



## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

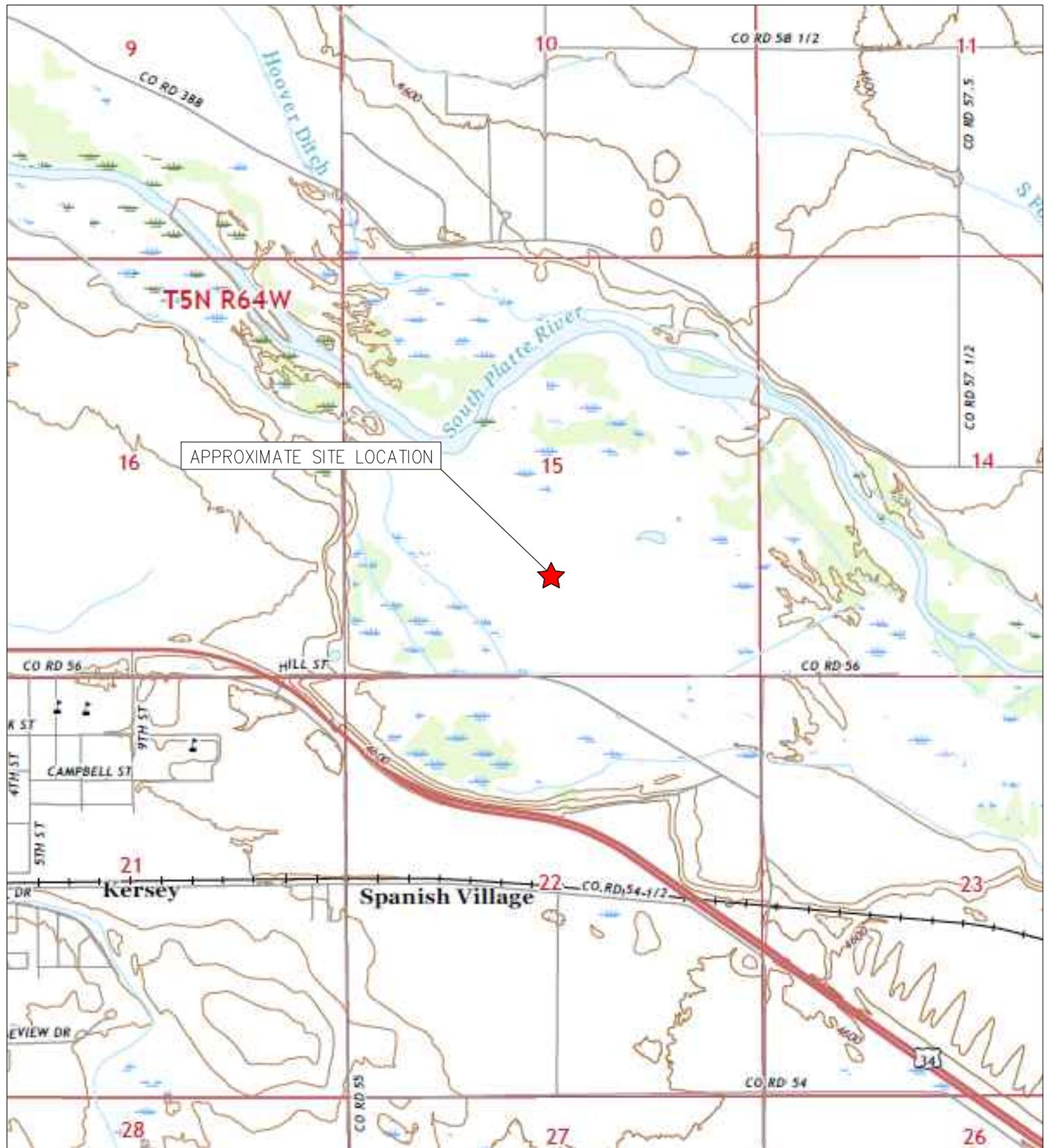
**Figure 3: Monitoring Well Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

**Figure 5: Monitoring Well Metals in Soil Map**

**Figure 6: Groundwater Analytical Map (05/02/24)**

**Figure 7: Groundwater Elevation Map (05/02/24)**



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP  
 LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
 HISTORICAL RELEASE  
 40.395146 / -104.536147  
 SE¼ SW¼ SEC.15 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 447668  
 REMEDIATION # 23570

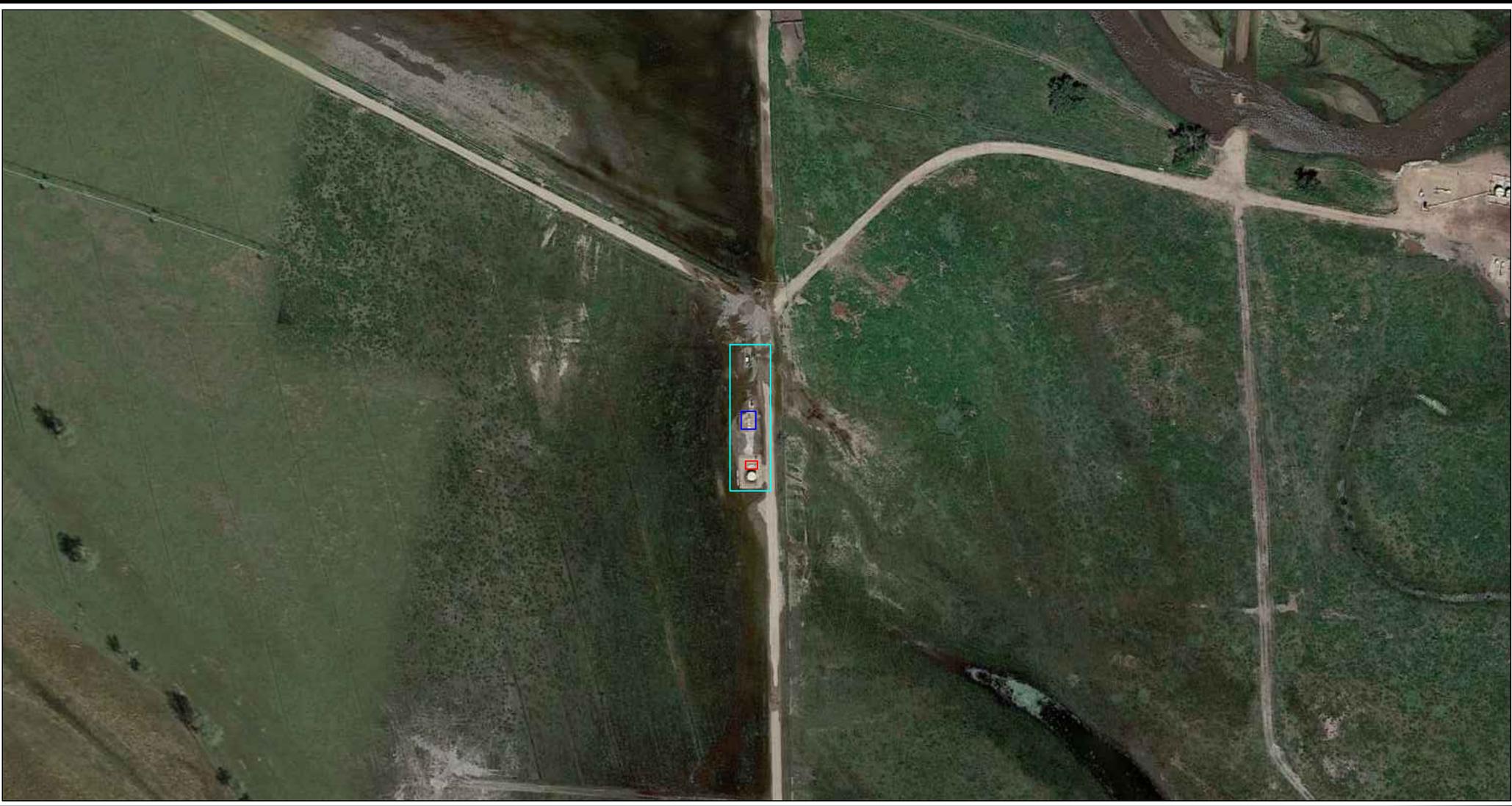


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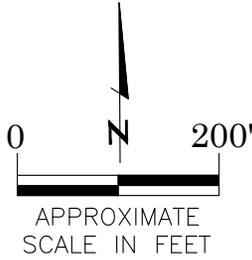
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 KERSEY, CO QUADRANGLE 2022

FIGURE NO. 1



**LEGEND**

- FORMER LOUSTELET T5N-R64W-S15 L01 TANK BATTERY (DECOMMISSIONED)
- SEPARATOR CONTAINMENT AREA (DECOMMISSIONED)
- WATER VAULT LOCATION (REMOVED)



**AERIAL SITE LOCATION MAP**  
 LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
 HISTORICAL RELEASE  
 40.395146 / -104.536147  
 SE¼ SW¼ SEC.15 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 447668  
 REMEDIATION # 23570

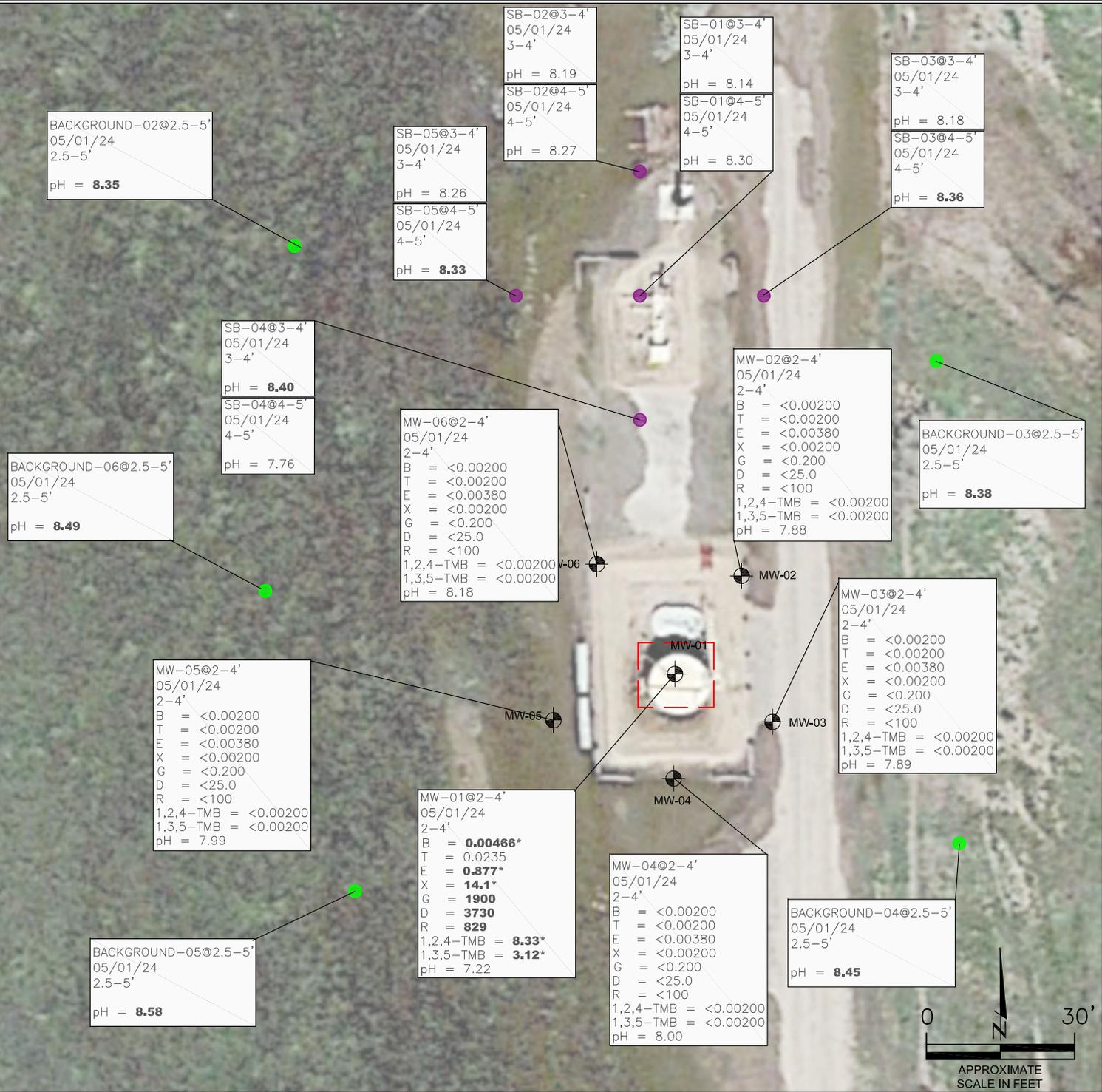
FIGURE NO.  
2

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**LEGEND**

- WATER VAULT ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS
- BACKGROUND LOCATIONS
- SOIL BORING LOCATIONS

**PARAMETERS**

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)
R	= TPH-RRO (mg/kg)
1,2,4-TMB	= 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB	= 1,3,5 TRIMETHYLBENZENE (mg/kg)
pH	= pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

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

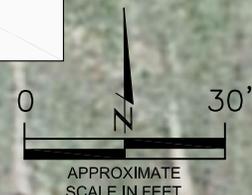
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

MONITORING WELL SOIL ANALYTICAL MAP  
 LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
 HISTORICAL RELEASE  
 40.395146 / -104.536147  
 SE¼ SW¼ SEC.15 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 447668  
 REMEDIATION # 23570

FIGURE NO.  
3

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**LEGEND**

- WATER VAULT ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS

**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.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

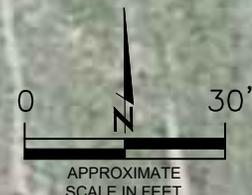
**POLYCYCLIC AROMATIC HYDROCARBONS MAP**  
 LOUSLETEL T5N-R64W-S15 L01 TANK BATTERY  
 HISTORICAL RELEASE  
 40.395146 / -104.536147  
 SE¼ SW¼ SEC.15 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 447668  
 REMEDIATION # 23570

FIGURE NO.  
4

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MW-05@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = <0.0020  
 2-Methylnaphthalene = <0.0020  
 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

MW-06@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = <0.0020  
 2-Methylnaphthalene = <0.0020  
 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

MW-02@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = <0.0020  
 2-Methylnaphthalene = <0.0020  
 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

MW-03@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = <0.0020  
 2-Methylnaphthalene = <0.0020  
 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

MW-01@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = **1.31\***  
 2-Methylnaphthalene = **1.63\***  
 Acenaphthene = 0.506  
 Anthracene = 0.057  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = 0.047  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = **0.683\***  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = 0.042

MW-04@2-4'  
 05/01/24  
 2-4'  
 1-Methylnaphthalene = <0.0020  
 2-Methylnaphthalene = <0.0020  
 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



MW-06

MW-02

MW-05

MW-04

MW-03

MW-01

**LEGEND**

- WATER VAULT ASSESSMENT BOUNDARIES
- MONITORING WELL LOCATIONS
- BACKGROUND SAMPLE LOCATIONS

**PARAMETERS**

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

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) = NOT SAMPLED

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

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

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

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

MONITORING WELL METALS IN SOIL MAP  
 LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
 HISTORICAL RELEASE  
 40.395146 / -104.536147  
 SE¼ SW¼ SEC.15 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 LOCATION ID 447668  
 REMEDIATION # 23570

FIGURE NO.  
5

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BACKGROUND-02@2.5-5'  
 05/01/24  
 2.5-5'  
 Arsenic = 1.62  
 Barium = 56.0  
 Cadmium = <0.0948  
 Chromium (VI) = <0.120\*\*  
 Copper = <9.48  
 Lead = 4.56  
 Nickel = 6.36  
 Selenium = <0.246  
 Silver = <0.0948  
 Zinc = <35.1

MW-06@2-4'  
 05/01/24  
 2-4'  
 Arsenic = **3.71**  
 Barium = 88.1  
 Cadmium = 0.213  
 Chromium (VI) = <0.165\*\*  
 Copper = 11.7  
 Lead = 10.4  
 Nickel = 7.68  
 Selenium = 0.332  
 Silver = <0.0857  
 Zinc = 45.2

MW-02@2-4'  
 05/01/24  
 2-4'  
 Arsenic = **4.35**  
 Barium = **146\***  
 Cadmium = 0.151  
 Chromium (VI) = <0.185\*\*  
 Copper = 13.6  
 Lead = 10.1  
 Nickel = 12.5  
 Selenium = <0.242  
 Silver = <0.0932  
 Zinc = 52.7

BACKGROUND-03@2.5-5'  
 05/01/24  
 2.5-5'  
 Arsenic = 1.05  
 Barium = 34.7  
 Cadmium = <0.0903  
 Chromium (VI) = <0.156\*\*  
 Copper = <9.03  
 Lead = 3.18  
 Nickel = 3.49  
 Selenium = <0.235  
 Silver = <0.0903  
 Zinc = 33.4

MW-03@2-4'  
 05/01/24  
 2-4'  
 Arsenic = **3.30**  
 Barium = 380\*  
 Cadmium = <0.0866  
 Chromium (VI) = <0.177\*\*  
 Copper = 16.1  
 Lead = 12.3  
 Nickel = 16.1  
 Selenium = 0.312  
 Silver = <0.0866  
 Zinc = 66.1

BACKGROUND-04@2.5-5'  
 05/01/24  
 2.5-5'  
 Arsenic = 1.37  
 Barium = 109  
 Cadmium = 0.146  
 Chromium (VI) = <0.157\*\*  
 Copper = <8.45  
 Lead = 6.19  
 Nickel = 6.98  
 Selenium = <0.220  
 Silver = <0.0845  
 Zinc = 32.7

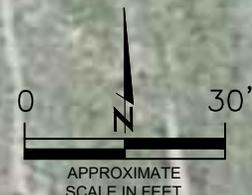
BACKGROUND-06@2.5-5'  
 05/01/24  
 2.5-5'  
 Arsenic = 1.41  
 Barium = 76.3  
 Cadmium = <0.0876  
 Chromium (VI) = <0.163\*\*  
 Copper = <8.76  
 Lead = 5.54  
 Nickel = 6.33  
 Selenium = <0.228  
 Silver = <0.0876  
 Zinc = <32.4

MW-05@2-4'  
 05/01/24  
 2-4'  
 Arsenic = **3.00**  
 Barium = **239\***  
 Cadmium = 0.125  
 Chromium (VI) = <0.186\*\*  
 Copper = 14.9  
 Lead = 10.6  
 Nickel = 13.0  
 Selenium = 0.362  
 Silver = <0.0836  
 Zinc = 56.1

BACKGROUND-05@2.5-5'  
 05/01/24  
 2.5-5'  
 Arsenic = 2.07  
 Barium = 97.9  
 Cadmium = <0.0886  
 Chromium (VI) = <0.192\*\*  
 Copper = <8.86  
 Lead = 6.95  
 Nickel = 8.89  
 Selenium = <0.230  
 Silver = <0.0886  
 Zinc = 35.9

MW-01@2-4'  
 05/01/24  
 2-4'  
 Arsenic = 1.04  
 Barium = 21.4  
 Cadmium = <0.0890  
 Chromium (VI) = <0.127\*\*  
 Copper = 8.90  
 Lead = 2.22  
 Nickel = 2.09  
 Selenium = <0.231  
 Silver = <0.0890  
 Zinc = <32.9

MW-04@2-4'  
 05/01/24  
 2-4'  
 Arsenic = **2.04**  
 Barium = **107\***  
 Cadmium = 0.092  
 Chromium (VI) = <0.135\*\*  
 Copper = <8.54  
 Lead = 7.11  
 Nickel = 8.74  
 Selenium = <0.222  
 Silver = <0.0854  
 Zinc = 42.7



**LEGEND**

--- WATER VAULT ASSESSMENT BOUNDARIES

⊙ MONITORING WELL LOCATIONS

PARAMETERS

GROUNDWATER SAMPLE LOCATION  
DATE  
B = BENZENE (µg/L)  
T = TOLUENE (µg/L)  
E = ETHYLBENZENE (µg/L)  
X = TOTAL XYLENES (µg/L)  
N = NAPHTHALENE (µg/L)  
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)  
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)  
C = CHLORIDE (mg/L)  
S = SULFATE (mg/L)  
TDS = TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER

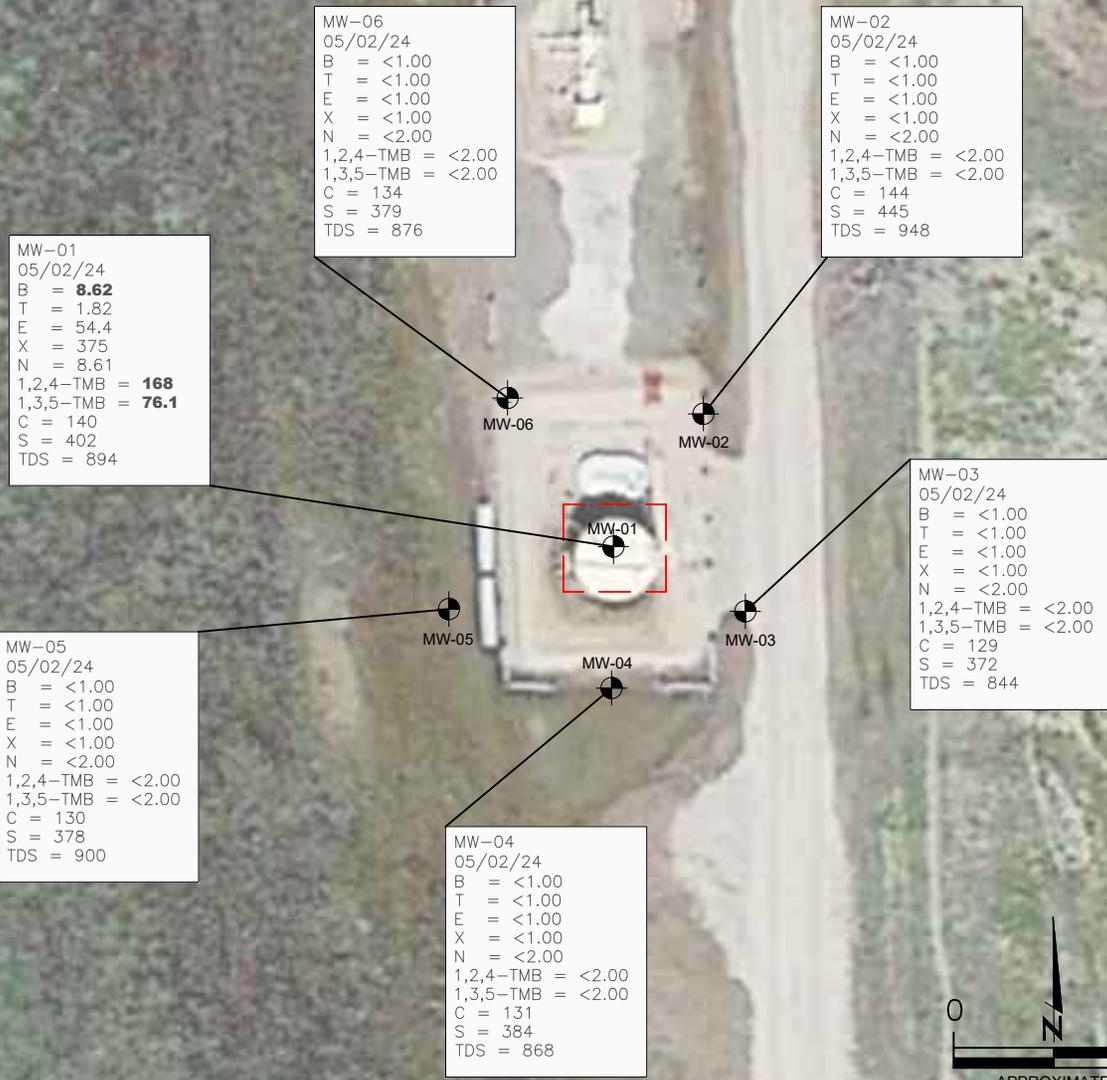
NOTES:  
INORGANIC GROUNDWATER SAMPLES WERE COLLECTED 05/02/24.

THE GROUNDWATER INORGANIC PARAMETERS IN MONITORING WELL MW-03 WAS USED IN THE DETERMINATION OF "LOCAL BACKGROUND" LEVELS AT THE SITE.

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE THE LABORATORY REPORTING LIMIT

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION



GROUNDWATER ANALYTICAL MAP  
(05/02/24)

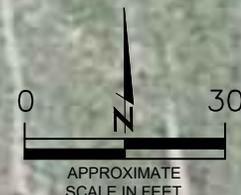
LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
HISTORICAL RELEASE  
40.395146 / -104.536147  
SE¼ SW¼ SEC.15 T5N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 23570

FIGURE NO.  
6

DRAWN BY:  
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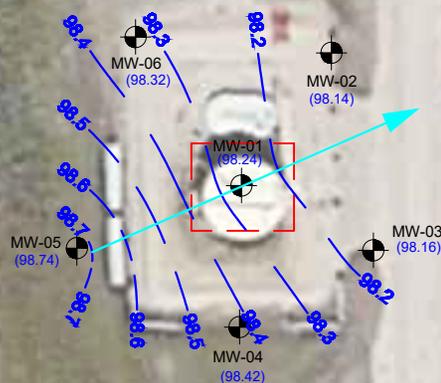
LEGEND

- WATER VAULT ASSESSMENT BOUNDARIES
- ⊗ MONITORING WELL LOCATIONS
- (89.25) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 5/2/24.

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2016



GROUNDWATER CONTOUR MAP  
(05/02/24)

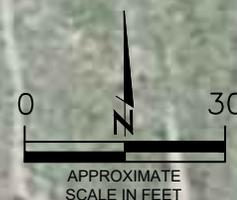
LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
HISTORICAL RELEASE  
40.395146 / -104.536147  
SE¼ SW¼ SEC.15 T5N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDATION # 23570

FIGURE NO.  
7

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## **TABLES**

**Table 1: Field Data Summary Table**

**Table 2: Summary of Volatile Organic Soil Chemistry Data**

**Table 3: Summary of PAHs Soil Chemistry Data**

**Table 4: Summary of Soil Suitability for Reclamation**

**Table 5: Summary of Metals in Soil Chemistry Data**

**Table 6: Summary of Groundwater Elevation Data and Organic Chemistry Data**

**Table 7: Summary of Inorganic Groundwater Chemistry Data**

**TABLE 1  
FIELD DATA SUMMARY TABLE  
LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
HISTORICAL RELEASE  
40.395041 / -104.536099  
SE¼ SW¼ S15 T5N R64W  
WELD COUNTY, COLORADO  
LOCATION ID 447669  
REM # 23570**

Sample ID	Sample Date	Depth	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
MW-01 @ 2-4'	5/1/2024	2-4'	40.395030	-104.536162	Y	1,573
MW-02 @ 2-4'	5/1/2024	2-4'	40.395098	-104.536113	Y	3.2
MW-03 @ 2-4'	5/1/2024	2-4'	40.395014	-104.536068	Y	0.8
MW-04 @ 2-4'	5/1/2024	2-4'	40.394960	-104.536150	Y	3.1
MW-05 @ 2-4'	5/1/2024	2-4'	40.395003	-104.536238	Y	2.9
MW-06 @ 2-4'	5/1/2024	2-4'	40.395094	-104.536213	Y	3.4
Background-02 @ 2.5-5'	5/1/2024	2.5-5'	40.395262	-104.536406	Y	1.2
Background-03 @ 2.5-5'	5/1/2024	2.5-5'	40.395185	-104.536197	Y	0.9
Background-04 @ 2.5-5'	5/1/2024	2.5-5'	40.395185	-104.536197	Y	0.7
Background-05 @ 2.5-5'	5/1/2024	2.5-5'	40.395023	-104.536378	Y	0.6
Background-06 @ 2.5-5'	5/1/2024	2.5-5'	40.395255	-104.536281	Y	0.5
SB-01 @ 3-4'	5/1/2024	3-4'	40.395245	-104.536191	Y	2.8
SB-01 @ 4-5'	5/1/2024	4-5'	40.395245	-104.536191	Y	2.1
SB-02 @ 3-4'	5/1/2024	3-4'	40.395326	-104.536189	Y	0.5
SB-02 @ 4-5'	5/1/2024	4-5'	40.395326	-104.536189	Y	0.0
SB-03 @ 3-4'	5/1/2024	3-4'	40.395243	-104.536082	Y	1.8
SB-03 @ 4-5'	5/1/2024	4-5'	40.395243	-104.536082	Y	0.1
SB-04 @ 3-4'	5/1/2024	3-4'	40.395162	-104.536181	Y	3.2
SB-04 @ 4-5'	5/1/2024	4-5'	40.395162	-104.536181	Y	2.8
SB-05 @ 3-4'	5/1/2024	3-4'	40.395241	-104.536297	Y	2.4
SB-05 @ 4-5'	5/1/2024	4-5'	40.395241	-104.536297	Y	0.4

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

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



**TABLE 2**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

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**		
MW-01 @ 2-4'	5/1/2024	2-4'	0.00466	0.0235	0.887	14.1	8.33	3.12	0.0257	<b>6,459</b>	<b>1900</b>	<b>3730</b>	<b>829</b>
MW-02 @ 2-4'	5/1/2024	2-4'	<0.00200	<0.00200	<0.00380	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
MW-03 @ 2-4'	5/1/2024	2-4'	<0.00200	<0.00200	<0.00380	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
MW-04 @ 2-4'	5/1/2024	2-4'	<0.00200	<0.00200	<0.00380	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
MW-05 @ 2-4'	5/1/2024	2-4'	<0.00200	<0.00200	<0.00380	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
MW-06 @ 2-4'	5/1/2024	2-4'	<0.00200	<0.00200	<0.00380	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100

1. **Bold** values exceed the ECMC Table 915-1 limit(s)

2. Pink & 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

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



**TABLE 3**  
**SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

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
MW-01 @ 2-4'	5/1/2024	2-4'	0.506	0.057	<0.005	<0.020	<0.020	<0.020	0.047	<0.020	<0.020	0.683	<0.020	0.042	1.31	1.63
MW-02 @ 2-4'	5/1/2024	2-4'	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002*
MW-03 @ 2-4'	5/1/2024	2-4'	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002*
MW-04 @ 2-4'	5/1/2024	2-4'	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002*
MW-05 @ 2-4'	5/1/2024	2-4'	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002*
MW-06 @ 2-4'	5/1/2024	2-4'	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002*

1. **Bold** values exceed the ECMC Table 915-1 limit(s)

2. Pink & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. \* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

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
MW-01 @ 2-4'	5/1/2024	2-4'	7.22	NA	NA	NA
MW-02 @ 2-4'	5/1/2024	2-4'	7.88	NA	NA	NA
MW-03 @ 2-4'	5/1/2024	2-4'	7.89	NA	NA	NA
MW-04 @ 2-4'	5/1/2024	2-4'	8.00	NA	NA	NA
MW-05 @ 2-4'	5/1/2024	2-4'	7.99	NA	NA	NA
MW-06 @ 2-4'	5/1/2024	2-4'	8.18	NA	NA	NA
Background-02 @ 2.5-5'	5/1/2024	2.5-5'	8.35	NA	NA	NA
Background-03 @ 2.5-5'	5/1/2024	2.5-5'	8.38	NA	NA	NA
Background-04 @ 2.5-5'	5/1/2024	2.5-5'	8.45	NA	NA	NA
Background-05 @ 2.5-5'	5/1/2024	2.5-5'	8.58	NA	NA	NA
Background-06 @ 2.5-5'	5/1/2024	2.5-5'	8.49	NA	NA	NA
SB-01 @ 3-4'	5/1/2024	3-4'	8.14	NA	NA	NA
SB-01 @ 4-5'	5/1/2024	4-5'	8.30	NA	NA	NA
SB-02 @ 3-4'	5/1/2024	3-4'	8.19	NA	NA	NA
SB-02 @ 4-5'	5/1/2024	4-5'	8.27	NA	NA	NA
SB-03 @ 3-4'	5/1/2024	3-4'	8.18	NA	NA	NA
SB-03 @ 4-5'	5/1/2024	4-5'	8.36	NA	NA	NA
SB-04 @ 3-4'	5/1/2024	3-4'	8.40	NA	NA	NA
SB-04 @ 4-5'	5/1/2024	4-5'	7.76	NA	NA	NA
SB-05 @ 3-4'	5/1/2024	3-4'	8.26	NA	NA	NA
SB-05 @ 4-5'	5/1/2024	4-5'	8.33	NA	NA	NA
Maximum Background Concentration			8.58			
Mean Background Concentration			8.45			

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s)

2. Brown highlighted soil analytical values indicate a regulatory exceedance, but below background concentration.

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

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
MW-01 @ 2-4'	5/1/2024	2-4'	1.04	21.4	<0.0890	<0.127*	<8.90	2.22	2.09	<0.231	<0.0890	<32.9
MW-02 @ 2-4'	5/1/2024	2-4'	<b>4.35</b>	146	0.151	<0.185*	13.6	10.1	12.5	<0.242	<0.0932	52.7
MW-03 @ 2-4'	5/1/2024	2-4'	<b>3.30</b>	380	<0.0866	<0.177*	16.1	12.3	16.1	0.312	<0.0866	66.1
MW-04 @ 2-4'	5/1/2024	2-4'	<b>2.04</b>	107	0.092	<0.135*	<8.54	7.11	8.74	<0.222	<0.0854	42.7
MW-05 @ 2-4'	5/1/2024	2-4'	<b>3.00</b>	239	0.125	<0.186*	14.9	10.6	13.0	0.362	<0.0836	56.1
MW-06 @ 2-4'	5/1/2024	2-4'	<b>3.71</b>	88.1	0.213	<0.165*	11.7	10.4	7.68	0.332	<0.0857	45.2
Background-02 @ 2.5-5'	5/1/2024	2.5-5'	1.62	56.0	<0.0948	<0.120*	<9.48	4.56	6.36	<0.246	<0.0948	<35.1
Background-03 @ 2.5-5'	5/1/2024	2.5-5'	1.05	34.7	<0.0903	<0.156*	<9.03	3.18	3.49	<0.235	<0.0903	33.4
Background-04 @ 2.5-5'	5/1/2024	2.5-5'	1.37	109	0.146	<0.157*	<8.45	6.19	6.98	<0.220	<0.0845	32.7
Background-05 @ 2.5-5'	5/1/2024	2.5-5'	<b>2.07</b>	97.9	<0.0886	<0.192*	<8.86	6.95	8.89	<0.230	<0.0886	35.9
Background-06 @ 2.5-5'	5/1/2024	2.5-5'	1.41	76.3	<0.0876	<0.163*	<8.76	5.54	6.33	<0.228	<0.0876	<32.4
Maximum Background Concentration			<b>2.07</b>	<b>109</b>								
Mean Background Concentration X 1.25			<b>1.88</b>	<b>93.48</b>								

1. **Bold** values 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

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.



**TABLE 6**  
**SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Depth to Groundwater Below Ground Surface (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67					
MW-01	05/02/24	<b>8.62</b>	1.82	54.4	375	8.61	<b>168</b>	<b>76.1</b>	99.82	1.58	1.58	98.24	NP
MW-02	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	100	1.68	1.68	98.32	NP
MW-03	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.83	1.66	1.66	98.17	NP
MW-04	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.58	1.40	1.40	98.18	NP
MW-05	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.37	1.08	1.08	98.29	NP
MW-06	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	99.99	1.50	1.50	98.49	NP

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed



**TABLE 7**  
**SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
MW-1	5/2/24	894	140	402
MW-02	5/2/24	948	144	445
MW-03	5/2/24	844	129	372
MW-04	5/2/24	868	131	384
MW-05	5/2/24	900	130	378
MW-06	5/2/24	876	134	379
Background Concentration (Current)		1125	163	473

1. Bold values exceed the ECMC limit(s)

2. Blue highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed





## **ATTACHMENT A**

### **Soil Boring Logs / Well Completion Diagrams**

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	(0-2.5') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~20% sand, slight plasticity, N/O, N/S	CL			206.4	N/A			
2.5	(2.5-5') poorly-graded SAND - brown, wet, loose, fine to medium grained, well-graded with trace fines & trace gravel, S/O, BLK/S @~4' - wet	DP	1	90	1573				
5	(5-12.5') FLOWING SANDS	SP			N/A				
10		DP	2	N/A	N/A	N/A			
12.5	BoB @ 12.5'	DP	3	N/A	N/A	N/A			

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: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1053/1115	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1056	



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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	(0-4') sandy CLAY - brown, moist, fine grained, stiff, poorly-graded with ~10% sand, high plasticity, N/O, N/S	CL	DP	1	75	3.7	N/A		
4	(4-5') poorly-graded SAND - brown, wet, loose, fine to medium grained, trace fines & trace gravel, N/O, N/S					3.2			
5	@~4' - wet					3.3			
5	(5-12.5') FLOWING SANDS	SP	DP	2	N/A	N/A	N/A		
10						DP			
12.5	BoB @ 12.5'								

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0.5-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1343/1405	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1345	



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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	(0-4') sandy CLAY - brown, moist, fine grained, stiff, poorly-graded with ~10% sand, high plasticity, N/O, N/S	CL			2.4				
4	(4-5') poorly-graded SAND - brown, wet, loose, fine to medium grained, trace fines & trace gravel, N/O, N/S	DP	1	70	0.8	N/A			
5	@~4' - wet								
5	(5-12.5') FLOWING SANDS	SP	DP	2	N/A	N/A			
10			DP	3	N/A	N/A			
12.5	BoB @ 12.5'								

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0.5-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1125/1139	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1127	



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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	(0-4') sandy CLAY - brown, moist, fine grained, stiff, poorly-graded with ~10% sand, high plasticity, N/O, N/S	CL	DP	1	80	0.5	N/A	<p>Steel/Concrete Casing Bentonite Chips 2" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 2" Dia. Sch. 40 Slotted PVC (0.010") 2" End Cap</p>	
4	(4-5') poorly-graded SAND - brown, wet, loose, fine to medium grained, trace fines & trace gravel, N/O, N/S					3.1			
5	@~4' - wet					3.5			
5	(5-12.5') FLOWING SANDS	SP	DP	2	N/A	N/A	N/A		
10						DP			
12.5	BoB @ 12.5'								

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0.5-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1144/1155	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1146	

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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	(0-4') sandy CLAY - brown, moist, fine grained, stiff, poorly-graded with ~10% sand, high plasticity, N/O, N/S	CL			4.2	N/A	<p>Steel/Concrete Casing Bentonite Chips 2" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 2" Dia. Sch. 40 Slotted PVC (0.010") 2" End Cap</p>		
4	(4-5') poorly-graded SAND - brown, wet, loose, fine to medium grained, trace fines & trace gravel, N/O, N/S	DP	1	80	2.9				
5	@~4' - wet				2.7				
5	(5-12.5') FLOWING SANDS	SP				N/A			
10		DP	2	N/A	N/A	N/A			
10		DP	3	N/A	N/A	N/A			
12.5	BoB @ 12.5'								

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0.5-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1203/1230	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1205	



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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	(0-4') sandy CLAY - brown, moist, fine grained, stiff, poorly-graded with ~10% sand, high plasticity, N/O, N/S	CL			3.4	N/A			
4	(4-5') poorly-graded SAND - brown, wet, very loose, fine to medium grained, trace fines & trace gravel, N/O, N/S @~4' - wet	DP	1	70	3.4				
5	(5-12.5') FLOWING SANDS	SP			4.1				
5		DP	2	N/A	N/A	N/A			
10		DP	3	N/A	N/A	N/A			
12.5	BoB @ 12.5'								

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): 2-12.5
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): 0.5-2
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): 2.5-12.5
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): 2
BORING DEPTH (FEET): 12.5	WELL DEPTH (FEET): 12.5
PID INSTRUMENT: MiniRAE 3000 - PID #10	
TIME STARTED/COMPLETED: 1235/1330	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2-4/1237	

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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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S  @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	DP	1	70	1.8	N/A			
4		SP				2.8				
5						2.1				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/01/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A		
PID INSTRUMENT: MiniRAE 3000 - PID #10			
TIME STARTED/COMPLETED: 1420/1425			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 3-4/1425 & 4-5/1425			



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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	HA	1	100	1.1	N/A			
1		SP				0.5				
2						0.0				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  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 #10			
TIME STARTED/COMPLETED: 1100/1110			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 3-4/1110 & 4-5/1110			

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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	HA	1	100	0.0	N/A			
1		SP				1.8				
2						0.1				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24 SAND PACK INTERVAL (FEET): N/A

PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: I. MCFARLAND / Z. MARTINEZ WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 5 WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1120/1130

SAMPLE COLLECTION DEPTH (FT.)/TIME: 3-4/1130 & 4-5/1130



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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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	DP	1	70	2.5	N/A			
2.5		SP				3.2				
5						2.8				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/01/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: I. MCFARLAND / Z. MARTINEZ	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #10	 <p><b>EAGLE</b>                  ENVIRONMENTAL                  CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033                  Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1410/1415	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 3-4/1412 & 4-5/1412	

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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	DP	1	75	2.6	N/A			
4		SP				2.4				
5						0.4				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/01/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A		
PID INSTRUMENT: MiniRAE 3000 - PID #10			
TIME STARTED/COMPLETED: 1415/1420			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 3-4/1420 & 4-5/1420			



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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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with 10% clay, N/O, N/S	CL	HA	1	100	0.9	N/A			
5		SP				1.2				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  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 #10			
TIME STARTED/COMPLETED: 1140/1150			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1147			

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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet	CL	HA	1	100	0.9	N/A			
5						0.9				
5	(4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with 10% clay, N/O, N/S	SP								
	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24

PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY

LOGGED BY: I. MCFARLAND / Z. MARTINEZ

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

BORING DEPTH (FEET): 5      WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1205/1215

SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1212

SAND PACK INTERVAL (FEET): N/A

BENTONITE/GROUT INTERVAL (FEET): N/A

WELL SCREEN INTERVAL (FEET): N/A

WELL DIAMETER (INCHES): N/A



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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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	HA	1	100	0.5	N/A			
0.5						0.7				
5		BoB @ 5'	SP							
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: 05/02/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  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 #10			
TIME STARTED/COMPLETED: 1220/1230			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1227			

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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S  @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	HA	1	100	0.8	N/A			
5		SP				0.6				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A		
PID INSTRUMENT: MiniRAE 3000 - PID #10			
TIME STARTED/COMPLETED: 1235/1245			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1243			



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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	(0-4') sandy CLAY - brown, moist, fine grained, medium stiff, poorly-graded with ~10% sand, medium plasticity, N/O, N/S @~4' - wet (4-5') clayey SAND - brown, wet, loose, fine to medium grained, poorly-graded with <10% clay, N/O, N/S	CL	HA	1	100	0.5	N/A			
5		SP				0.5				
5	BoB @ 5'									
10										
15										
20										
25										
30										

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

START/COMPLETION DATE: 05/02/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: LOUSTELET T5N-R64W-S15 L01 TANK BATTERY		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: I. MCFARLAND / Z. MARTINEZ		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p><b>EAGLE</b>                  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 #10			
TIME STARTED/COMPLETED: 1150/1200			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 2.5-5/1157			



## **ATTACHMENT B**

### **Laboratory Analytical Reports**

May 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405082-01.

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



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@2-4'	Y405082-01	Soil	May 1, 2024 10:56	05/02/2024 15:15
MW-02@2-4'	Y405082-02	Soil	May 1, 2024 13:45	05/02/2024 15:15
MW-03@2-4'	Y405082-03	Soil	May 1, 2024 11:27	05/02/2024 15:15
MW-04@2-4'	Y405082-04	Soil	May 1, 2024 11:46	05/02/2024 15:15
MW-05@2-4'	Y405082-05	Soil	May 1, 2024 12:05	05/02/2024 15:15
MW-06@2-4'	Y405082-06	Soil	May 1, 2024 12:37	05/02/2024 15:15
SB-01@3-4'	Y405082-07	Soil	May 1, 2024 14:25	05/02/2024 15:15
SB-02@3-4'	Y405082-08	Soil	May 2, 2024 11:10	05/02/2024 15:15
SB-03@3-4'	Y405082-09	Soil	May 2, 2024 11:30	05/02/2024 15:15
SB-04@3-4'	Y405082-10	Soil	May 2, 2024 14:12	05/02/2024 15:15
SB-05@3-4'	Y405082-11	Soil	May 1, 2024 14:20	05/02/2024 15:15
SB-01@4-5'	Y405082-12	Soil	May 1, 2024 14:25	05/02/2024 15:15
SB-02@4-5'	Y405082-13	Soil	May 2, 2024 11:10	05/02/2024 15:15
SB-03@4-5'	Y405082-14	Soil	May 2, 2024 11:30	05/02/2024 15:15

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-04@4-5'	Y405082-15	Soil	May 1, 2024 14:12	05/02/2024 15:15
SB-05@4-5'	Y405082-16	Soil	May 1, 2024 14:20	05/02/2024 15:15
Background-02@2.5-5'	Y405082-17	Soil	May 2, 2024 11:47	05/02/2024 15:15
Background-03@2.5-5'	Y405082-18	Soil	May 2, 2024 12:12	05/02/2024 15:15
Background-04@2.5-5'	Y405082-19	Soil	May 2, 2024 12:27	05/02/2024 15:15
Background-05@2.5-5'	Y405082-20	Soil	May 2, 2024 12:43	05/02/2024 15:15
Background-06@2.5-5'	Y405082-21	Soil	May 2, 2024 11:57	05/02/2024 15:15

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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page 2 of 3



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

Project Manager: Andrew Newberry  
 Project Name: LOUSTELET T5N-R64W-S15 L01 Tank Battery  
 Project Number: \_\_\_\_\_  
 Samples Collected By: ZM/IM

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	CR VI -176A MS -61028 ph -9045D		MS -61028 CR VI -176A	
SB-05034	5/1/24	1420	1	X				X					X	1	pH = saturated
SB-01045	5/1/24	1405	1											2	paste prep
SB-02045	5/2/24	1110	1											3	
SB-03045	5/2/24	1130	1											4	PHDs added
SB-04045	5/1/24	140	1											5	
SB-05045	5/1/24	1420	1											6	
Background-02025.5	5/2/24	1147	2									X	X	7	
Background-03025.5		1212	1											8	
Background-04025.5		1227	1											9	
Background-05025.5		1243	1											10	
Relinquished By: <i>John Heston</i>	Date: 5/2/24	Time: 1515													Turnaround Time:
Relinquished By:	Date:	Time:													Some Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
															48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
															Standard <input checked="" type="checkbox"/>

Temp Received: 4  
 Date Results Needed: *Note*

Origins Laboratory, Inc.  
*J. Bynon*

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1405002

Client: Eagle  
 Client Project ID: Loustelet TSN

Checklist Completed by: JA  
 Date/time completed: 5/2/24

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

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

Cooler Number/Temperature: 1/4 °C      °C      °C (Describe)

Thermometer ID: TO05

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>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.

JA  
 Reviewed by (Project Manager)

5/2/24  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01@2-4'**  
**5/1/2024 10:56:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	3730		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	
Residual Range Organics (C28-C40)	829		100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 165 % 50-150 " " " S-04

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	8.33		0.0500	mg/kg	25	B4E0628	05/06/2024	05/07/2024	
1,3,5-Trimethylbenzene	3.12		0.0500	"	"	"	"	"	
Benzene	0.00466		0.00200	"	1	"	"	05/09/2024	
Ethylbenzene	0.887		0.0500	"	25	"	"	05/07/2024	
Naphthalene	0.0257		0.00380	"	1	"	"	05/09/2024	
Toluene	0.0235		0.00200	"	"	"	"	"	
Xylenes, total	14.1		0.0500	"	25	"	"	05/07/2024	
Gasoline Range Hydrocarbons	1900		50.0	"	250	"	"	05/10/2024	

Surrogate: 1,2-Dichloroethane-d4 91.2 % 70-130 " " 05/07/2024  
 Surrogate: Toluene-d8 118 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

**PAH by EPA 8270E**

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01@2-4'**  
**5/1/2024 10:56:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-01 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	1.31		0.020	mg/kg	10	B4E0630	05/06/2024	05/07/2024	
2-Methylnaphthalene	1.63		0.020	"	"	"	"	"	
Acenaphthene	0.506		0.020	"	1	"	"	05/07/2024	
Anthracene	0.057		0.020	"	"	"	"	"	
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.047		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.683		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	0.042		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	98.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	94.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	82.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

**pH in Soil by 9045D**

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01@2-4'**  
**5/1/2024 10:56:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-01 (Soil)**

**pH in Soil by 9045D**

pH	7.22			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.04		0.258	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	21.4		8.90	"	"	"	"	"	
Cadmium	ND		0.0890	"	"	"	"	"	
Copper	ND		8.90	"	"	"	"	"	
Lead	2.22		0.890	"	"	"	"	"	
Nickel	2.09		0.890	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0890	"	"	"	"	05/07/2024	
Zinc	ND		32.9	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.127	0.317	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02@2-4'**

**5/1/2024 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-02 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	93.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0628	05/06/2024	05/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	98.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02@2-4'**

**5/1/2024 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-02 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	91.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02@2-4'**

**5/1/2024 1:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-02 (Soil)**

**pH in Soil by 9045D**

pH	7.88			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	4.35		0.270	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	146		9.32	"	"	"	"	"	
Cadmium	0.151		0.0932	"	"	"	"	"	
Copper	13.6		9.32	"	"	"	"	"	
Lead	10.1		0.932	"	"	"	"	"	
Nickel	12.5		0.932	"	"	"	"	"	
Selenium	ND		0.242	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	05/07/2024	
Zinc	52.7		34.5	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.185	0.461	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03@2-4'**  
**5/1/2024 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	88.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0628	05/06/2024	05/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03@2-4'**  
**5/1/2024 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-03 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03@2-4'**

**5/1/2024 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-03 (Soil)**

**pH in Soil by 9045D**

pH	7.89			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.30		0.251	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	380		8.66	"	"	"	"	"	
Cadmium	ND		0.0866	"	"	"	"	"	
Copper	16.1		8.66	"	"	"	"	"	
Lead	12.3		0.866	"	"	"	"	"	
Nickel	16.1		0.866	"	"	"	"	"	
Selenium	0.312		0.225	"	"	"	"	"	
Silver	ND		0.0866	"	"	"	"	05/07/2024	
Zinc	66.1		32.0	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.177	0.443	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04@2-4'**

**5/1/2024 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	89.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0628	05/06/2024	05/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04@2-4'**  
**5/1/2024 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-04 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04@2-4'**

**5/1/2024 11:46:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-04 (Soil)**

**pH in Soil by 9045D**

pH	8.00			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.04		0.248	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	107		8.54	"	"	"	"	"	
Cadmium	0.0922		0.0854	"	"	"	"	"	
Copper	ND		8.54	"	"	"	"	"	
Lead	7.11		0.854	"	"	"	"	"	
Nickel	8.74		0.854	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.0854	"	"	"	"	05/07/2024	
Zinc	42.7		31.6	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.135	0.336	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05@2-4'**

**5/1/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	96.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0628	05/06/2024	05/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05@2-4'**  
**5/1/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-05 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	92.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05@2-4'**

**5/1/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-05 (Soil)**

**pH in Soil by 9045D**

pH	7.99			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.00		0.242	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	239		8.36	"	"	"	"	"	
Cadmium	0.125		0.0836	"	"	"	"	"	
Copper	14.9		8.36	"	"	"	"	"	
Lead	10.6		0.836	"	"	"	"	"	
Nickel	13.0		0.836	"	"	"	"	"	
Selenium	0.362		0.217	"	"	"	"	"	
Silver	ND		0.0836	"	"	"	"	05/07/2024	
Zinc	56.1		30.9	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.186	0.465	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06@2-4'**  
**5/1/2024 12:37:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-06 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0701	05/07/2024	05/09/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0628	05/06/2024	05/07/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06@2-4'**  
**5/1/2024 12:37:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-06 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0630	05/06/2024	05/07/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06@2-4'**

**5/1/2024 12:37:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-06 (Soil)**

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.71		0.249	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	88.1		8.57	"	"	"	"	"	
Cadmium	0.213		0.0857	"	"	"	"	"	
Copper	11.7		8.57	"	"	"	"	"	
Lead	10.4		0.857	"	"	"	"	"	
Nickel	7.68		0.857	"	"	"	"	"	
Selenium	0.332		0.223	"	"	"	"	"	
Silver	ND		0.0857	"	"	"	"	05/07/2024	
Zinc	45.2		31.7	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-01@3-4'**

**5/1/2024 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-07 (Soil)**

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-02@3-4'**

**5/2/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-08 (Soil)**

**pH in Soil by 9045D**

pH	8.19			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-03@3-4'**

**5/2/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-09 (Soil)**

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-04@3-4'**

**5/2/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-10 (Soil)**

**pH in Soil by 9045D**

pH	8.40			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-05@3-4'**

**5/1/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-11 (Soil)**

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-01@4-5'**

**5/1/2024 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-12 (Soil)**

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-02@4-5'**

**5/2/2024 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-13 (Soil)**

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-03@4-5'**

**5/2/2024 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-14 (Soil)**

**pH in Soil by 9045D**

pH	8.36			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-04@4-5'**

**5/1/2024 2:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-15 (Soil)**

**pH in Soil by 9045D**

pH	7.76			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**SB-05@4-5'**

**5/1/2024 2:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-16 (Soil)**

**pH in Soil by 9045D**

pH	8.33			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Background-02@2.5-5'**  
**5/2/2024 11:47:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-17 (Soil)**

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.62		0.275	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	56.0		9.48	"	"	"	"	"	
Cadmium	ND		0.0948	"	"	"	"	"	
Copper	ND		9.48	"	"	"	"	"	
Lead	4.56		0.948	"	"	"	"	"	
Nickel	6.36		0.948	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	05/07/2024	
Zinc	ND		35.1	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.120	0.300	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Background-03@2.5-5'**  
**5/2/2024 12:12:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-18 (Soil)**

**pH in Soil by 9045D**

pH	8.38			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.05		0.262	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	34.7		9.03	"	"	"	"	"	
Cadmium	ND		0.0903	"	"	"	"	"	
Copper	ND		9.03	"	"	"	"	"	
Lead	3.18		0.903	"	"	"	"	"	
Nickel	3.49		0.903	"	"	"	"	"	
Selenium	ND		0.235	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	05/07/2024	
Zinc	ND		33.4	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.156	0.391	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Background-04@2.5-5'**  
**5/2/2024 12:27:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-19 (Soil)**

**pH in Soil by 9045D**

pH	8.45			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.37		0.245	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	109		8.45	"	"	"	"	"	
Cadmium	0.146		0.0845	"	"	"	"	"	
Copper	ND		8.45	"	"	"	"	"	
Lead	6.19		0.845	"	"	"	"	"	
Nickel	6.98		0.845	"	"	"	"	"	
Selenium	ND		0.220	"	"	"	"	"	
Silver	ND		0.0845	"	"	"	"	05/07/2024	
Zinc	32.7		31.3	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Background-05@2.5-5'**  
**5/2/2024 12:43:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-20 (Soil)**

**pH in Soil by 9045D**

pH	8.58			pH Units	1	B4E1421	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.07		0.257	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	97.9		8.86	"	"	"	"	"	
Cadmium	ND		0.0886	"	"	"	"	"	
Copper	ND		8.86	"	"	"	"	"	
Lead	6.95		0.886	"	"	"	"	"	
Nickel	8.89		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	05/07/2024	
Zinc	35.9		32.8	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.192	0.480	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Background-06@2.5-5'**  
**5/2/2024 11:57:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405082-21 (Soil)**

**pH in Soil by 9045D**

pH	8.49			pH Units	1	B4E1422	05/14/2024	05/14/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	1.41		0.254	mg/kg	10	B4E0327	05/03/2024	05/06/2024	
Barium	76.3		8.76	"	"	"	"	"	
Cadmium	ND		0.0876	"	"	"	"	"	
Copper	ND		8.76	"	"	"	"	"	
Lead	5.54		0.876	"	"	"	"	"	
Nickel	6.33		0.876	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	05/07/2024	
Zinc	ND		32.4	"	"	"	"	05/06/2024	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.163	0.406	mg/kg dry	1	2617731	05/28/2024	05/29/2024	U
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0628 - EPA 5030 (soil)**

**Blank (B4E0628-BLK1)**

Prepared: 05/06/2024 Analyzed: 05/07/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	99.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	107		70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0628 - EPA 5030 (soil)**

**LCS (B4E0628-BS1)**

Prepared: 05/06/2024 Analyzed: 05/07/2024

1,2,4-Trimethylbenzene	0.0949	0.00200	mg/kg	0.100		94.9	70-130			
1,3,5-Trimethylbenzene	0.0973	0.00200	"	0.100		97.3	70-130			
Benzene	0.0978	0.00200	"	0.100		97.8	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100		94.0	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0965	0.00200	"	0.100		96.5	70-130			
o-Xylene	0.0929	0.00200	"	0.100		92.9	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0628 - EPA 5030 (soil)

Matrix Spike (B4E0628-MS1)	Source: Y405082-02			Prepared: 05/06/2024 Analyzed: 05/07/2024						
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130			
Naphthalene	0.127	0.00380	"	0.100	ND	127	70-130			
Toluene	0.112	0.00200	"	0.100	ND	112	70-130			
o-Xylene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.229	0.00400	"	0.200	0.000820	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 8000 W 44th Ave  
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0628 - EPA 5030 (soil)

Matrix Spike Dup (B4E0628-MSD1)	Source: Y405082-02			Prepared: 05/06/2024 Analyzed: 05/07/2024						
1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100	ND	117	70-130	1.05	20	
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130	1.02	20	
Benzene	0.119	0.00200	"	0.100	ND	119	70-130	1.69	20	
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130	0.622	20	
Naphthalene	0.134	0.00380	"	0.100	ND	134	70-130	5.43	20	QM-07
Toluene	0.113	0.00200	"	0.100	ND	113	70-130	0.569	20	
o-Xylene	0.117	0.00200	"	0.100	ND	117	70-130	0.704	20	
m,p-Xylene	0.229	0.00400	"	0.200	0.000820	114	70-130	0.192	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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
<b>Batch B4E0701 - EPA 3550B</b>										
<b>Blank (B4E0701-BLK1)</b>										
					Prepared: 05/07/2024 Analyzed: 05/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.3	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0701 - EPA 3550B**

**LCS (B4E0701-BS1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

Diesel (C10-C28)	980	50.0	mg/kg	1000		98.0	70-130			
Residual Range Organics (C28-C40)	978	200	"	1000		97.8	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0701 - EPA 3550B**

<b>Matrix Spike (B4E0701-MS1)</b>	<b>Source: Y405082-01</b>			<b>Prepared: 05/07/2024 Analyzed: 05/09/2024</b>						
Diesel (C10-C28)	3860	50.0	mg/kg	1000	3730	12.7	70-130			QM-07
Residual Range Organics (C28-C40)	1400	200	"	1000	829	57.4	70-130			QM-07
Surrogate: o-Terphenyl	83		"	49.8		166	50-150			S-04

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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
<b>Batch B4E0701 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4E0701-MSD1)</b>					<b>Source: Y405082-01</b>					Prepared: 05/07/2024 Analyzed: 05/09/2024
Diesel (C10-C28)	4530	50.0	mg/kg	1000	3730	80.0	70-130	16.0	35	
Residual Range Organics (C28-C40)	1520	200	"	1000	829	69.4	70-130	8.21	35	QM-07
Surrogate: o-Terphenyl	64		"	49.8		129	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0327 - EPA 3050B**

**Blank (B4E0327-BLK1)**

Prepared: 05/03/2024 Analyzed: 05/06/2024

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

**LCS (B4E0327-BS1)**

Prepared: 05/03/2024 Analyzed: 05/06/2024

Arsenic	5.32	0.290	mg/kg	5.00		106	80-120			
Barium	538	10.0	"	500		108	80-120			
Cadmium	5.20	0.100	"	5.00		104	80-120			
Copper	53.3	10.0	"	50.0		107	80-120			
Lead	5.16	1.00	"	5.00		103	80-120			
Nickel	5.22	1.00	"	5.00		104	80-120			
Selenium	9.36	0.260	"	9.50		98.6	80-120			
Silver	5.40	0.100	"	5.00		108	80-120			
Zinc	51.8	37.0	"	50.0		104	80-120			

**Matrix Spike (B4E0327-MS1)**

Source: Y405082-02

Prepared: 05/03/2024 Analyzed: 05/06/2024

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0327 - EPA 3050B**

<b>Matrix Spike (B4E0327-MS1)</b>		<b>Source: Y405082-02</b>			Prepared: 05/03/2024 Analyzed: 05/06/2024					
Arsenic	8.80	0.272	mg/kg	4.68	4.35	95.0	75-125			
Barium	647	9.37	"	468	146	107	75-125			
Cadmium	4.91	0.0937	"	4.68	0.151	102	75-125			
Copper	62.3	9.37	"	46.8	13.6	104	75-125			
Lead	14.2	0.937	"	4.68	10.1	88.9	75-125			
Nickel	16.8	0.937	"	4.68	12.5	90.6	75-125			
Selenium	8.52	0.244	"	8.90	0.195	93.6	75-125			
Silver	4.93	0.0937	"	4.68	0.0112	105	75-125			
Zinc	99.4	34.7	"	46.8	52.7	99.7	75-125			

<b>Matrix Spike Dup (B4E0327-MSD1)</b>		<b>Source: Y405082-02</b>			Prepared: 05/03/2024 Analyzed: 05/06/2024					
Arsenic	8.19	0.246	mg/kg	4.24	4.35	90.7	75-125	7.16	20	
Barium	663	8.47	"	424	146	122	75-125	2.57	20	
Cadmium	4.76	0.0847	"	4.24	0.151	109	75-125	3.07	20	
Copper	56.5	8.47	"	42.4	13.6	101	75-125	9.79	20	
Lead	14.4	0.847	"	4.24	10.1	102	75-125	1.23	20	
Nickel	16.5	0.847	"	4.24	12.5	93.1	75-125	1.81	20	
Selenium	7.25	0.220	"	8.05	0.195	87.6	75-125	16.1	20	
Silver	4.71	0.0847	"	4.24	0.0112	111	75-125	4.42	20	
Zinc	92.6	31.4	"	42.4	52.7	94.2	75-125	7.03	20	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0630 - EPA 3580**

**Blank (B4E0630-BLK1)**

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	200		"	200		99.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

**LCS (B4E0630-BS1)**

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.214	0.002	"	0.200		107	70-130			
Acenaphthene	0.222	0.020	"	0.200		111	70-130			
Anthracene	0.205	0.020	"	0.200		103	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0630 - EPA 3580**

**LCS (B4E0630-BS1)**

Prepared: 05/06/2024 Analyzed: 05/07/2024

Benzo (a) anthracene	0.208	0.005	mg/kg	0.200		104	70-130			
Benzo (a) pyrene	0.207	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.190	0.020	"	0.200		94.9	70-130			
Chrysene	0.216	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200		114	70-130			
Fluoranthene	0.203	0.020	"	0.200		101	70-130			
Fluorene	0.235	0.020	"	0.200		117	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200		103	70-130			
Naphthalene	0.223	0.002	"	0.200		111	70-130			
Phenanthrene	0.213	0.020	"	0.200		107	70-130			
Pyrene	0.201	0.020	"	0.200		101	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike (B4E0630-MS1)**

**Source: Y405046-01**

Prepared: 05/06/2024 Analyzed: 05/07/2024

1-Methylnaphthalene	0.212	0.002	mg/kg	0.200	ND	106	70-130			
2-Methylnaphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Acenaphthene	0.218	0.020	"	0.200	ND	109	70-130			
Anthracene	0.200	0.020	"	0.200	0.001	99.3	70-130			
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	107	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.0007	108	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0630 - EPA 3580**

<b>Matrix Spike (B4E0630-MS1)</b>		<b>Source: Y405046-01</b>			Prepared: 05/06/2024 Analyzed: 05/07/2024					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	0.0006	92.4	70-130			
Chrysene	0.205	0.020	"	0.200	0.0006	102	70-130			
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	ND	111	70-130			
Fluoranthene	0.198	0.020	"	0.200	0.0006	98.8	70-130			
Fluorene	0.231	0.020	"	0.200	ND	116	70-130			
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	0.002	109	70-130			
Naphthalene	0.221	0.002	"	0.200	ND	110	70-130			
Phenanthrene	0.209	0.020	"	0.200	ND	104	70-130			
Pyrene	0.196	0.020	"	0.200	0.0006	97.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	190		"	200		93.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

<b>Matrix Spike Dup (B4E0630-MSD1)</b>		<b>Source: Y405046-01</b>			Prepared: 05/06/2024 Analyzed: 05/07/2024					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	0.981	20	
2-Methylnaphthalene	0.210	0.002	"	0.200	ND	105	70-130	1.11	20	
Acenaphthene	0.217	0.020	"	0.200	ND	109	70-130	0.325	20	
Anthracene	0.202	0.020	"	0.200	0.001	100	70-130	1.03	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	ND	107	70-130	0.653	20	
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130	1.80	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	ND	91.2	70-130	3.63	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0007	103	70-130	3.99	20	
Benzo (k) fluoranthene	0.167	0.020	"	0.200	0.0006	83.3	70-130	10.4	20	
Chrysene	0.214	0.020	"	0.200	0.0006	107	70-130	4.32	20	
Dibenz (a,h) anthracene	0.219	0.020	"	0.200	ND	109	70-130	1.71	20	
Fluoranthene	0.199	0.020	"	0.200	0.0006	99.4	70-130	0.606	20	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0630 - EPA 3580**

<b>Matrix Spike Dup (B4E0630-MSD1)</b>		<b>Source: Y405046-01</b>			Prepared: 05/06/2024 Analyzed: 05/07/2024					
Fluorene	0.225	0.020	mg/kg	0.200	ND	112	70-130	2.96	20	
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	0.002	110	70-130	0.866	20	
Naphthalene	0.217	0.002	"	0.200	ND	109	70-130	1.43	20	
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130	0.167	20	
Pyrene	0.193	0.020	"	0.200	0.0006	96.1	70-130	1.83	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		93.7	60-130			
Surrogate: Pyrene-d10	190		"	200		92.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	60-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E1421 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4E1421-DUP1)</b>		<b>Source: Y405082-01</b>			Prepared: 05/14/2024 Analyzed: 05/14/2024					
pH	7.22		pH Units		7.22			0.00	25	
<b>Batch B4E1422 - Saturated Paste pH/EC</b>										
<b>Duplicate (B4E1422-DUP1)</b>		<b>Source: Y405082-21</b>			Prepared: 05/14/2024 Analyzed: 05/14/2024					
pH	8.49		pH Units		8.49			0.00	25	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2617731 - SW846 3060A</b>										
<b>BLANK (1205745519-BLK)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.391	mg/kg				-			U
<b>LCS (1205745520-BKS)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	3.17	0.320	mg/kg	3.20		98.8	80-120			
<b>DUP (1205745521 D)</b>					Source: 668251001 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.428	mg/kg dry		<0.171		0-50	N/A	50	U
<b>MS (1205745522 S)</b>					Source: 668251001 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	4.63	0.444	mg/kg dry	4.44	<0.177	102	75-125			
<b>DUP (1205745523 D)</b>					Source: Y405082-20 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.431	mg/kg dry		<0.172		0-50	N/A	50	U
<b>MS (1205745524 S)</b>					Source: Y405082-20 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	1.76	0.265	mg/kg dry	2.65	<0.106	66.4	75-125			
<b>ILCS (1205745525-ILCS)</b>					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	7.28	0.343	mg/kg	7.07			80-120			

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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May 10, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405083-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405083-01	Water	May 2, 2024 13:00	05/02/2024 15:15
MW-02	Y405083-02	Water	May 2, 2024 13:05	05/02/2024 15:15
MW-03	Y405083-03	Water	May 2, 2024 13:10	05/02/2024 15:15
MW-04	Y405083-04	Water	May 2, 2024 13:15	05/02/2024 15:15
MW-05	Y405083-05	Water	May 2, 2024 13:20	05/02/2024 15:15
MW-06	Y405083-06	Water	May 2, 2024 13:25	05/02/2024 15:15

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V405083

Client: Eagle

Client Project ID: Loustelet T5N

Checklist Completed by: SA

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

Date/time completed: 5/2/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			NC
Additional Comments (if any):				

<sup>(1)</sup>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.

JB  
 Reviewed by (Project Manager)

5/16/24  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01**

**5/2/2024 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-01 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	97.1 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	101 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.9 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	94.5 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02**

**5/2/2024 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-02 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	99.2 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	95.5 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.3 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	87.4 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03**

**5/2/2024 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-03 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	94.2 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.1 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	86.2 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04**

**5/2/2024 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-04 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	100 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	93.1 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.7 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	88.3 %	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: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05**

**5/2/2024 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-05 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	93.0 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.5 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	88.9 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06**

**5/2/2024 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405083-06 (Water)**

**PAH by EPA 8270E**

Benzo (a) anthracene	ND	0.500	ug/L	1	B4E0740	Windo	05/07/2024	05/09/2024	U
Surrogate: Fluorene-d10	101 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	93.7 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.0 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	90.7 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0740 - EPA 3510C\_MS**

**Blank (B4E0740-BLK1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	ND	0.200	ug/L							U
2-Methylnaphthalene	ND	0.200	"							U
Acenaphthene	ND	2.00	"							U
Anthracene	ND	2.00	"							U
Benzo (a) anthracene	ND	0.500	"							U
Benzo (a) pyrene	ND	2.00	"							U
Benzo (b) fluoranthene	ND	2.00	"							U
Benzo (g,h,i) perylene	ND	2.00	"							U
Benzo (k) fluoranthene	ND	2.00	"							U
Chrysene	ND	2.00	"							U
Dibenz (a,h) anthracene	ND	2.00	"							U
Fluoranthene	ND	2.00	"							U
Fluorene	ND	2.00	"							U
Indeno (1,2,3-cd) pyrene	ND	2.00	"							U
Naphthalene	ND	0.200	"							U
Phenanthrene	ND	2.00	"							U
Pyrene	ND	2.00	"							U
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.7	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			

**LCS (B4E0740-BS1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	18.3	0.200	ug/L	20.0		91.5	70-130			
2-Methylnaphthalene	18.1	0.200	"	20.0		90.7	70-130			
Acenaphthene	19.1	2.00	"	20.0		95.6	70-130			
Anthracene	18.4	2.00	"	20.0		91.8	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0740 - EPA 3510C\_MS**

**LCS (B4E0740-BS1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

Benzo (a) anthracene	18.4	0.500	ug/L	20.0		91.8	70-130			
Benzo (a) pyrene	18.5	2.00	"	20.0		92.5	70-130			
Benzo (b) fluoranthene	19.2	2.00	"	20.0		96.0	70-130			
Benzo (g,h,i) perylene	19.2	2.00	"	20.0		96.0	70-130			
Benzo (k) fluoranthene	18.2	2.00	"	20.0		90.9	70-130			
Chrysene	17.9	2.00	"	20.0		89.4	70-130			
Dibenz (a,h) anthracene	20.8	2.00	"	20.0		104	70-130			
Fluoranthene	18.2	2.00	"	20.0		91.1	70-130			
Fluorene	19.3	2.00	"	20.0		96.4	70-130			
Indeno (1,2,3-cd) pyrene	18.3	2.00	"	20.0		91.3	70-130			
Naphthalene	19.1	0.200	"	20.0		95.7	70-130			
Phenanthrene	18.1	2.00	"	20.0		90.5	70-130			
Pyrene	17.8	2.00	"	20.0		89.0	70-130			
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		92.6	60-130			

**LCS Dup (B4E0740-BSD1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	17.9	0.200	ug/L	20.0		89.7	70-130	1.91	20	
2-Methylnaphthalene	17.9	0.200	"	20.0		89.4	70-130	1.43	20	
Acenaphthene	19.2	2.00	"	20.0		95.9	70-130	0.265	20	
Anthracene	18.5	2.00	"	20.0		92.7	70-130	1.01	20	
Benzo (a) anthracene	18.2	0.500	"	20.0		91.2	70-130	0.728	20	
Benzo (a) pyrene	18.8	2.00	"	20.0		94.2	70-130	1.76	20	
Benzo (b) fluoranthene	19.4	2.00	"	20.0		97.1	70-130	1.19	20	
Benzo (g,h,i) perylene	19.9	2.00	"	20.0		99.6	70-130	3.68	20	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0740 - EPA 3510C\_MS**

**LCS Dup (B4E0740-BSD1)**

Prepared: 05/07/2024 Analyzed: 05/09/2024

Benzo (k) fluoranthene	19.0	2.00	ug/L	20.0		95.0	70-130	4.41	20	
Chrysene	17.8	2.00	"	20.0		89.1	70-130	0.288	20	
Dibenz (a,h) anthracene	21.5	2.00	"	20.0		108	70-130	3.17	20	
Fluoranthene	18.9	2.00	"	20.0		94.5	70-130	3.60	20	
Fluorene	19.3	2.00	"	20.0		96.6	70-130	0.251	20	
Indeno (1,2,3-cd) pyrene	19.3	2.00	"	20.0		96.7	70-130	5.79	20	
Naphthalene	18.9	0.200	"	20.0		94.5	70-130	1.23	20	
Phenanthrene	18.3	2.00	"	20.0		91.5	70-130	1.06	20	
Pyrene	16.4	2.00	"	20.0		82.0	70-130	8.14	20	
Surrogate: Fluorene-d10	200		"	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.*



May 10, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405084-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405084-01	Water	May 2, 2024 13:00	05/02/2024 15:15
MW-02	Y405084-02	Water	May 2, 2024 13:05	05/02/2024 15:15
MW-03	Y405084-03	Water	May 2, 2024 13:10	05/02/2024 15:15
MW-04	Y405084-04	Water	May 2, 2024 13:15	05/02/2024 15:15
MW-05	Y405084-05	Water	May 2, 2024 13:20	05/02/2024 15:15
MW-06	Y405084-06	Water	May 2, 2024 13:25	05/02/2024 15:15

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V405084

Client: Eagle

Client Project ID: Loustelet T5N

Checklist Completed by: SA

Shipped Via: HO

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

Date/time completed: 5/2/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4 °C / °C / °C / °C (Describe)

Thermometer ID: TOOS

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (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 <sub>3</sub> ; HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

<sup>(1)</sup>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: JB (Project Manager)

Date/Time Reviewed: 5/16/24

Origins Laboratory, Inc.

*J. Bynon*

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01**

**5/2/2024 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y405084-01 (Water)**

**Anions by IC 300.0**

Chloride	140	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	402	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	894	5.00	"	1	B4E0222	KRM	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02**

**5/2/2024 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405084-02 (Water)**

**Anions by IC 300.0**

Chloride	144	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	445	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	948	5.00	"	1	B4E0222	KRM	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03**

**5/2/2024 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405084-03 (Water)**

**Anions by IC 300.0**

Chloride	129	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	372	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	844	5.00	"	1	B4E0222	KRM	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04**

**5/2/2024 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y405084-04 (Water)

**Anions by IC 300.0**

Chloride	131	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	384	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	868	5.00	"	1	B4E0222	KRM	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05**

**5/2/2024 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y405084-05 (Water)

**Anions by IC 300.0**

Chloride	130	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	378	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	900	5.00	"	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06**

**5/2/2024 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405084-06 (Water)**

**Anions by IC 300.0**

Chloride	134	31.2	mg/L	125	B4E0320	DLT	05/03/2024	05/03/2024	
Sulfate	379	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	876	5.00	"	1	B4E0322	VK	05/03/2024	05/06/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E0222 - NO PREP</b>										
<b>Blank (B4E0222-BLK1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4E0222-BS1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	1030	5.00	mg/L	1070		96.1	90-110			
<b>Duplicate (B4E0222-DUP1)</b>		<b>Source: Y405005-01</b>			Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	2580	5.00	mg/L		2630			2.15	10	
<b>Batch B4E0320 - Filter .45um non acidified</b>										
<b>Blank (B4E0320-BLK1)</b>					Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
<b>LCS (B4E0320-BS1)</b>					Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	3.85	0.250	mg/L	4.00		96.2	90-110			
Sulfate	3.88	0.250	"	4.00		96.9	90-110			
<b>Matrix Spike (B4E0320-MS1)</b>		<b>Source: Y405084-01</b>			Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	644		mg/L	500	140	101	90-110			
Sulfate	903		"	500	402	100	90-110			
<b>Matrix Spike Dup (B4E0320-MSD1)</b>		<b>Source: Y405084-01</b>			Prepared: 05/03/2024 Analyzed: 05/03/2024					
Chloride	623		mg/L	500	140	96.7	90-110	3.23	5	
Sulfate	879		"	500	402	95.4	90-110	2.71	5	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E0322 - NO PREP</b>										
<b>Blank (B4E0322-BLK1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4E0322-BS1)</b>					Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	1050	5.00	mg/L	1070		97.9	90-110			
<b>Duplicate (B4E0322-DUP1)</b>		<b>Source: Y405084-05</b>			Prepared: 05/03/2024 Analyzed: 05/06/2024					
Total Dissolved Solids	904	5.00	mg/L		900			0.443	10	

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

---

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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May 10, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. May 02, 2024. This project is associated with Origins project number Y405085-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y405085-01	Water	May 2, 2024 13:00	05/02/2024 15:15
MW-02	Y405085-02	Water	May 2, 2024 13:05	05/02/2024 15:15
MW-03	Y405085-03	Water	May 2, 2024 13:10	05/02/2024 15:15
MW-04	Y405085-04	Water	May 2, 2024 13:15	05/02/2024 15:15
MW-05	Y405085-05	Water	May 2, 2024 13:20	05/02/2024 15:15
MW-06	Y405085-06	Water	May 2, 2024 13:25	05/02/2024 15:15

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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

**Sample Receipt Checklist**

Origins Work Order: 1405085 Client: Eagle  
 Client Project ID: Loustelet T5N

Checklist Completed by: SA Shipped Via: HO  
 Date/time completed: 5/2/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 114 °C  °C  °C (Describe)

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	/			NC
Additional Comments (if any):				

<sup>(1)</sup>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) 5/2/24  
Date/Time Reviewed

Origins Laboratory, Inc.  


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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-01**

**5/2/2024 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-01 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	168	20.0	ug/L	10	B4E0412	JSM	05/04/2024	05/04/2024	
1,3,5-Trimethylbenzene	76.1	2.00	"	1	"	JSM	"	05/05/2024	
Benzene	8.62	1.00	"	"	"	JSM	"	"	
Ethylbenzene	54.4	1.00	"	"	"	JSM	"	"	
Naphthalene	8.61	2.00	"	"	"	JSM	"	"	
Toluene	1.82	1.00	"	"	"	JSM	"	"	
Xylenes, total	375	1.00	"	"	"	JSM	"	05/04/2024	

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"		05/05/2024	
Surrogate: Toluene-d8	104 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"		"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-02**

**5/2/2024 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-03**

**5/2/2024 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-03 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130				"	"	"	
Surrogate: Toluene-d8	99.8 %	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: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-04**

**5/2/2024 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-04 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	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: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-05**

**5/2/2024 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-05 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**MW-06**

**5/2/2024 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405085-06 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4E0412	JSM	05/04/2024	05/04/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0412 - EPA 5030B (Water)**

**Blank (B4E0412-BLK1)**

Prepared: 05/04/2024 Analyzed: 05/04/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	61		"	62.5	98.3		70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5	109		70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0412 - EPA 5030B (Water)

**LCS (B4E0412-BS1)**

Prepared: 05/04/2024 Analyzed: 05/04/2024

1,2,4-Trimethylbenzene	56.0	2.00	ug/L	50.0		112	70-130			
1,3,5-Trimethylbenzene	56.7	2.00	"	50.0		113	70-130			
Benzene	56.2	1.00	"	50.0		112	70-130			
Ethylbenzene	51.5	1.00	"	50.0		103	70-130			
m,p-Xylene	100	2.00	"	100		100	70-130			
Naphthalene	45.8	2.00	"	50.0		91.6	70-130			
o-Xylene	48.6	1.00	"	50.0		97.1	70-130			
Toluene	48.0	1.00	"	50.0		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0412 - EPA 5030B (Water)**

<b>Matrix Spike (B4E0412-MS1)</b>	<b>Source: Y405085-02</b>			<b>Prepared: 05/04/2024 Analyzed: 05/04/2024</b>						
1,2,4-Trimethylbenzene	56.4	2.00	ug/L	50.0	ND	113	70-130			
1,3,5-Trimethylbenzene	57.1	2.00	"	50.0	ND	114	70-130			
Benzene	54.6	1.00	"	50.0	ND	109	70-130			
Ethylbenzene	50.8	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	99.1	2.00	"	100	ND	99.1	70-130			
Naphthalene	43.6	2.00	"	50.0	ND	87.2	70-130			
o-Xylene	49.1	1.00	"	50.0	ND	98.2	70-130			
Toluene	47.3	1.00	"	50.0	ND	94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4E0412 - EPA 5030B (Water)**

Matrix Spike Dup (B4E0412-MSD1)	Source: Y405085-02			Prepared: 05/04/2024 Analyzed: 05/04/2024						
1,2,4-Trimethylbenzene	53.7	2.00	ug/L	50.0	ND	107	70-130	4.94	20	
1,3,5-Trimethylbenzene	55.2	2.00	"	50.0	ND	110	70-130	3.35	20	
Benzene	52.0	1.00	"	50.0	ND	104	70-130	4.82	20	
Ethylbenzene	48.5	1.00	"	50.0	ND	97.1	70-130	4.59	20	
m,p-Xylene	96.7	2.00	"	100	ND	96.7	70-130	2.43	20	
Naphthalene	42.2	2.00	"	50.0	ND	84.4	70-130	3.26	20	
o-Xylene	47.7	1.00	"	50.0	ND	95.5	70-130	2.83	20	
Toluene	46.2	1.00	"	50.0	ND	92.3	70-130	2.52	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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