



# ERM

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9/27/2024

Former Becca #D3-11

NESW S3 T3N R64W

Remediation #22098

Operator #100322

This groundwater monitoring summary has been prepared by ERM, Inc. for the former Becca #D3-11 location. Analytical results from Q1 2024 through Q3 2024 are summarized below.

## 1. SITE HISTORY AND BACKGROUND

On February 24, 2022, Chevron (formerly Noble Energy) proposed a site investigation following the cutting and capping of the former Becca #D3-11 wellhead and flowline abandonment in Form 27 Doc. #402965054. During this investigation, soil samples were collected and analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, electrical conductivity (EC), sodium adsorption ratio (SAR), pH, and boron. A single groundwater grab sample was also collected and analyzed for BTEX and naphthalene.

During site assessment activities, summarized in Form 27 Doc. #403330017, four monitoring wells (MW-01, MW-02, MW-03, and MW-04) were installed to define the extent of groundwater impacts and to delineate the extent of soil impacts at the Becca #D3-11 Site. Based on the delineation soil sample analytical results, the previous consultant (Eagle Environmental [Eagle]) defined the area of impacted soils and approximately 170 cubic yards were excavated. Eagle collected confirmation soil samples from the walls and base of the excavation and analyzed them for TPH and organic compounds. Confirmation soil samples collected by Eagle were reported to be in compliance with Colorado Oil & Gas Conservation Commission (COGCC) Table 915-1 regulatory limits.

Groundwater samples from the four monitoring wells were analyzed for BTEX, naphthalene, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB), 1-methylnaphthalene (1-MNA), 2-methylnaphthalene (2-MNA), and benzo(a)-anthracene. Based on the analytical results, quarterly groundwater monitoring was proposed at the Site. Quarterly groundwater monitoring has been ongoing at all four monitoring wells since Q4 2022. During the excavation, MW-01 and MW-02 were destroyed and replaced with MW-01R and MW-02R, which have been sampled quarterly since Q2-2023.

## 1.1 HISTORICAL DATA

1,2,4-TMB, 1,3,5-TMB, and 1-MNA were reported above their respective Colorado Energy and Carbon Management Commission (ECMC) Table 915-1 standards in the groundwater sample collected from MW-01 in Q4 2022. In addition, 1-MNA was reported above its Table 915-1 standard in the groundwater sample collected from MW-01R in Q2 2023. All other analytes have been reported either below their respective Table 915-1 standard, or below their respective laboratory reporting limit from all four wells since quarterly monitoring began. Analytical results are summarized in **Table 1**.

## 2. GROUNDWATER MONITORING ACTIVITIES

### 2.1 METHODOLOGY

Quarterly groundwater monitoring was conducted at four monitoring wells (MW-01R, MW-02R, MW-03, and MW-04) on January 11, 2024 (Q1 2024), April 10, 2024 (Q2 2024) and July 18, 2024 (Q3 2024). Four (4) groundwater samples were submitted to Origins Laboratory from each of the three sampling events for analysis for BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB by Environmental Protection Agency (EPA) method 8260D and for semi-volatile organic compounds (SVOCs) 1-MNA, 2-MNA, and benzo(a)-anthracene by EPA method 8270 SIM.

### 2.2 RESULTS

Historical and recent groundwater organic and SVOC analytical results are summarized in **Table 1**. Groundwater elevation data is summarized in **Table 2**. The laboratory analytical reports for the three most recent quarterly sampling events discussed herein are included in **Attachment A**.

#### 2.2.1 Q1-2024

First quarter 2024 analytical results showed that organic compound concentrations complied with the applicable ECMC Table 915-1 regulatory standards at all four (4) monitoring wells sampled. All four monitoring well locations reported detections for 2-MNA but the concentrations were below the Table 915-1 regulatory standards.

Sample locations and corresponding organic analytical results for Q1 2024 are illustrated on **Figure 1**. Groundwater elevation data for Q1-2024 is illustrated on **Figure 4**.

#### 2.2.2 Q2-2024

Second quarter 2024 analytical results showed that organic compound and SVOC concentrations complied with the applicable ECMC Table 915-1 regulatory standards at all four (4) monitoring wells sampled. No detections were reported in any of the groundwater samples collected from the four monitoring wells.

Monitoring well locations and corresponding organic analytical results for Q2 2024 are illustrated on **Figure 2**. Groundwater elevation data for Q2 2024 is illustrated on **Figure 5**.

### 2.2.3 Q3-2024

Third quarter 2024 analytical results showed that organic compound and SVOC concentrations complied with the applicable ECMC Table 915-1 regulatory standards at all four (4) monitoring wells sampled. No detections were reported in any of the groundwater samples collected from the four monitoring wells.

Monitoring locations and corresponding organic analytical results for Q3 2024 are illustrated on **Figure 3**. Groundwater elevation data for Q3 2024 is illustrated on **Figure 6**.

## 3. CURRENT REMEDIATION STRATEGY AND PATH FORWARD

Monitored Natural Attenuation (MNA) was selected as the remediation strategy for this Site during the third quarter 2023 until four consecutive quarters of compliant analytical results are reported from each of the four monitoring wells, at which point a No Further Assessment (NFA) may be requested. Since the sample results for all four monitoring wells have remained below the Table 915-1 Regulatory Standards for the last five quarterly monitoring events (Q3 2023 through Q3 2024), Chevron proposes that NFA status be granted by ECMC for Remediation Project #22098.

Fourth quarter 2024 groundwater sampling will be conducted at all four monitoring wells in October 2024 while ECMC evaluates the NFA request.

TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
BECCA #D3-11  
COLORADO

Sample ID	Sampling Event Quarter and Year	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5- Trimethylbenzene (µg/L)	1-Methylnaphthalene (µg/L)	2-Methylnaphthalene (µg/L)	Benzo(a)anthracene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Groundwater Elevation (ft)
ECMC Table 915-1 Limits			5	560	700	1400	140	67	67	1.1	3.6	NE			
22098-MW-01	4Q 2022	10/25/2022	<1.0	<1.0	3.78	52.6	32.2	782	387	154	NA	NA	99.51	13.88	85.63
22098-MW-01R	1Q 2023	04/17/2023	<1.0	<1.0	1.92	3.84	<2.0	<2.0	<2.0	1.21	0.0258	<0.02	99.83	14.42	85.41
	2Q 2023	07/03/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	0.039	<0.02	<0.02	99.83	13.36	86.47
	3Q 2023	10/04/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.83	12.82	87.01
	1Q 2024	01/11/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	0.223	<0.5	99.83	12.99	86.84
	2Q 2024	04/10/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.83	12.96	86.87
	3Q 2024	07/18/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	NA	99.83	13.20	86.63
22098-MW-02	4Q 2022	10/25/2022	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	0.041	NA	NA	99.54	13.93	85.61
22098-MW-02R	1Q 2023	04/17/2023	<1.0	<1.0	2.16	15.4	<2.0	<2.0	<2.0	0.009	<0.02	<0.02	99.91	14.50	85.41
	2Q 2023	07/03/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.02	<0.02	<0.02	99.91	13.47	86.44
	3Q 2023	10/04/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.91	12.81	87.10
	1Q 2024	01/11/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	0.244	<0.5	99.91	13.02	86.89
	2Q 2024	04/10/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.91	12.97	86.94
	3Q 2024	07/18/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	NA	99.91	13.19	86.72
22098-MW-03	4Q 2022	10/25/2022	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.1	NA	NA	100.00	14.50	85.50
	1Q 2023	04/17/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.02	<0.02	<0.02	100.00	13.61	86.39
	2Q 2023	07/03/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.02	<0.02	<0.02	100.00	12.60	87.40
	3Q 2023	10/04/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	100.00	11.96	88.04
	1Q 2024	01/11/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	0.217	<0.5	100.00	13.14	86.86
	2Q 2024	04/10/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	100.00	12.10	87.90
	3Q 2024	07/18/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	NA	100.00	12.32	87.68
22098-MW-04	4Q 2022	10/25/2022	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.1	NA	NA	99.50	13.81	85.69
	1Q 2023	04/17/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.02	<0.02	<0.02	99.50	14.32	85.18
	2Q 2023	07/03/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.02	<0.02	<0.02	99.50	13.99	85.51
	3Q 2023	10/04/2023	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.50	12.64	86.86
	1Q 2024	01/11/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	0.220	<0.5	99.50	12.81	86.69
	2Q 2024	04/10/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	<0.5	99.50	12.81	86.69
	3Q 2024	07/18/2024	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<0.2	<0.2	NA	99.50	13.01	86.49

**Table 1**  
**SUMMARY OF GROUNDWATER DATA AND ORGANIC CHEMISTRY DATA**  
**BECCA #D3-11**  
**COLORADO**

**Notes:**

CO-ECMC-HH-WG = Groundwater Screening Levels - Human Health Based

782	Result exceeds CO-ECMC-HH-WG
<1.0	Result not detected at laboratory reporting limit

µg/L = micrograms per liter

NA = not analyzed

NE = not established

TOC = Top of Casing

Groundwater Elevation (ft) = relative to TOC

**TABLE 2**  
**SUMMARY OF WATER LEVEL ELEVATIONS**  
**BECCA #D 3-11**  
**COLORADO**

Well	Measurement Date	Top of Casing (TOC) Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
MW-01	10/25/2022	99.51	13.88	85.63
MW-01R	04/17/2023	99.83	14.42	85.41
	07/03/2023	99.83	13.36	86.47
	10/04/2023	99.83	12.82	87.01
	01/11/2024	99.83	12.99	86.84
	04/10/2024	99.83	12.96	86.87
	07/18/2024	99.83	13.20	86.63
	MW-02	10/25/2022	99.54	13.93
MW-02R	04/17/2023	99.91	14.50	85.41
	07/03/2023	99.91	13.47	86.44
	10/04/2023	99.91	12.81	87.10
	01/11/2024	99.91	13.02	86.89
	04/10/2024	99.91	12.97	86.94
	07/18/2024	99.91	13.19	86.72
	MW-03	10/25/2022	100.00	14.50
04/17/2023		100.00	13.61	86.39
07/03/2023		100.00	12.60	87.40
10/04/2023		100.00	11.96	88.04
01/11/2024		100.00	13.14	86.86
04/10/2024		100.00	12.10	87.90
07/18/2024		100.00	12.32	87.68
MW-04	10/25/2022	99.50	13.81	85.69
	04/17/2023	99.50	14.32	85.18
	07/03/2023	99.50	13.99	85.51
	10/04/2023	99.50	12.64	86.86
	01/11/2024	99.50	12.81	86.69
	04/10/2024	99.50	12.81	86.69
	07/18/2024	99.50	13.01	86.49

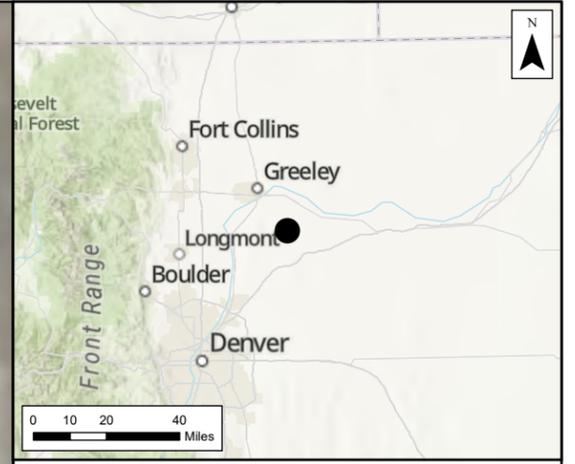
**Table 2**  
**SUMMARY OF WATER LEVEL ELEVATIONS**  
**BECCA #D 3-11**  
**COLORADO**

Notes:

ft = feet

TOC = Top of Casing

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**MW-02R**  
 1/11/2024  
 B: < 1  
 T: < 1  
 E: < 1  
 X: < 1  
 N: < 2  
 1,2,4-TMB: < 2  
 1,3,5-TMB: < 2  
 1-Methylnaphthalene: < 0.2  
 2-Methylnaphthalene: 0.244  
 Benzo(a)anthracene: < 0.5

**MW-01R**  
 1/11/2024  
 B: < 1  
 T: < 1  
 E: < 1  
 X: < 1  
 N: < 2  
 1,2,4-TMB: < 2  
 1,3,5-TMB: < 2  
 1-Methylnaphthalene: < 0.2  
 2-Methylnaphthalene: 0.223  
 Benzo(a)anthracene: < 0.5

**MW-04**  
 1/11/2024  
 B: < 1  
 T: < 1  
 E: < 1  
 X: < 1  
 N: < 2  
 1,2,4-TMB: < 2  
 1,3,5-TMB: < 2  
 1-Methylnaphthalene: < 0.2  
 2-Methylnaphthalene: 0.22  
 Benzo(a)anthracene: < 0.5

**MW-03**  
 1/11/2024  
 B: < 1  
 T: < 1  
 E: < 1  
 X: < 1  
 N: < 2  
 1,2,4-TMB: < 2  
 1,3,5-TMB: < 2  
 1-Methylnaphthalene: < 0.2  
 2-Methylnaphthalene: 0.217  
 Benzo(a)anthracene: < 0.5

**Legend**

- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Excavated Area Boundary

Notes:  
 Results are in micrograms per liter (µg/L)  
 Wells were installed to delineate soil impacts with soil being excavated in Q1-2023.  
 < = detected below analyte reporting limit

- Benzene (limit = 5 µg/L)
- Toluene (limit = 560 µg/L)
- Ethylbenzene (limit = 700 µg/L)
- Total Xylenes (limit = 1400 µg/L)
- Naphthalene (limit = 140 µg/L)
- 1,2,4-TMB (limit = 67 µg/L)
- 1,3,5-TMB (limit = 67 µg/L)
- 1-Methylnaphthalene (limit = 1.1 µg/L)
- 2-Methylnaphthalene (limit = 3.6 µg/L)
- Benzo(a)-anthracene (limit = 0.16 µg/L)

- B = Benzene
- E = Ethylbenzene
- N = Naphthalene
- T = Toluene
- X = Total Xylenes
- 1,2,4-TMB = 1,2,4-Trimethylbenzene
- 1,3,5-TMB = 1,3,5-Trimethylbenzene

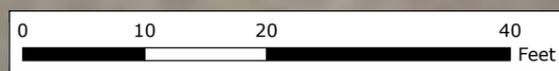
Values presented in **Bold** exceed the ECMC table 915-1 cleanup concentrations for that compound.

ECMC = Energy and Carbon Management Commission

MW-01 and MW-02 were destroyed and replaced with MW-01R and MW-02R.

ECMC Regulatory Limits in Groundwater have not been established for 1-Methylnaphthalene and 2-Methylnaphthalene. ECMC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) For tapwater, as incorporated by reference in Rule 90 1.B, tables for target risk (Ir\*)=1x10<sup>-6</sup> and target hazard quotient (Ihq\*)=0.1. The EPA RSL For tapwater, and resultant narrative groundwater quality standard for 1-Methylnaphthalene and 2-Methylnaphthalene are 1.1 and 3.6 µg/L, respectively.

**Figure 1**  
**Groundwater Analytical Map**  
**Q1 2024**  
 Becca D3-11  
 Site Rem #22098  
 Operator #100322  
 40.2523°N, 104.5394°W



FILE: M:\US\Projects\VA-C\Chem\RBLL\Groundwater\_Monitoring\ArcGIS\Becca\_D3-11\Becca D3-11.aprx... REVISION: 09/21/2024... SCALE: 1:180, when printed at 11x17



**MW-02R**  
4/10/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: < 0.5

**MW-01R**  
4/10/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: < 0.5

**MW-04**  
4/10/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: < 0.5

**MW-03**  
4/10/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: < 0.5



**Legend**

- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Excavated Area Boundary

Notes:  
Results are in micrograms per liter (µg/L)  
  
Wells were installed to delineate soil impacts with soil being excavated in Q1-2023.  
  
< = detected below analyte reporting limit

- Benzene (limit = 5 µg/L)
- Toluene (limit = 560 µg/L)
- Ethylbenzene (limit = 700 µg/L)
- Total Xylenes (limit = 1400 µg/L)
- Naphthalene (limit = 140 µg/L)
- 1,2,4-TMB (limit = 67 µg/L)
- 1,3,5-TMB (limit = 67 µg/L)
- 1-Methylnaphthalene (limit = 1.1 µg/L)
- 2-Methylnaphthalene (limit = 3.6 µg/L)
- Benzo(a)-anthracene (limit = 0.16 µg/L)

- B = Benzene
- E = Ethylbenzene
- N = Naphthalene
- T = Toluene
- X = Total Xylenes
- 1,2,4-TMB = 1,2,4-Trimethylbenzene
- 1,3,5-TMB = 1,3,5-Trimethylbenzene

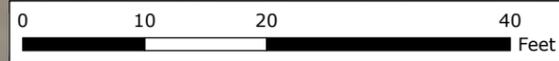
Values presented in **Bold** exceed the ECMC table 915-1 cleanup concentrations for that compound.

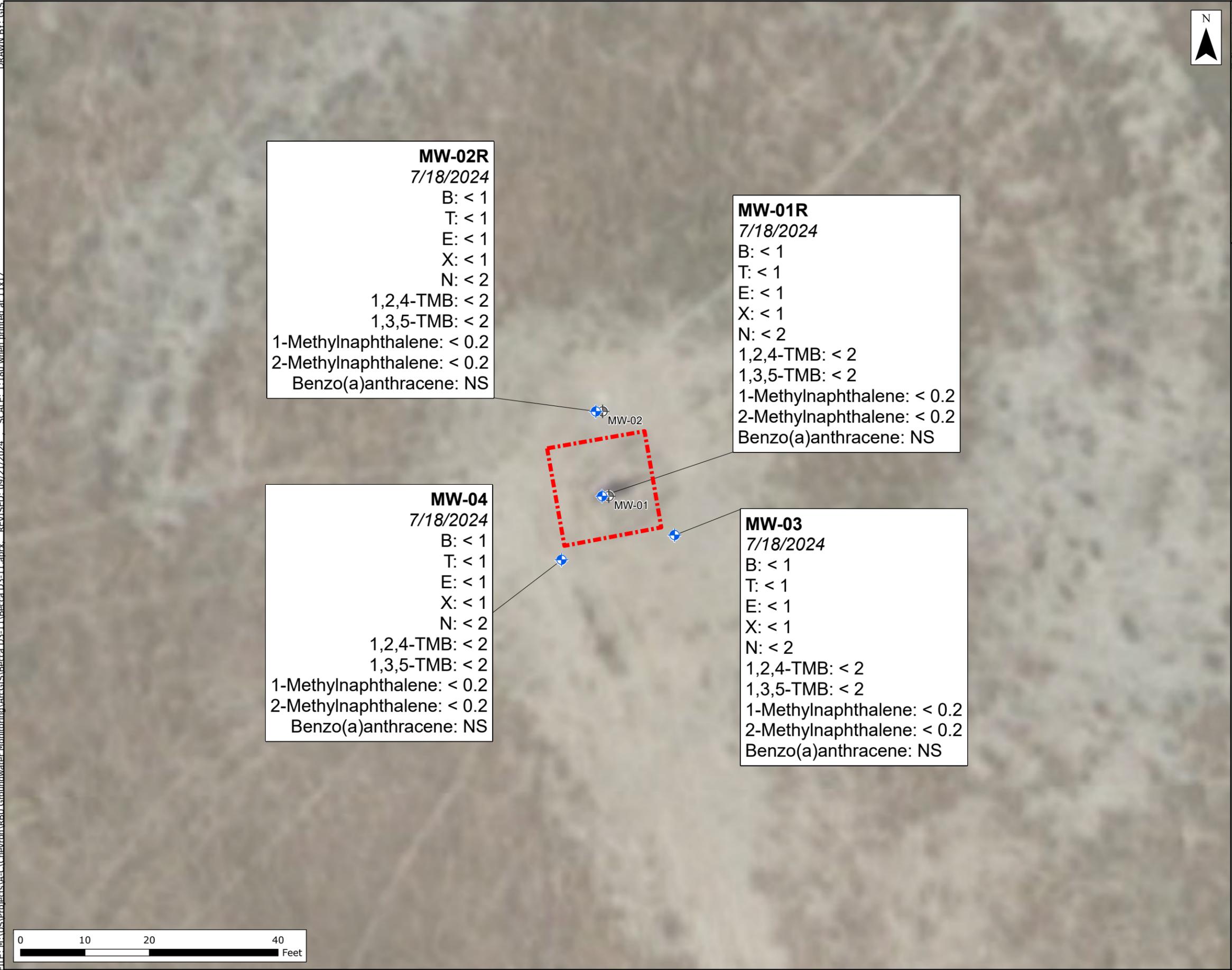
ECMC = Energy and Carbon Management Commission

MW-01 and MW-02 were destroyed and replaced with MW-01R and MW-02R.

ECMC Regulatory Limits in Groundwater have not been established for 1-Methylnaphthalene and 2-Methylnaphthalene. ECMC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) For tapwater, as incorporated by reference in Rule 90 1.B, tables for target risk (Ir\*)=1x10<sup>-6</sup> and target hazard quotient (Ihq\*)=0.1. The EPA RSL For tapwater, and resultant narrative groundwater quality standard for 1-Methylnaphthalene and 2-Methylnaphthalene are 1.1 and 3.6 µg/L, respectively.

**Figure 2**  
**Groundwater Analytical Map**  
**Q2 2024**  
Becca D3-11  
Site Rem #22098  
Operator #100322  
40.2523°N, 104.5394°W



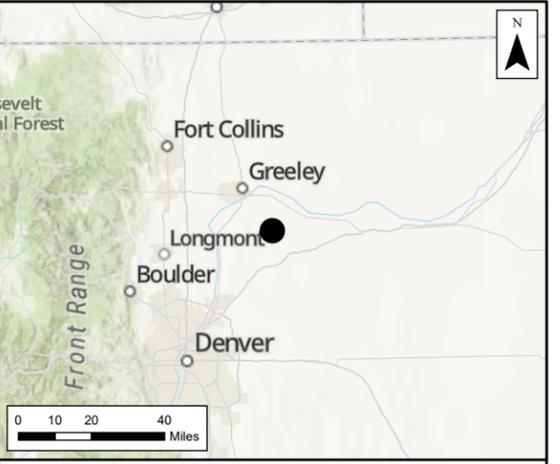


**MW-02R**  
7/18/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: NS

**MW-01R**  
7/18/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: NS

**MW-04**  
7/18/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: NS

**MW-03**  
7/18/2024  
B: < 1  
T: < 1  
E: < 1  
X: < 1  
N: < 2  
1,2,4-TMB: < 2  
1,3,5-TMB: < 2  
1-Methylnaphthalene: < 0.2  
2-Methylnaphthalene: < 0.2  
Benzo(a)anthracene: NS



**Legend**

- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Excavated Area Boundary

Notes:  
Results are in micrograms per liter (µg/L)  
  
Wells were installed to delineate soil impacts with soil being excavated in Q1-2023.  
  
< = detected below analyte reporting limit

- Benzene (limit = 5 µg/L)
- Toluene (limit = 560 µg/L)
- Ethylbenzene (limit = 700 µg/L)
- Total Xylenes (limit = 1400 µg/L)
- Naphthalene (limit = 140 µg/L)
- 1,2,4-TMB (limit = 67 µg/L)
- 1,3,5-TMB (limit = 67 µg/L)
- 1-Methylnaphthalene (limit = 1.1 µg/L)
- 2-Methylnaphthalene (limit = 3.6 µg/L)
- Benzo(a)-anthracene (limit = 0.16 µg/L)

- B = Benzene
- E = Ethylbenzene
- N = Naphthalene
- T = Toluene
- X = Total Xylenes
- 1,2,4-TMB = 1,2,4-Trimethylbenzene
- 1,3,5-TMB = 1,3,5-Trimethylbenzene

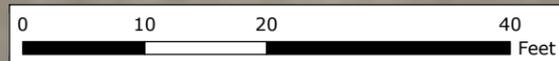
Values presented in **Bold** exceed the ECMC table 915-1 cleanup concentrations for that compound.

ECMC = Energy and Carbon Management Commission

MW-01 and MW-02 were destroyed and replaced with MW-01R and MW-02R.

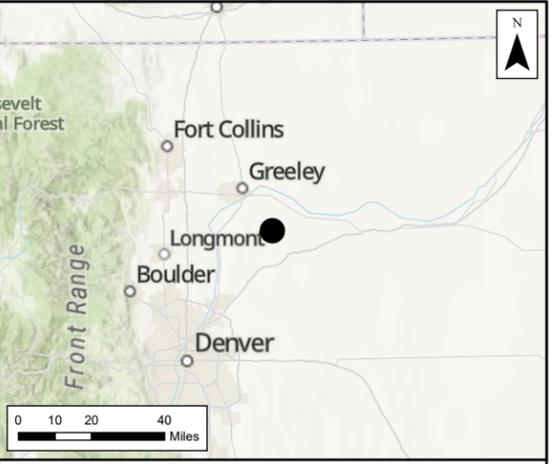
ECMC Regulatory Limits in Groundwater have not been established for 1-Methylnaphthalene and 2-Methylnaphthalene. ECMC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) For tapwater, as incorporated by reference in Rule 90 1.B, tables for target risk (Ir\*)=1x10<sup>-6</sup> and target hazard quotient (Ihq\*)=0.1. The EPA RSL For tapwater, and resultant narrative groundwater quality standard for 1-Methylnaphthalene and 2-Methylnaphthalene are 1.1 and 3.6 µg/L, respectively.

**Figure 3**  
**Groundwater Analytical Map**  
**Q3 2024**  
Becca D3-11  
Site Rem #22098  
Operator #100322  
40.2523°N, 104.5394°W



DRAWN BY: GIS

FILE: M:\US\Projects\VA-Chevron\RBUI\_Groundwater\_Monitoring\ArcGIS\Becca\_D3-11\Becca\_D3-11.aprx... REVISSED: 09/21/2024... SCALE: 1:180 when printed at 11x17



**Legend**

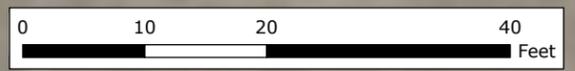
- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Groundwater Flow Direction
- Groundwater Elevation Contour (ft)
- 86.69 Relative Groundwater Elevation
- Excavated Area Boundary

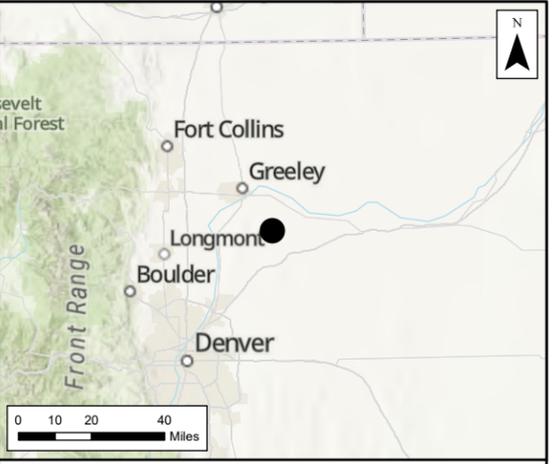
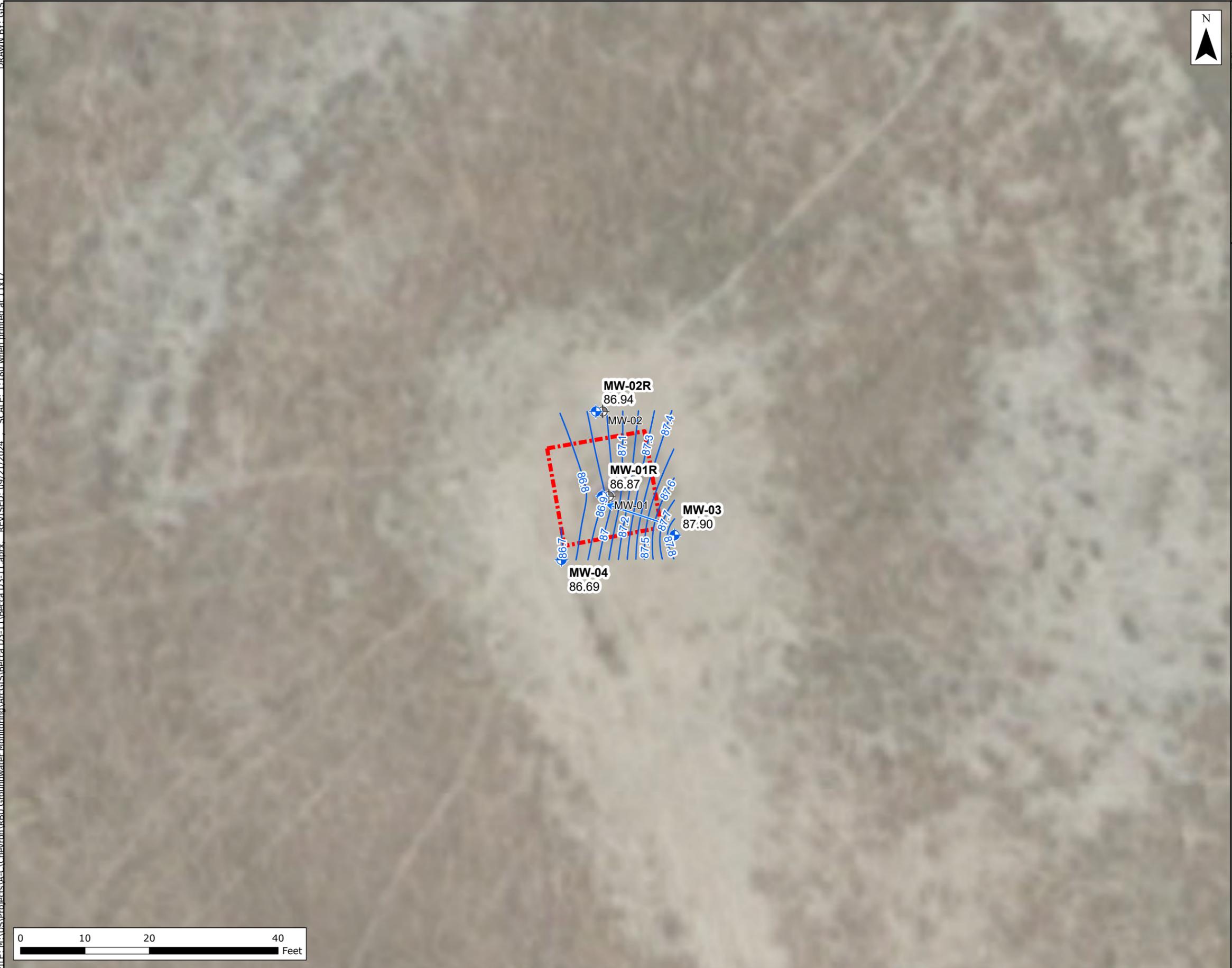
Notes:  
Groundwater elevation data was collected on 1/11/2024.

Elevation values are in feet.

Hydraulic Gradient (MW-03 to MW-04):  
0.0095 ft/ft

**Figure 4**  
**Groundwater Elevation Map**  
**Q1 2024**  
Becca D3-11  
Site Rem #22098  
Operator #100322  
40.2523°N, 104.5394°W





**Legend**

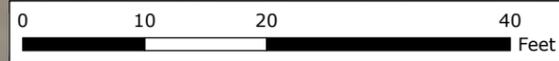
- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Groundwater Flow Direction
- Groundwater Elevation Contour (ft)
- 86.69 Relative Groundwater Elevation
- Excavated Area Boundary

Notes:  
Groundwater elevation data was collected on 4/10/2024.

Elevation values are in feet.

Hydraulic Gradient (MW-03 to MW-04): 0.067 ft/ft

**Figure 5**  
**Groundwater Elevation Map**  
**Q2 2024**  
Becca D3-11  
Site Rem #22098  
Operator #100322  
40.2523°N, 104.5394°W





**Legend**

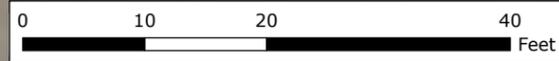
- Approximate Monitoring Well Location
- Destroyed Monitoring Well Location
- Groundwater Flow Direction
- Groundwater Elevation Contour (ft)
- 86.72 Relative Groundwater Elevation
- Excavated Area Boundary

Notes:  
Groundwater elevation data was collected on 7/18/2024.

Elevation values are in feet.

Hydraulic Gradient (MW-03 to MW-04): 0.066 ft/ft

**Figure 6**  
**Groundwater Elevation Map**  
**Q3 2024**  
Becca D3-11  
Site Rem #22098  
Operator #100322  
40.2523°N, 104.5394°W





January 22, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Becca #D 3-11**

**Project Number - [none]**

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. January 11, 2024. This project is associated with Origins project number Y401293-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y401293-01	Water	January 11, 2024 12:30	01/11/2024 17:03
MW-02R	Y401293-02	Water	January 11, 2024 12:40	01/11/2024 17:03
MW-03	Y401293-03	Water	January 11, 2024 12:45	01/11/2024 17:03
MW-04	Y401293-04	Water	January 11, 2024 12:55	01/11/2024 17:03

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 - Becca #D 3-11

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

**Sample Receipt Checklist**

Origins Work Order: 4401293 Client: Eagle  
 Client Project ID: Becca D 3-11  
 Checklist Completed by: EHS Shipped Via: HO  
 Date/time completed: 1/11/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)  
 Cooler Number/Temperature: 1/23 °C 1 °C 1 °C 1 °C  
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>NC</u>
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) [Signature]

Date/Time Reviewed 1/15/24

Origins Laboratory, Inc.

[Signature]

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-01R**

**1/11/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401293-01 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A1237	JSM	01/12/2024	01/14/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-02R**

**1/11/2024 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401293-02 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A1237	JSM	01/12/2024	01/14/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %	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 - Becca #D 3-11

**MW-03**

**1/11/2024 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401293-03 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A1237	JSM	01/12/2024	01/14/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-04**

**1/11/2024 12:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y401293-04 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A1237	JSM	01/12/2024	01/14/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	89.8 %	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 - Becca #D 3-11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B4A1237 - EPA 5030B (Water)**

**Blank (B4A1237-BLK1)**

Prepared: 01/12/2024 Analyzed: 01/14/2024

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5	95.1		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.6		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.3		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 - Becca #D 3-11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4A1237 - EPA 5030B (Water)

**LCS (B4A1237-BS1)**

Prepared: 01/12/2024 Analyzed: 01/14/2024

1,2,4-Trimethylbenzene	45.3	2.00	ug/L	50.0		90.6	70-130			
1,3,5-Trimethylbenzene	45.1	2.00	"	50.0		90.1	70-130			
Benzene	42.6	1.00	"	50.0		85.2	70-130			
Ethylbenzene	40.2	1.00	"	50.0		80.3	70-130			
m,p-Xylene	83.1	2.00	"	100		83.1	70-130			
Naphthalene	43.2	2.00	"	50.0		86.3	70-130			
o-Xylene	42.6	1.00	"	50.0		85.2	70-130			
Toluene	42.4	1.00	"	50.0		84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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 - Becca #D 3-11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4A1237 - EPA 5030B (Water)

Matrix Spike (B4A1237-MS1)	Source: Y401254-01			Prepared: 01/12/2024 Analyzed: 01/14/2024						
1,2,4-Trimethylbenzene	54.5	2.00	ug/L	50.0	0.490	108	70-130			
1,3,5-Trimethylbenzene	55.8	2.00	"	50.0	0.170	111	70-130			
Benzene	49.2	1.00	"	50.0	1.49	95.4	70-130			
Ethylbenzene	52.6	1.00	"	50.0	0.130	105	70-130			
m,p-Xylene	105	2.00	"	100	ND	105	70-130			
Naphthalene	61.4	2.00	"	50.0	0.260	122	70-130			
o-Xylene	53.9	1.00	"	50.0	0.190	107	70-130			
Toluene	50.1	1.00	"	50.0	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B4A1237 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B4A1237-MSD1)</b>	<b>Source: Y401254-01</b>			<b>Prepared: 01/12/2024 Analyzed: 01/14/2024</b>						
1,2,4-Trimethylbenzene	56.0	2.00	ug/L	50.0	0.490	111	70-130	2.75	20	
1,3,5-Trimethylbenzene	56.7	2.00	"	50.0	0.170	113	70-130	1.67	20	
Benzene	51.7	1.00	"	50.0	1.49	100	70-130	4.94	20	
Ethylbenzene	53.2	1.00	"	50.0	0.130	106	70-130	1.17	20	
m,p-Xylene	107	2.00	"	100	ND	107	70-130	2.15	20	
Naphthalene	70.2	2.00	"	50.0	0.260	140	70-130	13.5	20	QM-07
o-Xylene	56.6	1.00	"	50.0	0.190	113	70-130	4.93	20	
Toluene	52.8	1.00	"	50.0	ND	106	70-130	5.19	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.8	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Becca #D 3-11

---

### Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*



January 22, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Becca #D 3-11**

**Project Number - [none]**

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. January 11, 2024. This project is associated with Origins project number Y401294-01.

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 - Becca #D 3-11

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y401294-01	Water	January 11, 2024 12:30	01/11/2024 17:03
MW-02R	Y401294-02	Water	January 11, 2024 12:40	01/11/2024 17:03
MW-03	Y401294-03	Water	January 11, 2024 12:45	01/11/2024 17:03
MW-04	Y401294-04	Water	January 11, 2024 12:55	01/11/2024 17:03

#### Chain of Custody Replacement Request

On 1/12/2024, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y401294 requesting that the correct analyses be added to the chain of custody. Requested modifications to the chain of custody were made by Jordan Bynon on 1/12/2024 and modified chain of custody is included in the final report.

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 - Becca #D 3-11

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

**Sample Receipt Checklist**

Origins Work Order: 1401294 Client: Eagle  
 Client Project ID: Becca D 3-11  
 Checklist Completed by: EHS Shipped Via: HO  
 Date/time completed: 1/11/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1/23 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c  
 Thermometer ID: T004

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? If yes, contact client and note in narrative.		<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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/15/24

Origins Laboratory, Inc.  
[Signature]

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-01R**

**1/11/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401294-01 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A1601	Windo	01/16/2024	01/16/2024	U
2-Methylnaphthalene	<b>0.223</b>	0.200	"	"	"	Windo	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	99.8 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	84.8 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	92.9 %	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 - Becca #D 3-11

**MW-02R**

**1/11/2024 12:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401294-02 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A1601	Windo	01/16/2024	01/16/2024	U
2-Methylnaphthalene	<b>0.244</b>	0.200	"	"	"	Windo	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	98.8 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	85.3 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.1 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	93.1 %	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 - Becca #D 3-11

**MW-03**

**1/11/2024 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401294-03 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A1601	Windo	01/16/2024	01/16/2024	U
2-Methylnaphthalene	<b>0.217</b>	0.200	"	"	"	Windo	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	100 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	80.8 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	93.3 %	60-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-04**

**1/11/2024 12:55:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401294-04 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4A1601	Windo	01/16/2024	01/16/2024	U
2-Methylnaphthalene	<b>0.220</b>	0.200	"	"	"	Windo	"	"	
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	99.6 %	60-130			"	"	"	"	
Surrogate: Anthracene-d10	82.1 %	60-130			"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %	60-130			"	"	"	"	
Surrogate: Pyrene-d10	93.0 %	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 - Becca #D 3-11

**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 B4A1601 - EPA 3510C\_MS**

**Blank (B4A1601-BLK1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

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		99.1	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			

**LCS (B4A1601-BS1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

1-Methylnaphthalene	17.7	0.200	ug/L	20.0		88.4	70-130			
2-Methylnaphthalene	17.6	0.200	"	20.0		88.1	70-130			
Acenaphthene	16.1	2.00	"	20.0		80.6	70-130			
Anthracene	14.7	2.00	"	20.0		73.7	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4A1601 - EPA 3510C\_MS**

**LCS (B4A1601-BS1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

Benzo (a) anthracene	15.0	0.500	ug/L	20.0		74.8	70-130			
Benzo (a) pyrene	18.7	2.00	"	20.0		93.3	70-130			
Benzo (b) fluoranthene	19.0	2.00	"	20.0		94.9	70-130			
Benzo (g,h,i) perylene	19.2	2.00	"	20.0		96.2	70-130			
Benzo (k) fluoranthene	17.4	2.00	"	20.0		87.2	70-130			
Chrysene	16.3	2.00	"	20.0		81.3	70-130			
Dibenz (a,h) anthracene	19.1	2.00	"	20.0		95.6	70-130			
Fluoranthene	16.4	2.00	"	20.0		82.1	70-130			
Fluorene	14.7	2.00	"	20.0		73.7	70-130			
Indeno (1,2,3-cd) pyrene	18.0	2.00	"	20.0		90.1	70-130			
Naphthalene	17.1	0.200	"	20.0		85.6	70-130			
Phenanthrene	17.2	2.00	"	20.0		86.0	70-130			
Pyrene	15.3	2.00	"	20.0		76.4	70-130			
Surrogate: Fluorene-d10	200		"	200		97.7	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			

**LCS Dup (B4A1601-BSD1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

1-Methylnaphthalene	19.3	0.200	ug/L	20.0		96.6	70-130	8.78	20	
2-Methylnaphthalene	19.0	0.200	"	20.0		95.0	70-130	7.53	20	
Acenaphthene	17.4	2.00	"	20.0		87.0	70-130	7.56	20	
Anthracene	15.4	2.00	"	20.0		77.1	70-130	4.60	20	
Benzo (a) anthracene	16.3	0.500	"	20.0		81.4	70-130	8.46	20	
Benzo (a) pyrene	18.1	2.00	"	20.0		90.4	70-130	3.19	20	
Benzo (b) fluoranthene	20.9	2.00	"	20.0		105	70-130	9.76	20	
Benzo (g,h,i) perylene	21.3	2.00	"	20.0		107	70-130	10.4	20	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4A1601 - EPA 3510C\_MS**

**LCS Dup (B4A1601-BSD1)**

Prepared: 01/16/2024 Analyzed: 01/16/2024

Benzo (k) fluoranthene	19.7	2.00	ug/L	20.0		98.5	70-130	12.2	20	
Chrysene	18.8	2.00	"	20.0		93.8	70-130	14.3	20	
Dibenz (a,h) anthracene	21.1	2.00	"	20.0		105	70-130	9.69	20	
Fluoranthene	18.3	2.00	"	20.0		91.4	70-130	10.7	20	
Fluorene	16.4	2.00	"	20.0		82.1	70-130	10.7	20	
Indeno (1,2,3-cd) pyrene	19.9	2.00	"	20.0		99.3	70-130	9.75	20	
Naphthalene	19.1	0.200	"	20.0		95.4	70-130	10.8	20	
Phenanthrene	18.9	2.00	"	20.0		94.6	70-130	9.44	20	
Pyrene	16.6	2.00	"	20.0		82.8	70-130	7.99	20	
Surrogate: Fluorene-d10	200		"	200		98.1	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	180		"	200		91.4	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 - Becca #D 3-11

---

**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.*



April 22, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. April 10, 2024. This project is associated with Origins project number Y404296-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y404296-01	Water	April 10, 2024 12:00	04/10/2024 14:28
MW-02R	Y404296-02	Water	April 10, 2024 12:10	04/10/2024 14:28
MW-03	Y404296-03	Water	April 10, 2024 12:20	04/10/2024 14:28
MW-04	Y404296-04	Water	April 10, 2024 12:30	04/10/2024 14:28

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 - Becca #D 3-11



44042916

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303.433.8479  
 Email Address: [anewberry@eagle-enviro.com](mailto:anewberry@eagle-enviro.com)

Project Manager: Andrew Newberry  
 Project Name: Becca #D3-11  
 Project Number:  
 Samples Collected By: ZM

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211

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 #			
MW-01R	4/10/24	1200	3	Y				X				1	
MW-02R		1210										2	
MW-03		1220										3	
MW-04		1230										4	
												5	
												6	
												7	
												8	
												9	
												10	

Relinquished By: *[Signature]* Date: 4/10/24 Time: 1428  
 Relinquished By: *[Signature]* Date: 4/10/24 Time: 1428

Received By: *[Signature]* Date: 4/10/24 Time: 1428  
 Received By: *[Signature]* Date: 4/10/24 Time: 1428

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

Temp Received: 2.7 Date Results Needed: Noble  
*[Signature]*

Origins Laboratory, Inc.  
*[Signature]*

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

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

**Sample Receipt Checklist**

Origins Work Order: 4404290 Client: Eagle  
 Client Project ID: Becca #D 3-11

Checklist Completed by: JBN/AN Shipped Via: HD  
 Date/time completed: 4/10/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1, 27.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 7004 7005

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 analysis 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: JBN (Project Manager) Date/Time Reviewed: 4/12/24

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 - Becca #D 3-11

**MW-01R**

**4/10/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404296-01 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4D1613	Windo	04/16/2024	04/16/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
<i>Surrogate: Fluorene-d10</i>	98.2 %	60-130				"	"	"	
<i>Surrogate: Anthracene-d10</i>	109 %	60-130				"	"	"	
<i>Surrogate: Benzo (a) pyrene-d12</i>	90.1 %	60-130				"	"	"	
<i>Surrogate: Pyrene-d10</i>	91.6 %	60-130				"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-02R**

**4/10/2024 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404296-02 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4D1613	Windo	04/16/2024	04/16/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	97.1 %	60-130				"	"	"	
Surrogate: Anthracene-d10	101 %	60-130				"	"	"	
Surrogate: Benzo (a) pyrene-d12	90.1 %	60-130				"	"	"	
Surrogate: Pyrene-d10	93.0 %	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 - Becca #D 3-11

**MW-03**

**4/10/2024 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404296-03 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4D1613	Windo	04/16/2024	04/16/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	97.1 %	60-130				"	"	"	
Surrogate: Anthracene-d10	103 %	60-130				"	"	"	
Surrogate: Benzo (a) pyrene-d12	86.4 %	60-130				"	"	"	
Surrogate: Pyrene-d10	92.5 %	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 - Becca #D 3-11

**MW-04**

**4/10/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404296-04 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4D1613	Windo	04/16/2024	04/16/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.500	"	"	"	Windo	"	"	U
Surrogate: Fluorene-d10	97.1 %	60-130				"	"	"	
Surrogate: Anthracene-d10	106 %	60-130				"	"	"	
Surrogate: Benzo (a) pyrene-d12	87.9 %	60-130				"	"	"	
Surrogate: Pyrene-d10	101 %	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 - Becca #D 3-11

**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 B4D1613 - EPA 3510C\_MS**

**Blank (B4D1613-BLK1)**

Prepared: 04/16/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	ND	0.200	ug/L							U
2-Methylnaphthalene	ND	0.200	"							U
Acenaphthene	ND	2.00	"							U
Anthracene	ND	2.00	"							U
Benzo (a) anthracene	ND	0.500	"							U
Benzo (a) pyrene	ND	2.00	"							U
Benzo (b) fluoranthene	ND	2.00	"							U
Benzo (g,h,i) perylene	ND	2.00	"							U
Benzo (k) fluoranthene	ND	2.00	"							U
Chrysene	ND	2.00	"							U
Dibenz (a,h) anthracene	ND	2.00	"							U
Fluoranthene	ND	2.00	"							U
Fluorene	ND	2.00	"							U
Indeno (1,2,3-cd) pyrene	ND	2.00	"							U
Naphthalene	ND	0.200	"							U
Phenanthrene	ND	2.00	"							U
Pyrene	ND	2.00	"							U
Surrogate: Fluorene-d10	200		"	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		92.5	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		88.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			

**LCS (B4D1613-BS1)**

Prepared: 04/16/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	17.1	0.200	ug/L	20.0		85.3	70-130			
2-Methylnaphthalene	17.1	0.200	"	20.0		85.5	70-130			
Acenaphthene	17.3	2.00	"	20.0		86.6	70-130			
Anthracene	17.5	2.00	"	20.0		87.6	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 - Becca #D 3-11

**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 B4D1613 - EPA 3510C\_MS**

**LCS (B4D1613-BS1)**

Prepared: 04/16/2024 Analyzed: 04/16/2024

Benzo (a) anthracene	17.2	0.500	ug/L	20.0		86.2	70-130			
Benzo (a) pyrene	18.3	2.00	"	20.0		91.3	70-130			
Benzo (b) fluoranthene	18.3	2.00	"	20.0		91.6	70-130			
Benzo (g,h,i) perylene	19.3	2.00	"	20.0		96.6	70-130			
Benzo (k) fluoranthene	18.4	2.00	"	20.0		91.8	70-130			
Chrysene	16.0	2.00	"	20.0		80.2	70-130			
Dibenz (a,h) anthracene	15.4	2.00	"	20.0		77.1	70-130			
Fluoranthene	18.5	2.00	"	20.0		92.5	70-130			
Fluorene	17.2	2.00	"	20.0		85.9	70-130			
Indeno (1,2,3-cd) pyrene	21.3	2.00	"	20.0		106	70-130			
Naphthalene	17.1	0.200	"	20.0		85.7	70-130			
Phenanthrene	17.4	2.00	"	20.0		87.1	70-130			
Pyrene	16.0	2.00	"	20.0		79.9	70-130			
Surrogate: Fluorene-d10	200		"	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			

**LCS Dup (B4D1613-BSD1)**

Prepared: 04/16/2024 Analyzed: 04/16/2024

1-Methylnaphthalene	18.0	0.200	ug/L	20.0		90.2	70-130	5.54	20	
2-Methylnaphthalene	17.8	0.200	"	20.0		88.8	70-130	3.83	20	
Acenaphthene	17.9	2.00	"	20.0		89.7	70-130	3.55	20	
Anthracene	16.0	2.00	"	20.0		80.1	70-130	8.92	20	
Benzo (a) anthracene	19.4	0.500	"	20.0		97.0	70-130	11.7	20	
Benzo (a) pyrene	18.5	2.00	"	20.0		92.7	70-130	1.42	20	
Benzo (b) fluoranthene	18.4	2.00	"	20.0		91.9	70-130	0.355	20	
Benzo (g,h,i) perylene	19.4	2.00	"	20.0		97.0	70-130	0.379	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 - Becca #D 3-11

**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 B4D1613 - EPA 3510C\_MS**

**LCS Dup (B4D1613-BSD1)**

Prepared: 04/16/2024 Analyzed: 04/16/2024

Benzo (k) fluoranthene	18.8	2.00	ug/L	20.0		94.2	70-130	2.54	20	
Chrysene	17.2	2.00	"	20.0		86.0	70-130	6.89	20	
Dibenz (a,h) anthracene	15.5	2.00	"	20.0		77.5	70-130	0.537	20	
Fluoranthene	19.4	2.00	"	20.0		97.0	70-130	4.81	20	
Fluorene	17.5	2.00	"	20.0		87.4	70-130	1.66	20	
Indeno (1,2,3-cd) pyrene	21.2	2.00	"	20.0		106	70-130	0.222	20	
Naphthalene	18.2	0.200	"	20.0		90.8	70-130	5.80	20	
Phenanthrene	18.0	2.00	"	20.0		90.2	70-130	3.57	20	
Pyrene	17.1	2.00	"	20.0		85.5	70-130	6.77	20	
Surrogate: Fluorene-d10	200		"	200		98.7	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	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 - Becca #D 3-11

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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.*



April 22, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. April 10, 2024. This project is associated with Origins project number Y404294-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y404294-01	Water	April 10, 2024 12:00	04/10/2024 14:28
MW-02R	Y404294-02	Water	April 10, 2024 12:10	04/10/2024 14:28
MW-03	Y404294-03	Water	April 10, 2024 12:20	04/10/2024 14:28
MW-04	Y404294-04	Water	April 10, 2024 12:30	04/10/2024 14:28

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 - Becca #D 3-11

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page 1 of 1

4404214

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
 Wheat Ridge, CO 80033  
 Telephone Number: 303.433.0479  
 Email Address: eagleenviro.com

Project Manager: Andrew Newberry  
 Project Name: Becca #D3-11  
 Project Number:  
 Samples Collected By: ZM

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	Other	Other				
MW-01R	4/10/24	12:00	3	X			X									
MW-02R		12:10														
MW-03		12:20														
MW-04		12:00														

Relinquished By: [Signature] Date: 4/10/24 Time: 1428  
 Relinquished By: [Signature] Date: 4/10/24 Time: 1428

Received By: [Signature] Date: 4/10/24 Time: 1428  
 Received By: [Signature] Date: 4/10/24 Time: 1428

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

Temp Received: 2.7 Date Results Needed: Noble

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

Origins Laboratory, Inc.

*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 - Becca #D 3-11

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 440-1294 Client: Eagle  
 Checklist Completed by: JAN 1/24 Client Project ID: Becca #03-11  
 Date/time completed: 4/10/24 Shipped Via: TLB  
 (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 12.7°C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 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? <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)	/			NG
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) JAN

Date/Time Reviewed 4/12/24

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 - Becca #D 3-11

**MW-01R**

**4/10/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y404294-01 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D1054	JSM	04/10/2024	04/12/2024	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	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-02R**

**4/10/2024 12:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404294-02 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D1054	JSM	04/10/2024	04/12/2024	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	107 %	70-130			"	"	"	"
Surrogate: Toluene-d8	99.6 %	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 - Becca #D 3-11

**MW-03**

**4/10/2024 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y404294-03 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D1054	JSM	04/10/2024	04/12/2024	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	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**MW-04**

**4/10/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404294-04 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D1054	JSM	04/10/2024	04/12/2024	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	107 %	70-130			"	"	"	"
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	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 - Becca #D 3-11

**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 B4D1054 - EPA 5030B (Water)**

**Blank (B4D1054-BLK1)**

Prepared: 04/10/2024 Analyzed: 04/11/2024

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	64		"	62.5	102		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 - Becca #D 3-11

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B4D1054 - EPA 5030B (Water)**

**LCS (B4D1054-BS1)**

Prepared: 04/10/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	51.0	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	50.5	2.00	"	50.0		101	70-130			
Benzene	50.2	1.00	"	50.0		100	70-130			
Ethylbenzene	52.1	1.00	"	50.0		104	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	50.7	2.00	"	50.0		101	70-130			
o-Xylene	51.8	1.00	"	50.0		104	70-130			
Toluene	49.1	1.00	"	50.0		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4D1054 - EPA 5030B (Water)

Matrix Spike (B4D1054-MS1)	Source: Y404268-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	53.7	2.00	ug/L	50.0	ND	107	70-130			
1,3,5-Trimethylbenzene	54.6	2.00	"	50.0	ND	109	70-130			
Benzene	59.5	1.00	"	50.0	3.64	112	70-130			
Ethylbenzene	56.3	1.00	"	50.0	ND	113	70-130			
m,p-Xylene	111	2.00	"	100	ND	111	70-130			
Naphthalene	58.2	2.00	"	50.0	5.11	106	70-130			
o-Xylene	55.2	1.00	"	50.0	0.210	110	70-130			
Toluene	52.4	1.00	"	50.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4D1054 - EPA 5030B (Water)**

Matrix Spike Dup (B4D1054-MSD1)	Source: Y404268-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	49.6	2.00	ug/L	50.0	ND	99.1	70-130	7.96	20	
1,3,5-Trimethylbenzene	49.9	2.00	"	50.0	ND	99.8	70-130	8.88	20	
Benzene	54.7	1.00	"	50.0	3.64	102	70-130	8.48	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	70-130	9.91	20	
m,p-Xylene	101	2.00	"	100	ND	101	70-130	9.42	20	
Naphthalene	56.3	2.00	"	50.0	5.11	102	70-130	3.23	20	
o-Xylene	50.6	1.00	"	50.0	0.210	101	70-130	8.71	20	
Toluene	48.6	1.00	"	50.0	ND	97.3	70-130	7.44	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	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 - Becca #D 3-11

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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.*



July 25, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. July 18, 2024. This project is associated with Origins project number Y407511-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y407511-01	Water	July 18, 2024 11:05	07/18/2024 16:49
MW-02R	Y407511-02	Water	July 18, 2024 11:35	07/18/2024 16:49
MW-03	Y407511-03	Water	July 18, 2024 11:25	07/18/2024 16:49
MW-04	Y407511-04	Water	July 18, 2024 11:15	07/18/2024 16:49

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 - Becca #D 3-11

LABORATORY INC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

Wheat Ridge CO 80033

Telephone Number: 303-493-0479

Email Address: andrew@eagle-consult.com

Project Manager: Andrew Newberry

Project Name: Becca #D 3-11

Project Number: [blank]

Collected By: RS

Invoice/Billing Info: Noble / Bill to Dm

S=Soil | SC=Solid | O=Oil | A=Air | G=Gas | U=Urges | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis			Comments
							BTEX	VOCs	TPH	
1	MW-01R	7/8/24	1105	3	AW	HCL	X	X	X	
2	MW-02R		1135							
3	MW-03		1125							
4	MW-04		1115							
5										
6										
7										
8										
9										
10										

Relinquished By: [Signature] Date: 7/8/24 Time: 1649  
 Received By: [Signature] Date: 7/10/24 Time: 1110

Temp Received:  Received On Ice?  Yes  No

Turnaround Time:  SAME DAY  24 Hr  48 Hr  72 Hr

Standard

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory, Inc.

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

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

**Sample Receipt Checklist**

Origins Work Order: 4407511 Client: Eagle  
 Checklist Completed by: JHO Client Project ID: Becca D 3-11  
 Date/time completed: 7/18/24 Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 1005

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 bubbles) present? If yes, contact client and note in narrative.	<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"/>			PC
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) JHO

7/22/24  
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 - Becca #D 3-11

**MW-01R**

**7/18/2024 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407511-01 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G2102	HKS	07/21/2024	07/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130				"	"	"	
Surrogate: Toluene-d8	95.3 %	70-130				"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 - Becca #D 3-11

**MW-02R**

**7/18/2024 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407511-02 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G2102	HKS	07/21/2024	07/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 - Becca #D 3-11

**MW-03**

**7/18/2024 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407511-03 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G2102	HKS	07/21/2024	07/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.9 %	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 - Becca #D 3-11

**MW-04**

**7/18/2024 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407511-04 (Water)**

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

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4G2102	HKS	07/21/2024	07/21/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	HKS	"	"	U
Benzene	ND	1.00	"	"	"	HKS	"	"	U
Ethylbenzene	ND	1.00	"	"	"	HKS	"	"	U
Naphthalene	ND	2.00	"	"	"	HKS	"	"	U
Toluene	ND	1.00	"	"	"	HKS	"	"	U
Xylenes, total	ND	1.00	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 - Becca #D 3-11

**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 B4G2102 - EPA 5030B (Water)**

**Blank (B4G2102-BLK1)**

Prepared: 07/21/2024 Analyzed: 07/21/2024

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	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		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 - Becca #D 3-11

**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 B4G2102 - EPA 5030B (Water)**

**LCS (B4G2102-BS1)**

Prepared: 07/21/2024 Analyzed: 07/21/2024

1,2,4-Trimethylbenzene	49.1	2.00	ug/L	50.0		98.2	70-130			
1,3,5-Trimethylbenzene	49.6	2.00	"	50.0		99.3	70-130			
Benzene	48.6	1.00	"	50.0		97.2	70-130			
Ethylbenzene	47.8	1.00	"	50.0		95.6	70-130			
m,p-Xylene	94.2	2.00	"	100		94.2	70-130			
Naphthalene	50.2	2.00	"	50.0		100	70-130			
o-Xylene	48.5	1.00	"	50.0		97.0	70-130			
Toluene	47.0	1.00	"	50.0		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4G2102 - EPA 5030B (Water)

Matrix Spike (B4G2102-MS1)	Source: Y407462-13			Prepared: 07/21/2024 Analyzed: 07/21/2024						
1,2,4-Trimethylbenzene	50.6	2.00	ug/L	50.0	ND	101	70-130			
1,3,5-Trimethylbenzene	51.2	2.00	"	50.0	ND	102	70-130			
Benzene	48.6	1.00	"	50.0	ND	97.2	70-130			
Ethylbenzene	49.1	1.00	"	50.0	ND	98.2	70-130			
m,p-Xylene	96.8	2.00	"	100	ND	96.8	70-130			
Naphthalene	54.6	2.00	"	50.0	ND	109	70-130			
o-Xylene	49.9	1.00	"	50.0	ND	99.9	70-130			
Toluene	48.8	1.00	"	50.0	ND	97.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4G2102 - EPA 5030B (Water)**

<b>Matrix Spike Dup (B4G2102-MSD1)</b>	<b>Source: Y407462-13</b>			<b>Prepared: 07/21/2024 Analyzed: 07/21/2024</b>						
1,2,4-Trimethylbenzene	57.6	2.00	ug/L	50.0	ND	115	70-130	13.0	20	
1,3,5-Trimethylbenzene	58.8	2.00	"	50.0	ND	118	70-130	13.9	20	
Benzene	55.8	1.00	"	50.0	ND	112	70-130	13.8	20	
Ethylbenzene	55.7	1.00	"	50.0	ND	111	70-130	12.5	20	
m,p-Xylene	110	2.00	"	100	ND	110	70-130	12.5	20	
Naphthalene	63.8	2.00	"	50.0	ND	128	70-130	15.6	20	
o-Xylene	57.2	1.00	"	50.0	ND	114	70-130	13.5	20	
Toluene	55.7	1.00	"	50.0	ND	111	70-130	13.1	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Becca #D 3-11

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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.



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July 25, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. July 18, 2024. This project is associated with Origins project number Y407510-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y407510-01	Water	July 18, 2024 11:05	07/18/2024 16:49
MW-02R	Y407510-02	Water	July 18, 2024 11:35	07/18/2024 16:49
MW-03	Y407510-03	Water	July 18, 2024 11:25	07/18/2024 16:49
MW-04	Y407510-04	Water	July 18, 2024 11:15	07/18/2024 16:49

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 - Becca #D 3-11

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033

Project Manager: Andrew Newberry  
 Project Name: Becca #D 3-11  
 W=Water  
 GW=Groundwater

Telephone Number: 303-433-0479  
 Email Address: anewberry@eagle-env.com

Collected By: RS  
 Invoice/Billing Info: Mobile / Bill to Dnd  
 W=M-Waste Water  
 L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | U=Urine | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservation	Analysis		Comments
						1-methylnaphthalene 1-62 TO 500	2-methylnaphthalene 1-62 TO 500	
1	MW-01R	7/8/14	1105	3	GC	X	X	
2	MW-02R		1135					
3	MW-03		1125					
4	MW-04		1115					
5								
6								
7								
8								
9								
10								

Requisitioned By: [Signature] Date: 7/8/14 Time: 1649  
 Received By: [Signature] Date: 7/16/14 Time: 1449  
 Turnaround Time:  48 Hr  72 Hr  SAME DAY  24 Hr

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 - Becca #D 3-11

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

**Sample Receipt Checklist**

Origins Work Order: M07510 Client: Eagle  
 Client Project ID: Becca D 3-11

Checklist Completed by: ZHO Shipped Via: HO  
 Date/time completed: 7/18/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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? If yes, contact client and note in narrative.	<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.

Reviewed by (Project Manager) AJ

7/22/24  
Date/Time Reviewed

Origins Laboratory, Inc.

*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 - Becca #D 3-11

**MW-01R**

**7/18/2024 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407510-01 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4G2325	agile	07/23/2024	07/23/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	99.0 %	60-130			"	"		"	
Surrogate: Anthracene-d10	84.4 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"	"		"	
Surrogate: Pyrene-d10	109 %	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 - Becca #D 3-11

**MW-02R**

**7/18/2024 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407510-02 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4G2325	agile	07/23/2024	07/23/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	97.2 %	60-130			"	"		"	
Surrogate: Anthracene-d10	86.9 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"	"		"	
Surrogate: Pyrene-d10	112 %	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 - Becca #D 3-11

**MW-03**

**7/18/2024 11:25:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407510-03 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4G2325	agile	07/23/2024	07/23/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	103 %	60-130			"	"		"	
Surrogate: Anthracene-d10	85.3 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.5 %	60-130			"	"		"	
Surrogate: Pyrene-d10	98.5 %	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 - Becca #D 3-11

**MW-04**

**7/18/2024 11:15:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y407510-04 (Water)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.200	ug/L	1	B4G2325	agile	07/23/2024	07/23/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U
Surrogate: Fluorene-d10	108 %	60-130			"	"		"	
Surrogate: Anthracene-d10	86.8 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"	"		"	
Surrogate: Pyrene-d10	104 %	60-130			"	"		"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Becca #D 3-11

**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 B4G2325 - EPA 3510C\_MS**

**Blank (B4G2325-BLK1)**

Prepared: 07/23/2024 Analyzed: 07/23/2024

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		100	60-130			
Surrogate: Anthracene-d10	170		"	200		86.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			

**LCS (B4G2325-BS1)**

Prepared: 07/23/2024 Analyzed: 07/23/2024

1-Methylnaphthalene	18.9	0.200	ug/L	20.0		94.7	70-130			
2-Methylnaphthalene	18.8	0.200	"	20.0		93.9	70-130			
Acenaphthene	19.9	2.00	"	20.0		99.4	70-130			
Anthracene	16.9	2.00	"	20.0		84.6	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 - Becca #D 3-11

**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 B4G2325 - EPA 3510C\_MS**

**LCS (B4G2325-BS1)**

Prepared: 07/23/2024 Analyzed: 07/23/2024

Benzo (a) anthracene	18.9	0.500	ug/L	20.0		94.5	70-130			
Benzo (a) pyrene	19.0	2.00	"	20.0		94.9	70-130			
Benzo (b) fluoranthene	22.1	2.00	"	20.0		111	70-130			
Benzo (g,h,i) perylene	20.5	2.00	"	20.0		102	70-130			
Benzo (k) fluoranthene	18.3	2.00	"	20.0		91.5	70-130			
Chrysene	19.8	2.00	"	20.0		99.1	70-130			
Dibenz (a,h) anthracene	23.4	2.00	"	20.0		117	70-130			
Fluoranthene	20.4	2.00	"	20.0		102	70-130			
Fluorene	20.2	2.00	"	20.0		101	70-130			
Indeno (1,2,3-cd) pyrene	20.8	2.00	"	20.0		104	70-130			
Naphthalene	19.9	0.200	"	20.0		99.4	70-130			
Phenanthrene	21.7	2.00	"	20.0		108	70-130			
Pyrene	20.6	2.00	"	20.0		103	70-130			
Surrogate: Fluorene-d10	210		"	200		103	60-130			
Surrogate: Anthracene-d10	180		"	200		88.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

**LCS Dup (B4G2325-BSD1)**

Prepared: 07/23/2024 Analyzed: 07/23/2024

1-Methylnaphthalene	18.4	0.200	ug/L	20.0		91.8	70-130	3.17	20	
2-Methylnaphthalene	18.9	0.200	"	20.0		94.4	70-130	0.500	20	
Acenaphthene	20.3	2.00	"	20.0		101	70-130	1.94	20	
Anthracene	16.1	2.00	"	20.0		80.5	70-130	4.90	20	
Benzo (a) anthracene	17.0	0.500	"	20.0		85.1	70-130	10.5	20	
Benzo (a) pyrene	18.5	2.00	"	20.0		92.4	70-130	2.57	20	
Benzo (b) fluoranthene	23.7	2.00	"	20.0		118	70-130	6.94	20	
Benzo (g,h,i) perylene	22.0	2.00	"	20.0		110	70-130	7.24	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 - Becca #D 3-11

**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 B4G2325 - EPA 3510C\_MS**

**LCS Dup (B4G2325-BSD1)**

Prepared: 07/23/2024 Analyzed: 07/23/2024

Benzo (k) fluoranthene	21.3	2.00	ug/L	20.0		107	70-130	15.4	20	
Chrysene	19.1	2.00	"	20.0		95.4	70-130	3.72	20	
Dibenz (a,h) anthracene	24.1	2.00	"	20.0		120	70-130	3.04	20	
Fluoranthene	18.7	2.00	"	20.0		93.3	70-130	9.07	20	
Fluorene	20.0	2.00	"	20.0		99.8	70-130	1.42	20	
Indeno (1,2,3-cd) pyrene	22.1	2.00	"	20.0		110	70-130	6.23	20	
Naphthalene	20.1	0.200	"	20.0		101	70-130	1.23	20	
Phenanthrene	21.4	2.00	"	20.0		107	70-130	1.14	20	
Pyrene	19.1	2.00	"	20.0		95.3	70-130	7.76	20	
Surrogate: Fluorene-d10	200		"	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		85.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	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 - Becca #D 3-11

---

**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.*