17.5-20'	2/9/2024	17.5-20	16.6	110	NA	NA	NA	27.6	NA	1.45	NA	NA
Background-04 @ 5-7.5'	2/9/2024	5-7.5	4.30	51.9	NA	NA	NA	6.89	NA	0.157	NA	NA
Background-04 @ 17.5-20'	2/9/2024	17.5-20	41.9	432	NA	NA	NA	19.2	NA	2.41	NA	NA
Background-05 @ 5-7.5'	2/9/2024	5-7.5	3.46	43.3	NA	NA	NA	6.08	NA	0.187	NA	NA
Background-05 @ 17.5-20'	2/9/2024	17.5-20	15.4	205	NA	NA	NA	12.8	NA	10.0	NA	NA
Background-06 @ 5-7.5'	2/9/2024	5-7.5	3.88	42.9	NA	NA	NA	6.78	NA	0.153	NA	NA
Background-06 @ 17.5-20'	2/9/2024	17.5-20	10.4	115	NA	NA	NA	9.76	NA	3.24	NA	NA
Maximum Background Concentration			53.8	432				1060		10.0		
125% Maximum Background Concentration			67.3	540				1325		12.5		

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

Soil Boring Logs


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	(0-8') clayey SAND - brown, moist, very loose to medium dense, fine grained, poorly-graded with ~20-30% clay, N/O, N/S (8-14') sandy CLAY - brown, moist, medium stiff to stiff, low to medium plasticity, poorly-graded with ~15-20% fine grained sand, N/O, N/S (14-15') poorly-graded SAND - tan, moist, loose, fine grained, poorly-graded, N/O, N/S (15-20') well-graded SAND - brown/red/tan, moist, very loose, fine to coarse grained, well-graded, N/O, N/S BoB @ 20'	SC	DP	1	70	1.6	N/A		Well not completed	
2.1										
5			DP	2	100	3.2	N/A			
2.9										
10		CL	DP	3	80	2.8	N/A			
2.9										
15		SP								
20		SW	DP	4	90	2.4	N/A			
2.2										
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: 02/09/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-25		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> 8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 0920/0950			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0930 & 17.5-20/0947			


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	(0-3') sandy CLAY - brown, moist, medium stiff to stiff, low to medium plasticity, poorly-graded with ~15-20% fine grained sand, N/O, N/S	CL	DP	1	100	1.7	N/A		Well not completed	
3	(3-7') clayey SAND - tan/brown, moist, loose to medium dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					2.3				
5	(7-10') clayey SAND - grey, moist, medium dense to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S	SC	DP	2	90	2.7	N/A			
7						1.2				
10	BoB @ 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: 02/09/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-25		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1030/1045			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1037			


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	(0-3') sandy CLAY - brown, moist, medium stiff to stiff, low to medium plasticity, poorly-graded with ~15-20% fine grained sand, N/O, N/S	CL	DP	1	100	2.2	N/A		Well not completed	
3	(3-7') clayey SAND - tan/brown, moist, loose to medium dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					1.9				
5	(7-10') clayey SAND - grey, moist, medium dense to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S	SC	DP	2	90	2.5	N/A			
7						1.9				
10	BoB @ 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: 02/09/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-25		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1020/1030			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1025			

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	(0-3') sandy CLAY - brown, moist, medium stiff to stiff, low to medium plasticity, poorly-graded with ~15-20% fine grained sand, N/O, N/S	CL	DP	1	90	2.6	N/A		Well not completed	
3	(3-7') clayey SAND - tan/brown, moist, loose to medium dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					2.9				
5	(7-10') clayey SAND - grey, moist, medium dense to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S	SC	DP	2	90	3.5	N/A			
7						3.4				
10	BoB @ 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: 02/09/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-25		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 0950/1005			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0958			

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	(0-3') sandy CLAY - brown, moist, medium stiff to stiff, low to medium plasticity, poorly-graded with ~15-20% fine grained sand, N/O, N/S	CL	DP	1	80	2.7	N/A		Well not completed	
3	(3-7') clayey SAND - tan/brown, moist, loose to medium dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					2.5				
5	(7-10') clayey SAND - grey, moist, medium dense to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S	SC	DP	2	90	3.2	N/A			
7						2.1				
10	BoB @ 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: 02/09/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-25	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1005/1020	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1015	



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					
0	(0-3') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~20-25% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.1	N/A		Well not completed
	(3-9') clayey SAND - brown, moist, loose to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					0.9			
5	@7-8' - sandy CLAY lens	SC	DP	2	90	2.2	N/A		
						2.0			
10	(9-13') sandy CLAY - tan/brown, moist, stiff, low plasticity, poorly-graded with ~25-30% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	3	90	2.1	N/A		
	(13-15') clayey SAND - brown, moist, medium dense to dense, fine grained, moderately-graded with ~25% clay, N/O, N/S	SC				1.8			
15	(15-20') well-graded SAND - brown/red/tan, moist, very loose, fine to coarse grained, well-graded, N/O, N/S	SW	DP	4	100	1.7	N/A		
						1.7			
20	BoB @ 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: 02/09/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-25		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1055/1130			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1105 & 17.5-20/1126			

DEPTH (FT)	LITHOLOGY	SAMPLE			OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER					
0	(0-3') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~20-25% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	1.2	N/A		Well not completed
	(3-9') clayey SAND - brown, moist, loose to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					2.2			
5	@7-8' - sandy CLAY lens	SC	DP	2	100	1.9	N/A		
						1.6			
10	(9-13') sandy CLAY - tan/brown, moist, stiff, low plasticity, poorly-graded with ~25-30% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	3	75	1.4	N/A		
	(13-15') clayey SAND - brown, moist, medium dense to dense, fine grained, moderately-graded with ~25% clay, N/O, N/S					1.8			
15	(15-17.5') moderately-graded SAND - brown/tan, moist, loose, fine to medium grained, moderately-graded, N/O, N/S	SC					N/A		
	(17.5-19') well-graded SAND - brown/red, moist, loose, fine to coarse grained, well-graded, N/O, N/S	SM	DP	4	90	0.9			
20	(19-19.5') CLAY, black, moist, soft, low plasticity, poorly-graded, N/O	SW					N/A		
	(19.5-20') CLAY, grey, moist, stiff, high plasticity, poorly-graded, N/O, N/S	CL				1.1			
20	BoB @ 20'								

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: 02/09/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-25	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1130/1200	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1140 & 17.5-20/1157	



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	(0-3') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~20-25% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.1	N/A		Well not completed	
	(3-9') clayey SAND - brown, moist, loose to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					1.1				
5	@7-8' - sandy CLAY lens	SC	DP	2	100	1.3	N/A			
						1.8				
10	(9-13') sandy CLAY - tan/brown, moist, stiff, low plasticity, poorly-graded with ~25-30% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	3	80	1.3	N/A			
	(13-16') clayey SAND - brown, moist, medium dense to dense, fine grained, moderately-graded with ~25% clay, N/O, N/S					2.1				
15	(16-19') CLAY, grey, moist, stiff, low plasticity, poorly-graded, N/O, N/S	CL	DP	4	95	2.2	N/A			
	(19-20') well-graded SAND - brown/red/tan, moist, very loose, fine to coarse grained, well-graded, N/O, N/S					0.9				
20	BoB @ 20'	SW								

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: 02/09/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-25	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1200/1230	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1210 & 17.5-20/1227	



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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	(0-3') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~20-25% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	1	85	1.2	N/A		Well not completed	
	(3-9') clayey SAND - brown, moist, loose to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					1.1				
5	@7-8' - sandy CLAY lens	SC	DP	2	90	2.1	N/A			
						1.9				
10	(9-13') sandy CLAY - tan/brown, moist, stiff, low plasticity, poorly-graded with ~25-30% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	3	100	0.8	N/A			
	(13-16') clayey SAND - brown, moist, medium dense to dense, fine grained, moderately-graded with ~25% clay, N/O, N/S					1.2				
15	(16-19') CLAY, grey, moist, stiff, low plasticity, poorly-graded, N/O, N/S	CL	DP	4	100	1.3	N/A			
	(19-20') well-graded SAND - brown/red/tan, moist, very loose, fine to coarse grained, well-graded, N/O, N/S					1.5				
20	BoB @ 20'	SW								

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: 02/09/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-25	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1230/1300	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1240 & 17.5-20/1256	



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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					
0	(0-3') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~20-25% fine grained sand, N/O, N/S, CaCO ₃	CL	DP	1	90	1.1	N/A		Well not completed
	(3-9') clayey SAND - brown, moist, loose to dense, fine grained, poorly-graded with ~20% clay, N/O, N/S					1.3			
5	@7-8' - sandy CLAY lens	SC	DP	2	80	2.1	N/A		
	(9-13') sandy CLAY - tan/brown, moist, stiff, low plasticity, poorly-graded with ~25-30% fine grained sand, N/O, N/S, CaCO ₃					1.6			
10	(13-15') clayey SAND - brown, moist, medium dense to dense, fine grained, moderately-graded with ~25% clay, N/O, N/S	CL	DP	3	100	1.3	N/A		
	(15-20') well-graded SAND - brown/red/tan, moist, very loose, fine to coarse grained, well-graded, N/O, N/S	SC				1.5			
15		SW	DP	4	100	0.9	N/A		
						1.2			
20	BoB @ 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: 02/09/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-25	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1330/1355	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1337 & 17.5-20/1352	



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



ATTACHMENT B

Laboratory Analytical Reports



February 19, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable #14-25

Project Number - -

Attached are your analytical results for Noble - Shable #14-25 received by Origins Laboratory, Inc. February 09, 2024. This project is associated with Origins project number Y402267-01.

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: -
 Project: Noble - Shable #14-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@5-7.5'	Y402267-01	Soil	February 9, 2024 11:05	02/09/2024 16:09
Background-02@17.5-20'	Y402267-02	Soil	February 9, 2024 11:26	02/09/2024 16:09
Background-03@5-7.5'	Y402267-03	Soil	February 9, 2024 11:40	02/09/2024 16:09
Background-03@17.5-20'	Y402267-04	Soil	February 9, 2024 11:57	02/09/2024 16:09
Background-04@5-7.5'	Y402267-05	Soil	February 9, 2024 12:10	02/09/2024 16:09
Background-04@17.5-20'	Y402267-06	Soil	February 9, 2024 12:27	02/09/2024 16:09
Background-05@5-7.5'	Y402267-07	Soil	February 9, 2024 12:40	02/09/2024 16:09
Background-05@17.5-20'	Y402267-08	Soil	February 9, 2024 12:56	02/09/2024 16:09
Background-06@5-7.5'	Y402267-09	Soil	February 9, 2024 13:37	02/09/2024 16:09
Background-06@17.5-20'	Y402267-10	Soil	February 9, 2024 13:52	02/09/2024 16:09

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: -
 Project: Noble - Shable #14-25

www.originslaboratory.com

4402207


page () of ()

ORIGINS
 LABORATORY, INC

Client: Eagle Environmental Consulting
 Project Manager: Andrew Newberry
 Address: 8000 W 44th Ave
 Project Name: Shable #14-25
Wheat Ridge, Co 80033
 Project Number:
 Telephone Number: 303-433-2479
 Samples Collected By: EL
 Email Address: anewberry@eagle-environ.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Canister #	As, Pb, Cu, Fe, Mn, Ni, V	Other	
Background-02 @ 5'-7.5'	8/19/14	1105	2	X				X				X	PH, SAR =
Background-02 @ 17.5'-20'		1120										X	Saturated paste
Background-03 @ 5'-7.5'		1140											prep
Background-03 @ 17.5'-20'		1157											
Background-04 @ 5'-7.5'		1200											*NPL's needed
Background-04 @ 17.5'-20'		1227											
Background-05 @ 5'-7.5'		1240											
Background-05 @ 17.5'-20'		1250											
Background-06 @ 5'-7.5'		1337											
Background-06 @ 17.5'-20'		1352											
Relinquished By: <u>[Signature]</u>	Date: <u>8/19/14</u>	Time: <u>1009</u>		Received By: <u>[Signature]</u>	Date: <u>29/24</u>	Time: <u>1009</u>		Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard					

Temp Received: 3 Date Results Needed: Noble

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: -
 Project: Noble - Shable #14-25

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402207 Client: Eagle
 Client Project ID: Shable #14-25
 Checklist Completed by: TJH/EWS Shipped Via: HTD
 Date/time completed: 2/12/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 3 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/13/24

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: -
 Project: Noble - Shable #14-25

Background-02@5-7.5'
2/9/2024 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.22	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	2.99	0.823	"	"	"	ACC	"	"	
Sodium	16.4	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.18		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	9.34	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.58	0.0897	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	44.1	8.97	"	"	"	HJD	"	"	
Lead	8.84	0.897	"	"	"	HJD	"	"	
Selenium	0.118	0.0897	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-02@17.5-20'
2/9/2024 11:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.80	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	2.18	0.823	"	"	"	ACC	"	"	
Sodium	9.10	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	6.45	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	53.8	0.0878	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	206	8.78	"	"	"	HJD	"	"	
Lead	26.0	0.878	"	"	"	HJD	"	"	
Selenium	0.822	0.0878	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-03@5-7.5'
2/9/2024 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	6.08	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	4.57	0.823	"	"	"	ACC	"	"	
Sodium	12.7	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	7.97		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	5.51	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.11	0.0947	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	57.0	9.47	"	"	"	HJD	"	"	
Lead	6.23	0.947	"	"	"	HJD	"	"	
Selenium	0.233	0.0947	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-03@17.5-20'
2/9/2024 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.06	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	3.80	0.823	"	"	"	ACC	"	"	
Sodium	12.8	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.27		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	6.94	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	16.6	0.0896	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	110	8.96	"	"	"	HJD	"	"	
Lead	27.6	0.896	"	"	"	HJD	"	"	
Selenium	1.45	0.0896	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-04@5-7.5'
2/9/2024 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.47	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	1.30	0.823	"	"	"	ACC	"	"	
Sodium	8.92	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.29		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	7.58	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.30	0.0928	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	51.9	9.28	"	"	"	HJD	"	"	
Lead	6.89	0.928	"	"	"	HJD	"	"	
Selenium	0.157	0.0928	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-04@17.5-20'
2/9/2024 12:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.02	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	2.45	0.823	"	"	"	ACC	"	"	
Sodium	10.1	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	6.78	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	41.9	0.0937	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	432	9.37	"	"	"	HJD	"	"	
Lead	19.2	0.937	"	"	"	HJD	"	"	
Selenium	2.41	0.0937	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-05@5-7.5'
2/9/2024 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	22.6	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	16.2	0.823	"	"	"	ACC	"	"	
Sodium	21.8	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	7.95		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	4.95	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.46	0.0856	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	43.3	8.56	"	"	"	HJD	"	"	
Lead	6.08	0.856	"	"	"	HJD	"	"	
Selenium	0.187	0.0856	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

Background-05@17.5-20'
2/9/2024 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.72	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	3.80	0.823	"	"	"	ACC	"	"	
Sodium	11.1	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.31		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	5.70	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	15.4	0.0932	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	205	9.32	"	"	"	HJD	"	"	
Lead	12.8	0.932	"	"	"	HJD	"	"	
Selenium	10.0	0.0932	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-06@5-7.5'

2/9/2024 1:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y402267-09 (Soil)**

Metals by Saturated Paste by EPA 6010

Calcium	1.32	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	7.35	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.32		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	7.47	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.88	0.0951	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	42.9	9.51	"	"	"	HJD	"	"	
Lead	6.78	0.951	"	"	"	HJD	"	"	
Selenium	0.153	0.0951	"	"	"	HJD	"	"	

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: -
 Project: Noble - Shable #14-25

Background-06@17.5-20'

2/9/2024 1:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402267-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.82	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	5.93	0.823	"	"	"	ACC	"	"	
Sodium	17.0	0.435	"	"	"	ACC	"	"	

pH in Soil by 9045D

pH	8.34		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	7.33	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	10.4	0.0915	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	115	9.15	"	"	"	HJD	"	"	
Lead	9.76	0.915	"	"	"	HJD	"	"	
Selenium	3.24	0.0915	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B0942 - EPA 3050B										
Blank (B4B0942-BLK1) Prepared: 02/09/2024 Analyzed: 02/14/2024										
Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Lead	ND	0.100	"							
Selenium	ND	0.0100	"							
LCS (B4B0942-BS1) Prepared: 02/09/2024 Analyzed: 02/14/2024										
Arsenic	4.55	0.0100	mg/kg	5.00		91.0	80-120			
Barium	487	1.00	"	500		97.5	80-120			
Lead	5.10	0.100	"	5.00		102	80-120			
Selenium	4.49	0.0100	"	5.00		89.8	80-120			
Matrix Spike (B4B0942-MS1) Source: Y402263-01 Prepared: 02/09/2024 Analyzed: 02/14/2024										
Arsenic	7.45	0.0959	mg/kg	4.80	2.13	111	75-125			
Barium	512	9.59	"	480	39.9	98.5	75-125			
Lead	11.1	0.959	"	4.80	4.77	132	75-125			QM-07
Selenium	4.97	0.0959	"	4.80	0.0872	102	75-125			
Matrix Spike Dup (B4B0942-MSD1) Source: Y402263-01 Prepared: 02/09/2024 Analyzed: 02/14/2024										
Arsenic	7.09	0.0902	mg/kg	4.51	2.13	110	75-125	4.84	20	
Barium	543	9.02	"	451	39.9	112	75-125	5.82	20	
Lead	10.9	0.902	"	4.51	4.77	137	75-125	1.75	20	QM-07
Selenium	4.94	0.0902	"	4.51	0.0872	108	75-125	0.471	20	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1205 - Saturated Paste Metals

Blank (B4B1205-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

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 (B4B1205-DUP1)

Source: Y402245-06

Prepared: 02/12/2024 Analyzed: 02/13/2024

Calcium PPM	25.4	10.0	mg/L		28.0			9.48	50	
SAR	ND	0.0100	SAR		2.78				200	
Magnesium PPM	7.11	10.0	mg/L		7.85			9.89	50	
Sodium PPM	59.9	10.0	"		64.5			7.37	50	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

Saturated Paste - 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 B4B1215 - Saturated Paste pH/EC

Duplicate (B4B1215-DUP1)

Source: Y402245-06

Prepared: 02/12/2024 Analyzed: 02/13/2024

pH	8.27		pH Units		8.32			0.603	25	
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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: -
Project: Noble - Shable #14-25

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 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 22, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable #14-25

Project Number - -

Attached are your analytical results for Noble - Shable #14-25 received by Origins Laboratory, Inc. February 09, 2024. This project is associated with Origins project number Y402268-01.

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: -
Project: Noble - Shable #14-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y402268-01	Soil	February 9, 2024 9:30	02/09/2024 16:09
SB-01@17.5-20'	Y402268-02	Soil	February 9, 2024 9:47	02/09/2024 16:09
SB-02@5-7.5'	Y402268-03	Soil	February 9, 2024 10:37	02/09/2024 16:09
SB-03@5-7.5'	Y402268-04	Soil	February 9, 2024 10:25	02/09/2024 16:09
SB-04@5-7.5'	Y402268-05	Soil	February 9, 2024 9:58	02/09/2024 16:09
SB-05@5-7.5'	Y402268-06	Soil	February 9, 2024 10:15	02/09/2024 16:09

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: -
 Project: Noble - Shable #14-25

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402208 Client: Eagle
 Client Project ID: Shable #14-25
 Checklist Completed by: TST/CHS Shipped Via: tlp
 Date/time completed: 2/12/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 3 °C / _____ °C / _____ °C (Describe)
 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]

2/13/24
 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: -
 Project: Noble - Shable #14-25

SB-01@5-7.5'

2/9/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.304	0.101	mg/L	1	B4B1211	ACC	02/12/2024	02/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: o-Terphenyl	84.5 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-01@5-7.5'

2/9/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.05	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	4.57	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-01@5-7.5'

2/9/2024 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	100 %	60-130			B4B13 20		02/13/2024	02/14/2024	
Surrogate: Anthracene-d10	97.3 %	60-130			"		"	"	
Surrogate: Pyrene-d10	90.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.48		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	5.12	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.30	0.0961	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	41.5	9.61	"	"	"	HJD	"	"	
Lead	10.5	0.961	"	"	"	HJD	"	"	
Selenium	0.156	0.0961	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-01@17.5-20'
2/9/2024 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 85.3 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.6 % 70-130 " " "
 Surrogate: Toluene-d8 100 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	1.87	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	1.99	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-01@17.5-20'
2/9/2024 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-02 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	8.36	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.6 %	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: -
 Project: Noble - Shable #14-25

SB-01@17.5-20'

2/9/2024 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	97.4 %	60-130			B4B13 20		02/13/2024	02/14/2024	
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pH in Soil by 9045D

pH	8.38		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	6.01	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	46.5	0.0962	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	283	9.62	"	"	"	HJD	"	"	
Lead	25.9	0.962	"	"	"	HJD	"	"	
Selenium	1.28	0.0962	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-02@5-7.5'
2/9/2024 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 95.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.3 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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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: -
 Project: Noble - Shable #14-25

SB-02@5-7.5'
2/9/2024 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-03 (Soil)

Metals by Saturated Paste by EPA 6010

Magnesium	ND	0.823	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
Sodium	3.98	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 99.3 % 60-130 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-02@5-7.5'
2/9/2024 10:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-03 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	95.2 %	60-130			B4B13 20		02/13/2024	02/14/2024	
Surrogate: Pyrene-d10	90.8 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	104 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.61		pH Units	1	B4B1215	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	8.44	0.0100	SAR	1	B4B1205	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.19	0.0957	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	58.5	9.57	"	"	"	HJD	"	"	
Lead	6.03	0.957	"	"	"	HJD	"	"	
Selenium	0.142	0.0957	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-03@5-7.5'
2/9/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 94.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4 % 70-130 " " "
 Surrogate: Toluene-d8 96.9 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	4.84	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	2.71	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-03@5-7.5'
2/9/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-04 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	12.8	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	92.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.3 %	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: -
 Project: Noble - Shable #14-25

SB-03@5-7.5'
2/9/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	101 %	60-130			B4B13 20		02/13/2024	02/14/2024	
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pH in Soil by 9045D

pH	8.10		pH Units	1	B4B1216	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	6.61	0.0100	SAR	1	B4B1206	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.07	0.0976	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	55.0	9.76	"	"	"	HJD	"	"	
Lead	7.19	0.976	"	"	"	HJD	"	"	
Selenium	0.165	0.0976	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-04@5-7.5'

2/9/2024 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 88.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.7 % 70-130 " " "
 Surrogate: Toluene-d8 98.0 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	2.16	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	1.57	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-04@5-7.5'

2/9/2024 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-05 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	11.1	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	91.8 %	60-130	"	"	"

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-04@5-7.5'

2/9/2024 9:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	105 %	60-130			B4B13 20		02/13/2024	02/14/2024	
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pH in Soil by 9045D

pH	8.28		pH Units	1	B4B1216	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	8.10	0.0100	SAR	1	B4B1206	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.78	0.0959	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	57.8	9.59	"	"	"	HJD	"	"	
Lead	6.78	0.959	"	"	"	HJD	"	"	
Selenium	0.150	0.0959	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-05@5-7.5'
2/9/2024 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B1433	ADM	02/14/2024	02/20/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: *o*-Terphenyl 83.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B1117	ZZZ	02/11/2024	02/14/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	1.72	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	0.890	0.823	"	"	"	ACC	"	"

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-05@5-7.5'
2/9/2024 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-06 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	9.02	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B1320	Windo	02/13/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	99.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	89.9 %	60-130	"	"	"

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

SB-05@5-7.5'
2/9/2024 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402268-06 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	103 %	60-130			B4B13 20		02/13/2024	02/14/2024	
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pH in Soil by 9045D

pH	8.26		pH Units	1	B4B1216	EAL	02/12/2024	02/13/2024	
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SAR by 20B Saturated Paste

SAR	7.89	0.0100	SAR	1	B4B1206	ACC	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.02	0.0908	mg/kg	10	B4B0942	HJD	02/12/2024	02/14/2024	
Barium	57.6	9.08	"	"	"	HJD	"	"	
Lead	8.24	0.908	"	"	"	HJD	"	"	
Selenium	0.169	0.0908	"	"	"	HJD	"	"	

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Andrew Newberry
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 Project: Noble - Shable #14-25

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 B4B1117 - EPA 5030 (soil)

Blank (B4B1117-BLK1)

Prepared: 02/11/2024 Analyzed: 02/14/2024

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	0.11		"	0.125	88.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.6		70-130			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1117 - EPA 5030 (soil)

LCS (B4B1117-BS1)

Prepared: 02/11/2024 Analyzed: 02/14/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.0915	0.00380	"	0.100		91.5	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0947	0.00200	"	0.100		94.7	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1117 - EPA 5030 (soil)

Matrix Spike (B4B1117-MS1)	Source: Y402268-01			Prepared: 02/11/2024 Analyzed: 02/14/2024						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
Ethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.0897	0.00380	"	0.100	ND	89.7	70-130			
Toluene	0.100	0.00200	"	0.100	ND	100	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.224	0.00400	"	0.200	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1117 - EPA 5030 (soil)

Matrix Spike Dup (B4B1117-MSD1)	Source: Y402268-01			Prepared: 02/11/2024 Analyzed: 02/14/2024						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	2.59	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	0.244	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	2.30	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.678	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	11.4	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	4.82	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	0.622	20	
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130	0.601	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project: Noble - Shable #14-25

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 B4B1433 - EPA 3550B										
Blank (B4B1433-BLK1)										
					Prepared: 02/14/2024 Analyzed: 02/20/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.5	50-150			

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 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1433 - EPA 3550B

LCS (B4B1433-BS1)

Prepared: 02/14/2024 Analyzed: 02/20/2024

Diesel (C10-C28)	930	50.0	mg/kg	1000		93.0	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.7	50-150			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1433 - EPA 3550B

Matrix Spike (B4B1433-MS1)	Source: Y402232-01			Prepared: 02/14/2024 Analyzed: 02/20/2024						
Diesel (C10-C28)	955	50.0	mg/kg	1000	ND	95.5	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.7	50-150			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1433 - EPA 3550B										
Matrix Spike Dup (B4B1433-MSD1)		Source: Y402232-01			Prepared: 02/14/2024 Analyzed: 02/20/2024					
Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130	0.808	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	1.92	35	
Surrogate: o-Terphenyl	42		"	49.8		85.3	50-150			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B0942 - EPA 3050B

Blank (B4B0942-BLK1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

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 (B4B0942-BS1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic	4.55	0.0100	mg/kg	5.00		91.0	80-120			
Barium	487	1.00	"	500		97.5	80-120			
Cadmium	4.95	0.0100	"	5.00		99.0	80-120			
Copper	51.7	1.00	"	50.0		103	80-120			
Lead	5.10	0.100	"	5.00		102	80-120			
Nickel	5.02	0.100	"	5.00		100	80-120			
Selenium	4.49	0.0100	"	5.00		89.8	80-120			
Silver	5.08	0.0100	"	5.00		102	80-120			
Zinc	42.8	1.00	"	50.0		85.5	80-120			

Matrix Spike (B4B0942-MS1)

Source: Y402263-01

Prepared: 02/09/2024 Analyzed: 02/14/2024

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 Project: Noble - Shable #14-25

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 B4B0942 - EPA 3050B

Matrix Spike (B4B0942-MS1)		Source: Y402263-01			Prepared: 02/09/2024 Analyzed: 02/14/2024					
Arsenic	7.45	0.0959	mg/kg	4.80	2.13	111	75-125			
Barium	512	9.59	"	480	39.9	98.5	75-125			
Cadmium	4.95	0.0959	"	4.80	0.0725	102	75-125			
Copper	59.5	9.59	"	48.0	6.05	111	75-125			
Lead	11.1	0.959	"	4.80	4.77	132	75-125			QM-07
Nickel	10.6	0.959	"	4.80	5.75	101	75-125			
Selenium	4.97	0.0959	"	4.80	0.0872	102	75-125			
Silver	4.83	0.0959	"	4.80	0.0449	99.7	75-125			
Zinc	65.4	9.59	"	48.0	18.4	98.0	75-125			

Matrix Spike Dup (B4B0942-MSD1)		Source: Y402263-01			Prepared: 02/09/2024 Analyzed: 02/14/2024					
Arsenic	7.09	0.0902	mg/kg	4.51	2.13	110	75-125	4.84	20	
Barium	543	9.02	"	451	39.9	112	75-125	5.82	20	
Cadmium	5.02	0.0902	"	4.51	0.0725	110	75-125	1.34	20	
Copper	59.6	9.02	"	45.1	6.05	119	75-125	0.0842	20	
Lead	10.9	0.902	"	4.51	4.77	137	75-125	1.75	20	QM-07
Nickel	11.2	0.902	"	4.51	5.75	121	75-125	5.41	20	
Selenium	4.94	0.0902	"	4.51	0.0872	108	75-125	0.471	20	
Silver	4.90	0.0902	"	4.51	0.0449	108	75-125	1.57	20	
Zinc	68.7	9.02	"	45.1	18.4	111	75-125	4.87	20	

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1320 - EPA 3580

Blank (B4B1320-BLK1)

Prepared: 02/13/2024 Analyzed: 02/14/2024

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	100	60-130
Surrogate: Anthracene-d10	190		"	200	94.2	60-130
Surrogate: Pyrene-d10	190		"	200	95.5	60-130
Surrogate: Benzo (a) pyrene-d12	210		"	200	104	60-130

LCS (B4B1320-BS1)

Prepared: 02/13/2024 Analyzed: 02/14/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	94.4	70-130
2-Methylnaphthalene	0.187	0.002	"	0.200	93.3	70-130
Acenaphthene	0.188	0.020	"	0.200	94.0	70-130
Anthracene	0.182	0.020	"	0.200	91.1	70-130

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1320 - EPA 3580

LCS (B4B1320-BS1)

Prepared: 02/13/2024 Analyzed: 02/14/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.6	70-130			
Benzo (a) pyrene	0.193	0.020	"	0.200		96.6	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.9	70-130			
Benzo (k) fluoranthene	0.177	0.020	"	0.200		88.6	70-130			
Chrysene	0.195	0.020	"	0.200		97.7	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.4	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.9	70-130			
Fluorene	0.189	0.020	"	0.200		94.6	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.5	70-130			
Naphthalene	0.193	0.002	"	0.200		96.4	70-130			
Phenanthrene	0.178	0.020	"	0.200		88.9	70-130			
Pyrene	0.173	0.020	"	0.200		86.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		95.6	60-130			
Surrogate: Pyrene-d10	190		"	200		94.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike (B4B1320-MS1)

Source: Y402237-01

Prepared: 02/13/2024 Analyzed: 02/14/2024

1-Methylnaphthalene	0.235	0.002	mg/kg	0.200	ND	117	70-130			
2-Methylnaphthalene	0.232	0.002	"	0.200	ND	116	70-130			
Acenaphthene	0.232	0.020	"	0.200	ND	116	70-130			
Anthracene	0.228	0.020	"	0.200	ND	114	70-130			
Benzo (a) anthracene	0.239	0.005	"	0.200	ND	120	70-130			
Benzo (a) pyrene	0.242	0.020	"	0.200	ND	121	70-130			
Benzo (b) fluoranthene	0.229	0.020	"	0.200	ND	115	70-130			
Benzo (g,h,i) perylene	0.240	0.020	"	0.200	ND	120	70-130			

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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1320 - EPA 3580

Matrix Spike (B4B1320-MS1)		Source: Y402237-01			Prepared: 02/13/2024 Analyzed: 02/14/2024					
Benzo (k) fluoranthene	0.222	0.020	mg/kg	0.200	ND	111	70-130			
Chrysene	0.238	0.020	"	0.200	ND	119	70-130			
Dibenz (a,h) anthracene	0.245	0.020	"	0.200	ND	123	70-130			
Fluoranthene	0.233	0.020	"	0.200	ND	117	70-130			
Fluorene	0.234	0.020	"	0.200	ND	117	70-130			
Indeno (1,2,3-cd) pyrene	0.247	0.020	"	0.200	ND	123	70-130			
Naphthalene	0.240	0.002	"	0.200	ND	120	70-130			
Phenanthrene	0.222	0.020	"	0.200	ND	111	70-130			
Pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	190		"	200		92.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4B1320-MSD1)		Source: Y402237-01			Prepared: 02/13/2024 Analyzed: 02/14/2024					
1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	ND	92.2	70-130	24.0	20	QR-02
2-Methylnaphthalene	0.182	0.002	"	0.200	ND	91.1	70-130	24.1	20	QR-02
Acenaphthene	0.183	0.020	"	0.200	ND	91.5	70-130	23.8	20	QR-02
Anthracene	0.175	0.020	"	0.200	ND	87.3	70-130	26.7	20	QR-02
Benzo (a) anthracene	0.187	0.005	"	0.200	ND	93.4	70-130	24.6	20	QR-02
Benzo (a) pyrene	0.181	0.020	"	0.200	ND	90.6	70-130	28.9	20	QR-02
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.5	70-130	24.6	20	QR-02
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.1	70-130	23.0	20	QR-02
Benzo (k) fluoranthene	0.187	0.020	"	0.200	ND	93.6	70-130	17.2	20	
Chrysene	0.193	0.020	"	0.200	ND	96.3	70-130	21.0	20	QR-02
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.4	70-130	23.9	20	QR-02
Fluoranthene	0.177	0.020	"	0.200	ND	88.5	70-130	27.3	20	QR-02

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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 B4B1320 - EPA 3580

Matrix Spike Dup (B4B1320-MSD1)	Source: Y402237-01			Prepared: 02/13/2024 Analyzed: 02/14/2024						
Fluorene	0.184	0.020	mg/kg	0.200	ND	92.1	70-130	24.0	20	QR-02
Indeno (1,2,3-cd) pyrene	0.199	0.020	"	0.200	ND	99.4	70-130	21.6	20	QR-02
Naphthalene	0.188	0.002	"	0.200	ND	93.9	70-130	24.3	20	QR-02
Phenanthrene	0.173	0.020	"	0.200	ND	86.5	70-130	25.0	20	QR-02
Pyrene	0.175	0.020	"	0.200	ND	87.4	70-130	20.3	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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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 B4B1205 - Saturated Paste Metals

Blank (B4B1205-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

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 (B4B1205-DUP1)

Source: Y402245-06

Prepared: 02/12/2024 Analyzed: 02/13/2024

Calcium PPM	25.4	10.0	mg/L		28.0			9.48	50	
SAR	ND	0.0100	SAR		2.78				200	
Magnesium PPM	7.11	10.0	mg/L		7.85			9.89	50	
Sodium PPM	59.9	10.0	"		64.5			7.37	50	

Batch B4B1206 - Saturated Paste Metals

Blank (B4B1206-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

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

Duplicate (B4B1206-DUP1)

Source: Y402268-04

Prepared: 02/12/2024 Analyzed: 02/13/2024

SAR	ND	0.0100	SAR		6.61				200	
Calcium PPM	119	10.0	mg/L		96.9			20.1	50	
Magnesium PPM	37.1	10.0	"		33.0			11.8	50	
Sodium PPM	283	10.0	"		295			4.04	50	

Batch B4B1211 - DTPA Sorbitol Preparation

Blank (B4B1211-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-25

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 B4B1211 - DTPA Sorbitol Preparation										
Blank (B4B1211-BLK1)					Prepared: 02/12/2024 Analyzed: 02/13/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4B1211-DUP1)		Source: Y402268-01			Prepared: 02/12/2024 Analyzed: 02/13/2024					
Boron	0.331	0.0999	mg/L		0.304			8.62	50	

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 Project Number: -
 Project: Noble - Shable #14-25

**Saturated Paste - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1215 - Saturated Paste pH/EC										
Duplicate (B4B1215-DUP1)		Source: Y402245-06			Prepared: 02/12/2024 Analyzed: 02/13/2024					
pH	8.27		pH Units		8.32			0.603	25	
Batch B4B1216 - Saturated Paste pH/EC										
Duplicate (B4B1216-DUP1)		Source: Y402268-04			Prepared: 02/12/2024 Analyzed: 02/13/2024					
pH	8.07		pH Units		8.10			0.371	25	

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Andrew Newberry
Project Number: -
Project: Noble - Shable #14-25

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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