



## **FIGURES**

**Figure 1: Topographic Site Location Map**

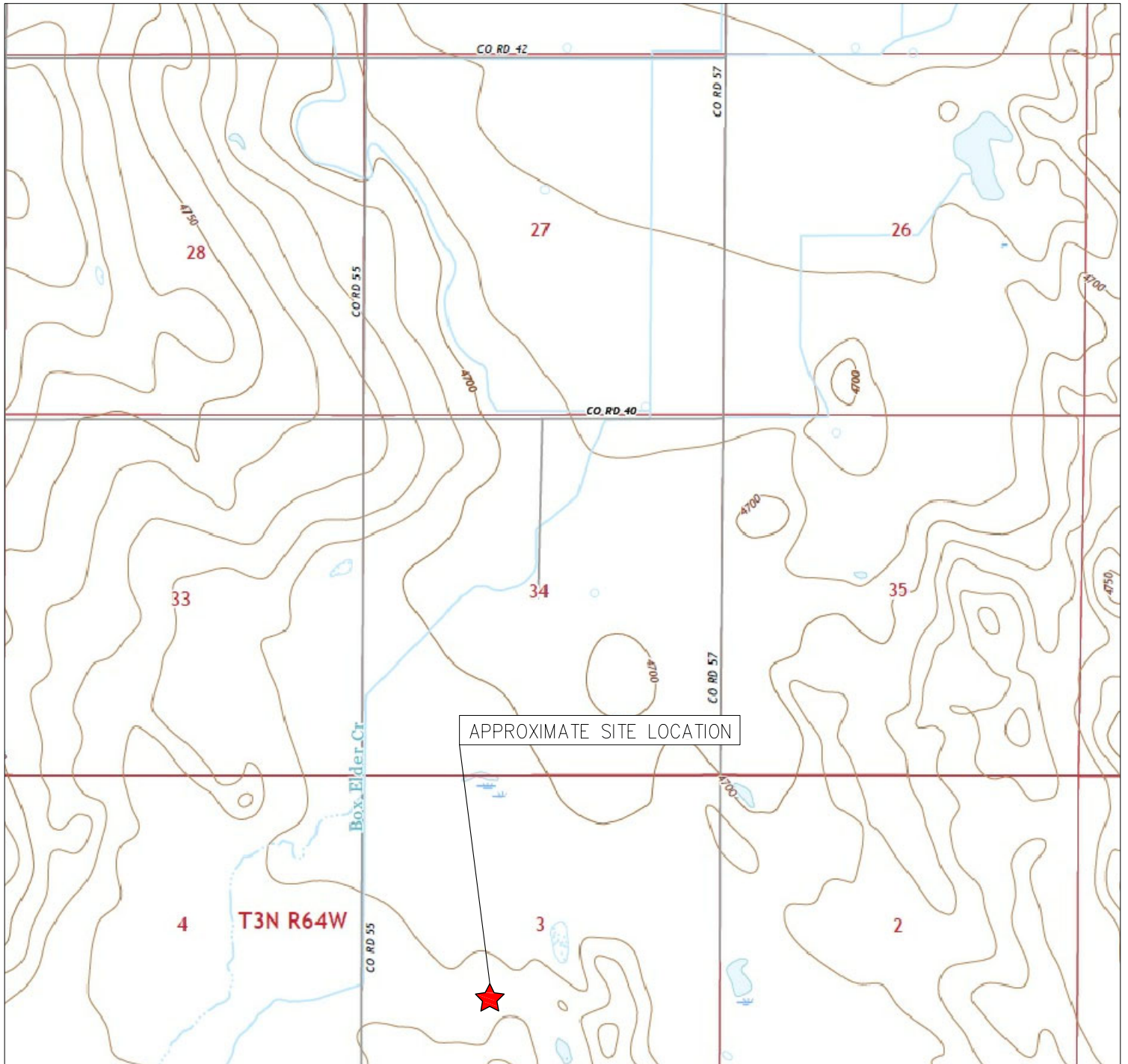
**Figure 2: Aerial Site Location Map**

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

**Figure 4: Monitoring Well Polycyclic Aromatic Hydrocarbons (PAH) Map**

**Figure 5: Groundwater Analytical Map (10/25/22)**

**Figure 6: Groundwater Elevation Map (10/25/22)**



TOPOGRAPHIC SITE LOCATION MAP  
 BECCA #D 3-11  
 HISTORICAL RELEASE  
 40.252420 / -104.539510  
 NE¼ SW¼ SEC.3 T3N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17286  
 REMEDIATION # 22098



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033  
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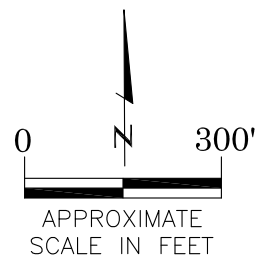
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP  
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE 1



# LEGEND

- FORMER BECCA #D 3-11 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



## AERIAL SITE LOCATION MAP

BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDATION # 22098

FIGURE NO.

2

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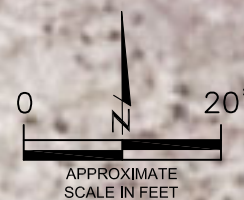
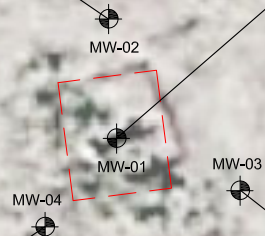
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MW-02@7.5-10'  
10/21/22  
7.5-10'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-01@10-13.5'  
10/21/22  
10-13.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 146  
D = 160  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-04@7.5-10'  
10/21/22  
7.5-10'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-03@10-13.5'  
10/21/22  
10-13.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200



#### LEGEND

— INITIAL ASSESSMENT BOUNDARIES

⊙ APPROXIMATE MONITORING WELL LOCATIONS

#### PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

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

#### NOTES:

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION  
COMMISSION

#### MONITORING WELL SOIL ANALYTICAL MAP

BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDIATION # 22098

FIGURE NO.  
3

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# LEGEND

— INITIAL ASSESSMENT BOUNDARIES



APPROXIMATE MONITORING WELL LOCATIONS

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

## NOTES:

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

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

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

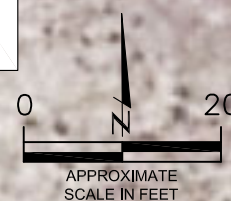
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

MW-02@7.5-10'  
10/21/22  
7.5-10'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

MW-01@10-13.5'  
10/21/22  
10-13.5'  
ND = <0.0335  
1-Methylnaphthalene = **<0.0335\***  
2-Methylnaphthalene = **<0.0335\***  
Acenaphthene = 0.0621  
Anthracene = ND  
Benzo(a)anthracene = **<0.0335\***  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0585  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.0223  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **<0.0335\***  
Pyrene = ND

MW-04@7.5-10'  
10/21/22  
7.5-10'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

MW-03@10-13.5'  
10/21/22  
10-13.5'  
ND = <0.00067  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND



## MONITORING WELL PAH ANALYTICAL MAP

BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDIATION # 22098

FIGURE NO.  
4

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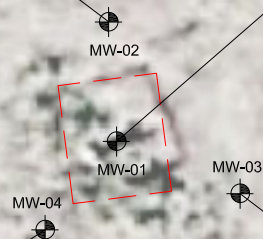
**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC.  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

MW-02  
10/25/22  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
1-Methylnaphthalene = 0.0411  
C = 87.3  
S = 914  
TDS= 1590

MW-01  
10/25/22  
B = <1.00  
T = <1.00  
E = 3.78  
X = 52.6  
N = 32.2  
1,2,4-TMB = **782**  
1,3,5-TMB = **387**  
1-Methylnaphthalene = **154**  
C = 89.9  
S = 914  
TDS= 1600

MW-04  
10/25/22  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
1-Methylnaphthalene = 0.1  
C = 83.2  
S = 922  
TDS= 1570

MW-03  
10/25/22  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
1-Methylnaphthalene = 0.1  
C = 88.1  
S = 926  
TDS= 1530



# LEGEND

— INITIAL ASSESSMENT BOUNDARIES

⊙ APPROXIMATE MONITORING WELL LOCATIONS

## PARAMETERS

### GROUNDWATER SAMPLE LOCATION

DATE

B = BENZENE (µg/L)

T = TOLUENE (µg/L)

E = ETHYLBENZENE (µg/L)

X = TOTAL XYLENES (µg/L)

N = NAPHTHALENE (µg/L)

1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)

1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)

1-METHYLNAPHTHALENE (µg/L)

C = CHLORIDE (mg/L)

S = SULFATE (mg/L)

TDS = TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER

mg/L = MICROGRAMS PER LITER

### NOTES:

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

THE INORGANIC GROUNDWATER PARAMETERS IN MW-03 AND MW-04 WERE USED IN THE DETERMINATION OF LOCAL BACKGROUND LEVELS AT THE SITE.

VALUES PRESENTED IN **BOLD** EXCEEDED THE COGCC TABLE 915-1 REGULATORY LIMITS AND/OR COGCC NARRATIVE GROUNDWATER QUALITY STANDARDS\*.

\*COGCC REGULATORY LIMITS IN GROUNDWATER HAVE NOT BEEN ESTABLISHED FOR 1-METHYLNAPHTHALENE. COGCC IMPLEMENTS A NARRATIVE GROUNDWATER QUALITY STANDARD TAKEN FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL SCREENING LEVELS (RSLs) FOR TAPWATER, AS INCORPORATED BY REFERENCE IN RULE 901.B, TABLES FOR TARGET RISK ("TR")=1x10<sup>-6</sup> AND TARGET HAZARD QUOTIENT ("THQ")=0.1. THE EPA RSL FOR TAPWATER, AND RESULTANT NARRATIVE GROUNDWATER QUALITY STANDARD FOR 1-METHYLNAPHTHALENE IS 1.1 µg/L.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

### GROUNDWATER ANALYTICAL MAP

(10/25/22)

BECCA #D 3-11

HISTORICAL RELEASE

40.252420 / -104.539510

NE¼ SW¼ SEC.3 T3N R64W 6PM

WELD COUNTY, COLORADO

API # 05-123-17286

REMEDATION # 22098

FIGURE NO.

5

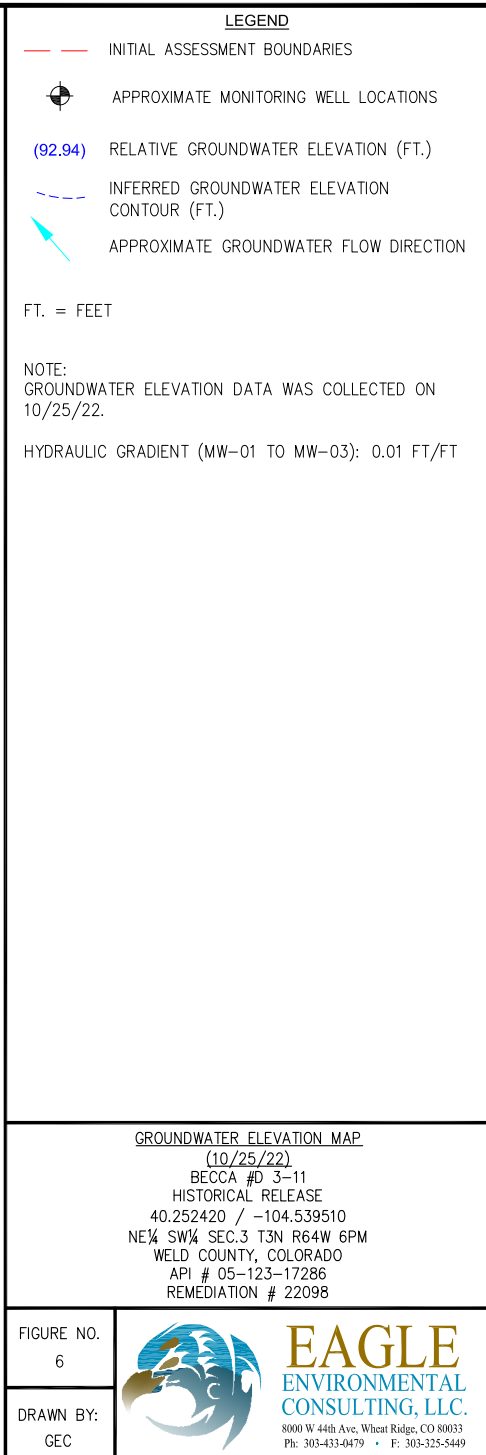
DRAWN BY:

GEC



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Ph: 303-433-0479 • F: 303-325-5449





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**Table 4: Groundwater Analytical Results Summary**

**Table 5: Inorganic Groundwater Parameters Summary**

**Table 6: Dissolved PAH Analytical Results Summary**

**Table 7: Groundwater Elevation Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**BECCA #D 3-11**  
**HISTORICAL RELEASE**  
**40.252420 / -104.539510**  
**NE¼ SW¼ SEC.3 T3N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-17286**  
**REMEDIAION # 22098**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.252421 / -104.539527)	04/15/22	6	8.3	N
WH-SS-02 @ 6' (40.252420 / -104.539508)	04/15/22	6	2.8	N
WH-SS-03 @ 6' (40.252397 / -104.539523)	04/15/22	6	0.3	N
WH-SS-04 6' (40.252412 / -104.539525)	04/15/22	6	1.3	N
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	Y
Background-01 @ 3' (40.252413 / -104.539517)	04/15/22	3	0.5	Y
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	Y
FL-SS-02 @ 3' (40.250364 / -104.539784)	05/24/22	3	1.2	N
FL-SS-03 @ 3' (40.250568 / -104.539660)	05/24/22	3	1.1	N
FL-SS-04 @ 3' (40.250776 / -104.539538)	05/24/22	3	0.6	N
FL-SS-05 @ 3' (40.250982 / -104.539424)	05/24/22	3	0.3	N
FL-SS-06 @ 3' (40.251118 / -104.539332)	05/24/22	3	1.2	N
FL-SS-07 @ 3' (40.251380 / -104.539213)	05/24/22	3	1.5	N
FL-SS-08 @ 3' (40.251616 / -104.539280)	05/24/22	3	1.6	N
FL-SS-09 @ 3' (40.251915 / -104.5393717)	05/24/22	3	1.5	N
FL-SS-10 @ 3' (40.252131 / -104.539446)	05/24/22	3	0.1	N
FL-SS-11 @ 3' (40.252387 / -104.539523)	05/24/22	3	0.3	N
Background-02 @ 1' (40.248778 / -104.540625)	05/24/22	1	0.1	Y



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**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**BECCA #D 3-11**  
**HISTORICAL RELEASE**  
**40.252420 / -104.539510**  
**NE¼ SW¼ SEC.3 T3N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-17286**  
**REMEDATION # 22098**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	Y
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	Y
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	Y
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				



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TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDIAION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	<0.00200	<0.00200	<0.00200	0.00744	0.295	<25.0	<100	<0.00200	<b>0.0159*</b>	0.119	0.602	<b>8.66</b>	2.90
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<b>3.95</b>	0.154	<b>8.43</b>	0.221
Background-02 @ 1' (40.248778 / -104.540625)	05/24/22	1	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	7.50	NA
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	<0.00200	<0.00200	<0.00200	<0.00200	146	160	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound																
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics NA = Not Analyzed 1,2,4-TMB = 1,2,4-Trimethylbenzene 1,3,5-TMB = 1,3,5-Trimethylbenzene MDL = Minimum Detection Limits																

TABLE 3  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	<b>0.0106*</b>	0.0108	0.00224	0.000382	<0.00067	0.00085	0.000677	<0.00067	0.00281	<0.00067	<0.00067	0.000575	<0.00067	0.00276	0.00333
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	<b>&lt;0.0335*</b>	<b>&lt;0.0335*</b>	0.0621	<0.0335	<b>&lt;0.0335*</b>	<0.0335	<0.0335	<0.0335	0.0585	<0.0335	<0.0335	0.0223	<0.0335	<b>&lt;0.0335*</b>	<0.0335
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
COGCC = Colorado Oil and Gas Conservation Commission      PID = Photoionization Detector mg/kg = milligrams per kilogram      ppm-v = parts per million by volume Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound																		

TABLE 4  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)
<b>COGCC Table 915-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>
MW-01 (40.252406 / -104.539533)	10/25/22	<1.00	<1.00	3.78	52.6	32.2	<b>782</b>	<b>387</b>
MW-02 (40.252442 / -104.539536)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.252389 / -104.539493)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.252379 / -104.539556)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
Notes: COGCC = Colorado Oil and Gas Conservation Commission µg/L = micrograms per liter Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in <b>bold</b> typeface exceed their respective COGCC - Regulatory Limits (Table 915-1). <div style="float: right; text-align: right;">             1,2,4-TMB = 1,2,4-Trimethylbenzene              1,3,5-TMB = 1,3,5-Trimethylbenzene           </div>								

TABLE 5  
INORGANIC GROUNDWATER PARAMETERS SUMMARY  
BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDIAION # 22098

Sample Location (Latitude/Longitude)	Date	Chlorides (mg/L)	Sulfates (mg/L)	Total Dissolved Solids (mg/L)
<b>COGCC Table 915-1 Regulatory Limits (mg/L)</b>		<b>250</b>	<b>1.25 x Local Background (1153)</b>	<b>1.25 x Local Background (1963)</b>
MW-01 (40.252406 / -104.539533)	10/25/22	89.9	914	1600
MW-02 (40.252442 / -104.539536)	10/25/22	87.3	914	1590
MW-03 (40.252389 / -104.539493)	10/25/22	88.1	926	1530
MW-04 (40.252379 / -104.539556)	10/25/22	83.2	922	1570
Notes: mg/L - milligrams per liter  The Inorganic Groundwater Parameters in monitoring well MW-04 were used in the determination of "local background" levels at the site. Local "regulatory limit" (1.25*local background) presented (in parentheses). Values presented in <b>bold</b> typeface exceed their respective COGCC - Regulatory Limits (Table 915-1).				

TABLE 6  
DISSOLVED PAH ANALYTICAL RESULTS SUMMARY  
BECCA #D 3-11  
HISTORICAL RELEASE  
40.252420 / -104.539510  
NE¼ SW¼ SEC.3 T3N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17286  
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	1-Methyl-naphthalene (µg/L)
COGCC Narrative Groundwater Quality Standard*		1.1*
MW-01 (40.252406 / -104.539533)	10/25/22	<b>154</b>
MW-02 (40.252442 / -104.539536)	10/25/22	0.0411
MW-03 (40.252389 / -104.539493)	10/25/22	<0.1
MW-04 (40.252379 / -104.539556)	10/25/22	<0.1
<p>COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Notes:</p> <p>*COGCC regulatory limits in groundwater have not been established for 1-methylnaphthalene. COGCC implements a narrative groundwater quality standard taken from the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for Tapwater, as incorporated by reference in Rule 901.b, tables for Target Risk ("TR") = <math>1 \times 10^{-6}</math> and Target Hazard Quotient ("THQ")=0.1. The EPA RSL for Tapwater, and resultant narrative groundwater quality standard for 1-methylnaphthalene is 1.1 µg/L.</p> <p>Values presented with a less than symbol (&lt;) did not contain concentrations at or above the laboratory reporting and/or minimum detection limit.</p> <p>Values presented in <b>BOLD</b> contained concentrations exceeding applicable Quality Standards</p>		

**TABLE 7**  
**GROUNDWATER ELEVATION SUMMARY**  
**BECCA #D 3-11**  
**HISTORICAL RELEASE**  
**40.252420 / -104.539510**  
**NE¼ SW¼ SEC.3 T3N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-17286**  
**REMEDATION # 22098**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet) (TOC)
MW-01 (40.252406 / -104.539533)	10/25/22	99.51	13.88	85.63
MW-02 (40.252442 / -104.539536)	10/25/22	99.54	13.93	85.61
MW-03 (40.252389 / -104.539493)	10/25/22	100.00	14.50	85.50
MW-04 (40.252379 / -104.539556)	10/25/22	99.50	13.81	85.69
Notes: TOC - Top of Casing bgs- below ground surface				

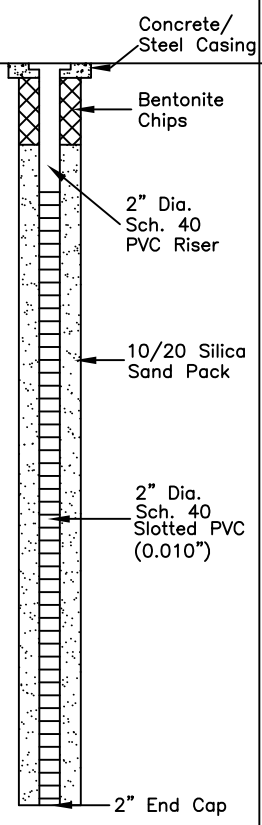


## **ATTACHMENT A**

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

# Boring Log/Well Completion Diagram: MW-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-20') silty SAND - brown, moist to wet, medium dense to dense, fine to medium grained, poorly-graded with ~15-20% silt		DP	1	60	0.6	N/A			
						0.9				
5			DP	2	60	2.5	N/A	5		
						20.5				
10	@10-15' - black staining, HC odor	SM				113.2	N/A	10		
	@13.5' - wet		DP	3	70	110.1				
15						89.4	N/A	15		
			DP	4	80	8.6				
20	BoB @ 20'							20		
25								25		
30										

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

START/COMPLETION DATE: 10/21/22

SAND PACK INTERVAL (FEET): 2-18

PROJECT: BECCA #D 3-11

BENTONITE/GROUT INTERVAL (FEET): 1-2

LOGGED BY: C. TRIPLETT

WELL SCREEN INTERVAL (FEET): 3-18

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 18

PID INSTRUMENT: MINIRAE 3000 - PID #15

TIME STARTED/COMPLETED: 0950/1015

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-13.5/1000

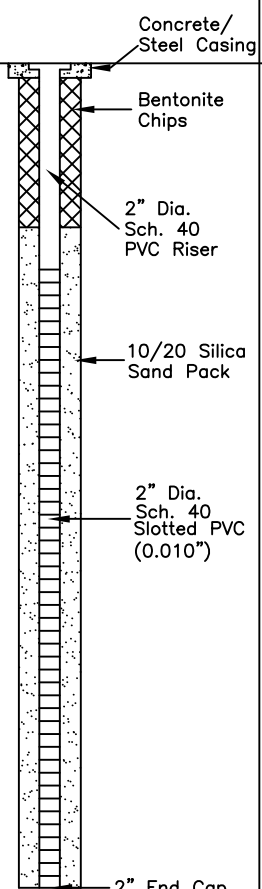


**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC.


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

# Boring Log/Well Completion Diagram: MW-02

PAGE 1 OF 1

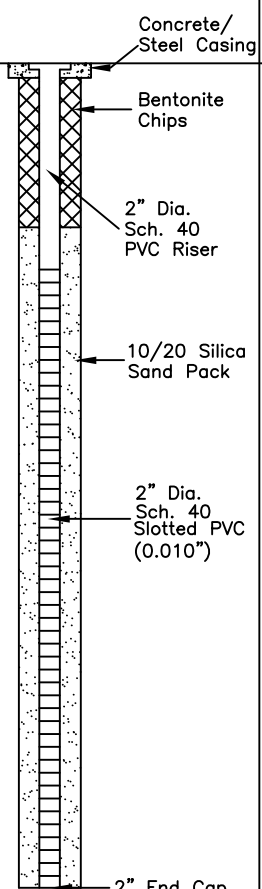
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-20') silty SAND - brown, moist to wet, medium dense to dense, fine to medium grained, poorly-graded with ~15-20% silt, N/O, N/S	SM	DP	1	50	0.1	N/A	0		
						0.7				
5			DP	2	70	0.5	N/A	5		
						0.9				
10			DP	3	70	0.8	N/A	10		
						0.8				
15			DP	4	80	0.6	N/A	15		
						0.5				
20	BoB @ 20'							20	2" End Cap	DP - Direct Push HA - hand auger HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface

30

START/COMPLETION DATE: 10/21/22		SAND PACK INTERVAL (FEET): 4–20	
PROJECT: BECCA #D 3–11		BENTONITE/GROUT INTERVAL (FEET): 1–4	
LOGGED BY: C. TRIPLETT		WELL SCREEN INTERVAL (FEET): 5–20	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 2	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): 20		
PID INSTRUMENT: MINIRAE 3000 – PID #15			
TIME STARTED/COMPLETED: 1030/1100			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5–10/1040			
<div><div><div>EAGLE</div><div>ENVIRONMENTAL CONSULTING, LLC.</div><div>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</div></div></div>			

# Boring Log/Well Completion Diagram: MW-03

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-20') silty SAND - brown, moist to wet, medium dense to dense, fine to medium grained, poorly-graded with ~15-20% silt, N/O, N/S	SM	DP	1	70	0.1	N/A	0		
						0.4				
5			DP	2	85	0.1	N/A	5		
						0.3				
10			DP	3	80	0.6	N/A	10		
						0.2				
15			DP	4	85	0.3	N/A	15		
						0.1				
20	BoB @ 20'							20		
25								25		
30								30		

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

START/COMPLETION DATE: 10/21/22

SAND PACK INTERVAL (FEET): 4-20

PROJECT: BECCA #D 3-11

BENTONITE/GROUT INTERVAL (FEET): 1-4

LOGGED BY: C. TRIPLETT

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MINIRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1125/1155

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-13.5/1130

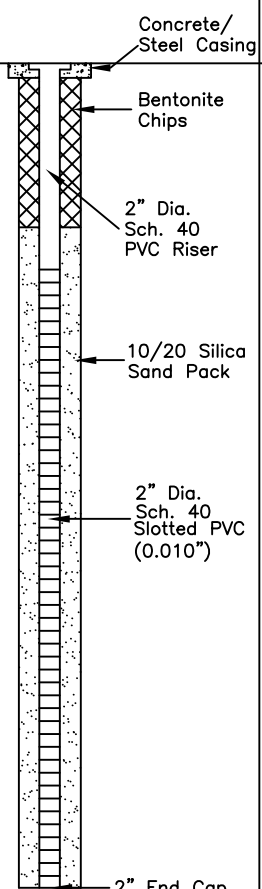


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# Boring Log/Well Completion Diagram: MW-04

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-20') silty SAND - brown, moist to wet, medium dense to dense, fine to medium grained, poorly-graded with ~15-20% silt, N/O, N/S	SM	DP	1	70	0.1	N/A	0		
						0.3				
5			DP	2	85	1.3	N/A	5		
						1.4				
10			DP	3	80	0.8	N/A	10		
						0.5				
15			DP	4	85	0.3	N/A	15		
						0.5				
20	BoB @ 20'							20		
25								25		
30								30		

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

START/COMPLETION DATE: 10/21/22

SAND PACK INTERVAL (FEET): 4-20

PROJECT: BECCA #D 3-11

BENTONITE/GROUT INTERVAL (FEET): 1-4

LOGGED BY: C. TRIPLETT

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MINIRAE 3000 - PID #15

TIME STARTED/COMPLETED: 1200/1230

SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1210



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC.

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



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



November 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

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. October 21, 2022. This project is associated with Origins project number Y210539-01.

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@10-13.5'	Y210539-01	Soil	October 21, 2022 10:00	10/21/2022 14:45
MW-02@7.5-10'	Y210539-03	Soil	October 21, 2022 10:40	10/21/2022 14:45
MW-03@10-13.5'	Y210539-05	Soil	October 21, 2022 11:30	10/21/2022 14:45
MW-04@7.5-10'	Y210539-07	Soil	October 21, 2022 12:10	10/21/2022 14:45

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: Eagle Env. Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0474  
Email Address: mce@eagle-enviro.com

Project Manager: Martin Eckert III  
Project Name: Becca #D 3-11  
Project Number: —  
Samples Collected By: CT

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>			
MW-01 @ 10-13.5'	10/21/22	1000	2	X			Soil	8.5% EX. TMS - 8.260D D201 RRD - 60.15D F4H 8.230D SITS	1
MW-02 @ 7.5-10'		1040							2
MW-03 @ 10-13.5'		1130							3
MW-04 @ 7.5-10'		1210							4
									5
									6
									7
									8
									9
									10

Relinquished By: *[Signature]* Date: 10/21/22 Time: 1445  
Relinquished By: *[Signature]* Date: 10/21/22 Time: 1445

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

Date Results Needed: 1-3  
Temp Received: 1-3

Bill to Dan

Noble

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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: 1210539 Client: Eagle Environmental  
Client Project ID: Becca D#3-11

Checklist Completed by: TSH/DE Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/time completed: 10/24/22 Airbill #: N/A

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

Cooler Number/Temperature: 1, 1.3 °C        °C        °C (Describe)        °C

Thermometer ID: 1004

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

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

Reviewed by: JB (Project Manager)

10-26-22  
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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**MW-01@10-13.5'**  
**10/21/2022 10:00:00AM**

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

**Origins Laboratory, Inc.**  
**Y210539-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	160	25.0	mg/kg	1	B2J2625	10/26/2022	10/29/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 156 % 50-150 " " " S-04

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2524	10/25/2022	11/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	146	5.00	"	25	"	"	11/03/2022	

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " 11/02/2022  
Surrogate: Toluene-d8 101 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 115 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**MW-01@10-13.5'**  
**10/21/2022 10:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y210539-01 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.0182	0.0335	mg/Kg	50	L645698	10/27/2022	10/28/2022	
2-Methylnaphthalene	ND	0.0323	0.0335	"	"	"	"	"	
Acenaphthene	<b>0.0621</b>	<b>0.0152</b>	0.0335	"	"	"	"	"	
Anthracene	ND	0.0167	0.0335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.0247	0.0335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.0234	0.0335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0293	0.0335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0219	0.0335	"	"	"	"	"	
Chrysene	<b>0.0585</b>	<b>0.0312</b>	0.0335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0307	0.0335	"	"	"	"	"	
Fluoranthene	ND	0.0197	0.0335	"	"	"	"	"	
Fluorene	<b>0.0223</b>	<b>0.0143</b>	0.0335	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.0314	0.0335	"	"	"	"	"	
Naphthalene	ND	0.0242	0.0335	"	"	"	"	"	
Pyrene	ND	0.0322	0.0335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	90 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**MW-02@7.5-10'**  
**10/21/2022 10:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210539-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2625	10/26/2022	10/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 83.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2524	10/25/2022	11/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.0 % 70-130 " " "  
Surrogate: Toluene-d8 99.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

MW-02@7.5-10'

10/21/2022 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210539-03 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L645698	10/27/2022	10/28/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.5 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**MW-03@10-13.5'**  
**10/21/2022 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y210539-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2625	10/26/2022	10/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2524	10/25/2022	11/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.6 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

MW-03@10-13.5'  
10/21/2022 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210539-05 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L645698	10/27/2022	10/28/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	72.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	83.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.4 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

MW-04@7.5-10'  
10/21/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y210539-07 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J2625	10/26/2022	10/29/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.8 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J2524	10/25/2022	11/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 99.2 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

## PAH by 8270D SIM

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

MW-04@7.5-10'

10/21/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y210539-07 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L645698	10/27/2022	10/28/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	72.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	84.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	63.9 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2524 - EPA 5030 (soil)</b>										
<b>Blank (B2J2524-BLK1)</b>					Prepared: 10/25/2022 Analyzed: 11/02/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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 B2J2524 - EPA 5030 (soil)**

**LCS (B2J2524-BS1)**

Prepared: 10/25/2022 Analyzed: 11/02/2022

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0920	0.00380	"	0.100		92.0	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2524 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2J2524-MS1)</b>		<b>Source: Y210557-01</b>			Prepared: 10/25/2022 Analyzed: 11/03/2022					
1,2,4-Trimethylbenzene	0.0708	0.00200	mg/kg	0.100	ND	70.8	70-130			
1,3,5-Trimethylbenzene	0.0712	0.00200	"	0.100	ND	71.2	70-130			
Benzene	0.0734	0.00200	"	0.100	ND	73.4	70-130			
Ethylbenzene	0.0715	0.00200	"	0.100	ND	71.5	70-130			
Naphthalene	0.0635	0.00380	"	0.100	ND	63.5	70-130			QM-07
Toluene	0.0719	0.00200	"	0.100	ND	71.9	70-130			
o-Xylene	0.0722	0.00200	"	0.100	ND	72.2	70-130			
m,p-Xylene	0.144	0.00400	"	0.200	ND	71.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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
<b>Batch B2J2524 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2J2524-MSD1)</b>		<b>Source: Y210557-01</b>			Prepared: 10/25/2022 Analyzed: 11/03/2022					
1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100	ND	87.7	70-130	21.2	20	QM-07
1,3,5-Trimethylbenzene	0.0866	0.00200	"	0.100	ND	86.6	70-130	19.5	20	
Benzene	0.0884	0.00200	"	0.100	ND	88.4	70-130	18.6	20	
Ethylbenzene	0.0873	0.00200	"	0.100	ND	87.3	70-130	19.9	20	
Naphthalene	0.0820	0.00380	"	0.100	ND	82.0	70-130	25.4	20	QM-07
Toluene	0.0879	0.00200	"	0.100	ND	87.9	70-130	19.9	20	
o-Xylene	0.0883	0.00200	"	0.100	ND	88.3	70-130	20.1	20	QM-07
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	20.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
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 B2J2625 - EPA 3550B										
Blank (B2J2625-BLK1)					Prepared: 10/26/2022 Analyzed: 10/28/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		83.3	50-150			

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J2625 - EPA 3550B

**LCS (B2J2625-BS1)**

Prepared: 10/26/2022 Analyzed: 10/28/2022

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	837	200	"	1000		83.7	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.5	50-150			

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2J2625 - EPA 3550B

Matrix Spike (B2J2625-MS1)		Source: Y210530-01			Prepared: 10/26/2022 Analyzed: 10/28/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	894	200	"	1000	ND	89.4	70-130			
Surrogate: o-Terphenyl	38		"	49.8		76.3	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J2625 - EPA 3550B

Matrix Spike Dup (B2J2625-MSD1)		Source: Y210530-01			Prepared: 10/26/2022 Analyzed: 10/28/2022					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	2.63	35	
Residual Range Organics (C28-C40)	862	200	"	1000	ND	86.2	70-130	3.71	35	
Surrogate: o-Terphenyl	38		"	49.8		75.4	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## PAH by 8270D SIM - Quality Control

### Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L645698 - 3550B

MSD (L 83631-MSD-L645698)		Source: 83631			Prepared: 10/27/2022 Analyzed: 10/28/2022					
Benzo(a)pyrene	0.0697	0.0335	mg/Kg	0.163	<0.0234	42.7	30-130	8.6	30	
1-Methylnaphthalene	0.0752	0.0335	"	0.163	<0.0182	46.1	30-130	26.8	30	
2-Methylnaphthalene	0.0773	0.0335	"	0.163	<0.0323	47.4	30-130	28.5	30	
Acenaphthene	0.069	0.0335	"	0.163	<0.0152	42.3	30-130	24.6	30	
Anthracene	0.0733	0.0335	"	0.163	<0.0167	44.9	30-130	29.2	30	
Benzo(b)fluoranthene	0.0602	0.0335	"	0.163	<0.0293	36.9	30-130	53.3	30	*
Pyrene	0.0678	0.0335	"	0.163	<0.0322	41.5	30-130	43	30	*
Naphthalene	0.0747	0.0335	"	0.163	<0.0242	45.8	30-130	13.9	30	
Indeno(1,2,3-cd)pyrene	0.0812	0.0335	"	0.163	<0.0314	49.8	30-130	12.6	30	
Fluorene	0.0772	0.0335	"	0.163	<0.0143	47.3	30-130	16.6	30	
Fluoranthene	0.0614	0.0335	"	0.163	<0.0197	37.6	30-130	55	30	*
Dibenz(a,h)anthracene	0.0742	0.0335	"	0.163	<0.0307	45.5	30-130	39.7	30	*
Chrysene	0.0738	0.0335	"	0.163	<0.0312	45.2	30-130	25.2	30	
Benzo(k)fluoranthene	0.0731	0.0335	"	0.163	<0.0219	44.8	30-130	48.5	30	*
Benzo(a)anthracene	0.0861	0.0335	"	0.163	<0.0247	52.8	30-130	21.6	30	
Surrogate: 2-Fluorobiphenyl	45.2		"	0.327	218	45.2	33-115			
Surrogate: 4-Terphenyl-d14	40.3		"	0.327	200	40.3	33-122			
Surrogate: Nitrobenzene-d5	40		"	0.327	199	40	29-110			

MS (L 83631-MS-L645698)		Source: 83631			Prepared: 10/27/2022 Analyzed: 10/28/2022					
Benzo(a)pyrene	0.076	0.0335	mg/Kg	0.162	<0.0234	46.9	30-130			
Chrysene	0.0951	0.0335	"	0.162	<0.0312	58.7	30-130			

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L645698 - 3550B**

MS (L 83631-MS-L645698)		Source: 83631			Prepared: 10/27/2022 Analyzed: 10/28/2022					
Pyrene	0.105	0.0335	mg/Kg	0.162	<0.0322	64.8	30-130			
Naphthalene	0.0859	0.0335	"	0.162	<0.0242	53	30-130			
Indeno(1,2,3-cd)pyrene	0.0922	0.0335	"	0.162	<0.0314	56.9	30-130			
Fluorene	0.0912	0.0335	"	0.162	<0.0143	56.2	30-130			
Fluoranthene	0.108	0.0335	"	0.162	<0.0197	66.6	30-130			
Dibenz(a,h)anthracene	0.111	0.0335	"	0.162	<0.0307	68.5	30-130			
Benzo(b)fluoranthene	0.104	0.0335	"	0.162	<0.0293	64.1	30-130			
Benzo(a)anthracene	0.107	0.0335	"	0.162	<0.0247	66	30-130			
Anthracene	0.0984	0.0335	"	0.162	<0.0167	60.7	30-130			
Acenaphthene	0.0884	0.0335	"	0.162	<0.0152	54.5	30-130			
2-Methylnaphthalene	0.103	0.0335	"	0.162	<0.0323	63.5	30-130			
1-Methylnaphthalene	0.0985	0.0335	"	0.162	<0.0182	60.8	30-130			
Benzo(k)fluoranthene	0.12	0.0335	"	0.162	<0.0219	74	30-130			
Surrogate: Nitrobenzene-d5	53.5		"	0.325	199	53.5	29-110			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.325	218	62.7	33-115			
Surrogate: 4-Terphenyl-d14	62.4		"	0.325	200	62.4	33-122			

**LCS (LCS-L645698)**

Prepared: 10/27/2022 Analyzed: 10/28/2022

Dibenz(a,h)anthracene	0.0974	0.00067	mg/Kg	0.167		58.3	30-130
Fluoranthene	0.108	0.00067	"	0.167		64.6	30-130
Fluorene	0.105	0.00067	"	0.167		62.8	30-130
Indeno(1,2,3-cd)pyrene	0.105	0.00067	"	0.167		62.8	30-130
Naphthalene	0.113	0.00067	"	0.167		67.6	30-130
Pyrene	0.109	0.00067	"	0.167		65.2	30-130
Chrysene	0.121	0.00067	"	0.167		72.4	30-130
1-Methylnaphthalene	0.114	0.00067	"	0.167		68.2	30-130
Benzo(b)fluoranthene	0.118	0.00067	"	0.167		70.6	30-130

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L645698 - 3550B**

**LCS (LCS-L645698)**

Prepared: 10/27/2022 Analyzed: 10/28/2022

Benzo(a)pyrene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Acenaphthene	0.101	0.00067	"	0.167		60.4	30-130			
2-Methylnaphthalene	0.112	0.00067	"	0.167		67	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Benzo(k)fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Surrogate: 4-Terphenyl-d14	92.1		"	0.333		92.1	33-122			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333		72.3	33-115			

**LRB (LRB-L645698)**

Prepared: 10/27/2022 Analyzed: 10/28/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	77.1		"	0.333		77.1	33-122			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

PAH by 8270D SIM - Quality Control  
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L645698 - 3550B

LRB (LRB-L645698)

Prepared: 10/27/2022 Analyzed: 10/28/2022

Surrogate: Nitrobenzene-d5	60.9		mg/Kg	0.333		60.9	29-110			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333		68.1	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

### Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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November 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

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. October 25, 2022. This project is associated with Origins project number Y210615-01.

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y210615-01	Water	October 25, 2022 11:20	10/25/2022 16:15
MW-02	Y210615-02	Water	October 25, 2022 11:50	10/25/2022 16:15
MW-03	Y210615-03	Water	October 25, 2022 12:20	10/25/2022 16:15
MW-04	Y210615-04	Water	October 25, 2022 12:50	10/25/2022 16:15
MW-01	Y210615-05	Water	October 25, 2022 11:20	10/25/2022 16:15
MW-02	Y210615-06	Water	October 25, 2022 11:50	10/25/2022 16:15
MW-03	Y210615-07	Water	October 25, 2022 12:20	10/25/2022 16:15
MW-04	Y210615-08	Water	October 25, 2022 12:50	10/25/2022 16:15
MW-01	Y210615-09	Water	October 25, 2022 11:20	10/25/2022 16:15
MW-02	Y210615-10	Water	October 25, 2022 11:50	10/25/2022 16:15
MW-03	Y210615-11	Water	October 25, 2022 12:20	10/25/2022 16:15
MW-04	Y210615-12	Water	October 25, 2022 12:50	10/25/2022 16:15

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

www.originslaboratory.com page 1 of 3

4210615

Project Manager: MARTIN ECKERT III  
Project Name: BECCA #D 3-11  
Project Number: -  
Samples Collected By: CT

Client: EAGLE ENVIRONMENTAL CONSULTING  
Address: 8000 W 44th AVE  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: MCE@EAGLE-ENVIRONMENTAL.COM

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summng #		Other
MW-01	10/25/12	1120	3	X	X			X				1
MW-02	11/50											2
MW-03	12/20											3
MW-04	12/50											4
												5
												6
												7
												8
												9
												10

Relinquished By: C. W. H. Date: 10/25/12 Time: 1015  
Relinquished By: Date: Time: 1015

Received By: J. H. Date: 10/25/12 Time: 1015  
Received By: Date: Time: 1015

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

Temp Received: 2.4 Date Results Needed: 10/25/12

Bill to Dan

Origins Laboratory, Inc.

*J. Bynon*

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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

www.originslaboratory.com

4210615

page 2 of 3

ORIGINS  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Telephone Number: 303-433-0479  
Email Address: mce3e@eagle-environ.com  
Project Manager: Martin Eckert III  
Project Name: Becca #D 3-11  
Project Number: —  
Samples Collected By: CT

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
NW-01	10/15/12	1120	2	X									1
NW-02	11/50		1										2
NW-03	1220		1										3
NW-04	11250		1										4
													5
													6
													7
													8
													9
													10

Relinquished By: Curry Date: 10/15/12 Time: 1615  
Relinquished By: — Date: — Time: —

Received By: — Date: 10/25/12 Time: 1615  
Received By: — Date: — Time: —

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

Temp Received: 2.4 Date Results Needed: Noble

Bill Le Dain

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 4210615

Client: Eagle

Client Project ID: Becca #D 3-11

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 10/25/22

Airbill #: NA

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

Cooler Number/Temperature: 1 12.4°C 1 °C 1 °C (Describe) 1 °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"/>	<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? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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"/>	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: JB (Project Manager)

10-26-22  
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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## MW-01

10/25/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-01 (Water) Origins Laboratory, Inc.

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	782	20.0	ug/L	10	B2J2724	JSM	10/27/2022	10/28/2022	
1,3,5-Trimethylbenzene	387	20.0	"	"	"	JSM	"	"	
Benzene	ND	1.00	"	1	"	JSM	"	10/28/2022	U
Ethylbenzene	3.78	1.00	"	"	"	JSM	"	"	
Naphthalene	32.2	2.00	"	"	"	JSM	"	"	
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	52.6	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## MW-02

10/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-02 (Water) Origins Laboratory, Inc.

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2J2724	JSM	10/27/2022	10/28/2022	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	103 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## MW-03

10/25/2022 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-03 (Water) Origins Laboratory, Inc.

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2J2724	JSM	10/27/2022	10/28/2022	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	103 %	70-130	"	"	"
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## MW-04

10/25/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-04 (Water) Origins Laboratory, Inc.

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2J2724	JSM	10/27/2022	10/28/2022	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	101 %	70-130	"	"	"
Surrogate: Toluene-d8	98.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## MW-01

10/25/2022 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y210615-05 (Water)

Waypoint Analytical, LLC.

### PAH by 8270D SIM

1-Methylnaphthalene	154	1	µg/L	50	L645892	10/28/2022	10/28/2022
---------------------	-----	---	------	----	---------	------------	------------

Surrogate: 2-Fluorobiphenyl

72.2 % 38-107

"

"

"

Surrogate: 4-Terphenyl-d14

63.3 % 33-122

"

"

"

Surrogate: Nitrobenzene-d5

104 % 29-110

"

"

"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

## MW-02

10/25/2022 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-06 (Water) Waypoint Analytical, LLC.

### PAH by 8270D SIM

1-Methylnaphthalene	0.0411	0.02	µg/L	1	L645892		10/28/2022	10/28/2022	
Surrogate: 2-Fluorobiphenyl	73.9 %	38-107			"	"		"	
Surrogate: 4-Terphenyl-d14	58.1 %	33-122			"	"		"	
Surrogate: Nitrobenzene-d5	52.7 %	29-110			"	"		"	

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## MW-03

10/25/2022 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y210615-07 (Water)

Waypoint Analytical, LLC.

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.1	µg/L	5	L645892	10/28/2022	10/28/2022
---------------------	----	-----	------	---	---------	------------	------------

Surrogate: 2-Fluorobiphenyl

76.2 % 38-107

"

"

"

Surrogate: 4-Terphenyl-d14

74.3 % 33-122

"

"

"

Surrogate: Nitrobenzene-d5

56.7 % 29-110

"

"

"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## MW-04

10/25/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y210615-08 (Water)

Waypoint Analytical, LLC.

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.1	µg/L	5	L645892	10/28/2022	10/28/2022
---------------------	----	-----	------	---	---------	------------	------------

Surrogate: 2-Fluorobiphenyl

56.9 % 38-107

"

"

"

Surrogate: 4-Terphenyl-d14

72.6 % 33-122

"

"

"

Surrogate: Nitrobenzene-d5

54.4 % 29-110

"

"

"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

**MW-01****10/25/2022 11:20:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y210615-09 (Water)****Origins Laboratory, Inc.****Anions by IC 300.0**

Chloride	89.9	31.2	mg/L	125	B2K0425	ACC	11/04/2022	11/08/2022	
Sulfate	914	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1600	5.00	"	1	B2J2720	EHS	10/27/2022	10/31/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

**MW-02****10/25/2022 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y210615-10 (Water)****Origins Laboratory, Inc.****Anions by IC 300.0**

Chloride	87.3	31.2	mg/L	125	B2K0425	ACC	11/04/2022	11/08/2022
Sulfate	914	31.2	"	"	"	ACC	"	"

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1590	5.00	"	1	B2J2720	EHS	10/27/2022	10/31/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**MW-03**

**10/25/2022 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y210615-11 (Water)**  
**Origins Laboratory, Inc.**

**Anions by IC 300.0**

Chloride	88.1	31.2	mg/L	125	B2K0425	ACC	11/04/2022	11/08/2022	
Sulfate	926	31.2	"	"	"	ACC	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1530	5.00	"	1	B2J2720	EHS	10/27/2022	10/31/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

## MW-04

10/25/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Y210615-12 (Water)

Origins Laboratory, Inc.

### Anions by IC 300.0

Chloride	83.2	31.2	mg/L	125	B2K0425	ACC	11/04/2022	11/08/2022	
Sulfate	922	31.2	"	"	"	ACC	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1570	5.00	"	1	B2J2720	EHS	10/27/2022	10/31/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2724 - EPA 5030B (Water)</b>										
<b>Blank (B2J2724-BLK1)</b>					Prepared: 10/27/2022 Analyzed: 10/27/2022					
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	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2724 - EPA 5030B (Water)</b>										
<b>LCS (B2J2724-BS1)</b>					Prepared: 10/27/2022 Analyzed: 10/27/2022					
1,2,4-Trimethylbenzene	54.2	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	55.4	2.00	"	50.0		111	70-130			
Benzene	43.6	1.00	"	50.0		87.1	70-130			
Ethylbenzene	44.7	1.00	"	50.0		89.4	70-130			
m,p-Xylene	96.7	2.00	"	100		96.7	70-130			
Naphthalene	43.4	2.00	"	50.0		86.9	70-130			
o-Xylene	42.4	1.00	"	50.0		84.8	70-130			
Toluene	47.3	1.00	"	50.0		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.7	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2724 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B2J2724-MS1)</b>		<b>Source: Y210611-01</b>			Prepared: 10/27/2022 Analyzed: 10/27/2022					
1,2,4-Trimethylbenzene	28.1	2.00	ug/L	50.0	ND	56.1	70-130			QM-07
1,3,5-Trimethylbenzene	27.9	2.00	"	50.0	ND	55.8	70-130			QM-07
Benzene	21.9	1.00	"	50.0	ND	43.8	70-130			QM-07
Ethylbenzene	20.6	1.00	"	50.0	ND	41.2	70-130			QM-07
m,p-Xylene	45.6	2.00	"	100	ND	45.6	70-130			QM-07
Naphthalene	23.7	2.00	"	50.0	ND	47.4	70-130			QM-07
o-Xylene	22.3	1.00	"	50.0	ND	44.6	70-130			QM-07
Toluene	22.9	1.00	"	50.0	ND	45.7	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.8	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
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
<b>Batch B2J2724 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B2J2724-MSD1)</b>	<b>Source: Y210611-01</b>				Prepared: 10/27/2022 Analyzed: 10/27/2022					
1,2,4-Trimethylbenzene	47.9	2.00	ug/L	50.0	ND	95.8	70-130	52.2	20	QR-DUP
1,3,5-Trimethylbenzene	46.6	2.00	"	50.0	ND	93.2	70-130	50.2	20	QR-DUP
Benzene	39.4	1.00	"	50.0	ND	78.7	70-130	56.9	20	QR-DUP
Ethylbenzene	36.0	1.00	"	50.0	ND	71.9	70-130	54.4	20	QR-DUP
m,p-Xylene	81.8	2.00	"	100	ND	81.8	70-130	56.7	20	QR-DUP
Naphthalene	50.4	2.00	"	50.0	ND	101	70-130	72.0	20	QR-DUP
o-Xylene	41.5	1.00	"	50.0	ND	83.0	70-130	60.3	20	QR-DUP
Toluene	35.7	1.00	"	50.0	ND	71.4	70-130	43.8	20	QR-DUP
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	56		"	62.5		89.7	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.6	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
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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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2J2720 - NO PREP

##### Blank (B2J2720-BLK1)

Prepared: 10/27/2022 Analyzed: 10/31/2022

Total Dissolved Solids ND 5.00 mg/L

##### LCS (B2J2720-BS1)

Prepared: 10/27/2022 Analyzed: 10/31/2022

Total Dissolved Solids 1030 5.00 mg/L 1020 101 90-110

##### Duplicate (B2J2720-DUP1)

Source: Y210611-07

Prepared: 10/27/2022 Analyzed: 10/31/2022

Total Dissolved Solids 1410 5.00 mg/L 1370 2.73 10

#### Batch B2K0425 - Filter .45um non acidified

##### Blank (B2K0425-BLK1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chloride ND 0.250 mg/L U

Sulfate ND 0.250 " U

##### LCS (B2K0425-BS1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chloride 3.80 0.250 mg/L 4.00 94.9 90-110

Sulfate 3.98 0.250 " 4.00 99.6 90-110

##### Matrix Spike (B2K0425-MS1)

Source: Y210611-05

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chloride 1570 mg/L 500 1080 97.8 90-110

Sulfate 2070 " 500 1700 72.8 90-110 QM-07

##### Matrix Spike Dup (B2K0425-MSD1)

Source: Y210611-05

Prepared: 11/04/2022 Analyzed: 11/07/2022

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2K0425 - Filter .45um non acidified

Matrix Spike Dup (B2K0425-MSD1)			Source: Y210611-05		Prepared: 11/04/2022 Analyzed: 11/07/2022					
Chloride	1520		mg/L	500	1080	86.5	90-110	3.67	5	QM-07
Sulfate	2000		"	500	1700	59.6	90-110	3.26	5	QM-07

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Becca #D 3-11

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L645892 - 3510C</b>										
<b>LCSD (LCSD-L645892)</b>					Prepared: 10/28/2022 Analyzed: 10/28/2022					
1-Methylnaphthalene	2.09	0.02	µg/L	5		41.8	34-108	9.5	20	
Surrogate: 2-Fluorobiphenyl	49.8		"	10		49.8	38-107			
Surrogate: 4-Terphenyl-d14	53.3		"	10		53.3	33-122			
Surrogate: Nitrobenzene-d5	41.1		"	10		41.1	29-110			
<b>LCS (LCS-L645892)</b>					Prepared: 10/28/2022 Analyzed: 10/28/2022					
1-Methylnaphthalene	2.3	0.02	µg/L	5		46	34-108			
Surrogate: 2-Fluorobiphenyl	46.7		"	10		46.7	38-107			
Surrogate: 4-Terphenyl-d14	67.3		"	10		67.3	33-122			
Surrogate: Nitrobenzene-d5	47.6		"	10		47.6	29-110			
<b>LRB (LRB-L645892)</b>					Prepared: 10/28/2022 Analyzed: 10/28/2022					
1-Methylnaphthalene	ND	0.02	µg/L				-			
Surrogate: 2-Fluorobiphenyl	49.9		"	10		49.9	38-107			
Surrogate: 4-Terphenyl-d14	51.7		"	10		51.7	33-122			
Surrogate: Nitrobenzene-d5	47.7		"	10		47.7	29-110			

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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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