



FIGURES

Figure 1: Groundwater Analytical Map (07/03/23)

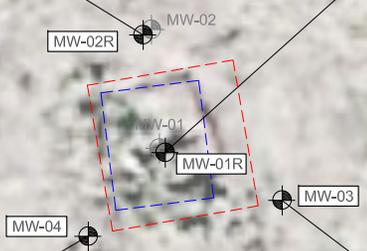
Figure 2: Groundwater Elevation Map (07/03/23)

MW-02R
07/03/23
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-M = <0.02
2-M = <0.02
B(A)A = <0.02

MW-01R
07/03/23
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-M = <0.02
2-M = <0.02
B(A)A = <0.02

MW-04
07/03/23
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-M = <0.02
2-M = <0.02
B(A)A = <0.02

MW-03
07/03/23
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-M = <0.02
2-M = <0.02
B(A)A = <0.02



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SOURCE EXCAVATION BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS
- DESTROYED 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-M = 1-METHYLNAPHTHALENE (µg/L)
2-M = 2-METHYLNAPHTHALENE (µg/L)
B(A)A = BENZO(A)ANTHRACENE (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** EXCEED 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 & 2-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")=1x10⁻⁶ AND TARGET HAZARD QUOTIENT ("THQ")=0.1. THE EPA RSL FOR TAPWATER, AND RESULTANT NARRATIVE GROUNDWATER QUALITY STANDARD FOR 1-METHYLNAPHTHALENE & 2-METHYLNAPHTHALENE ARE 1.1 & 3.6 µg/L, RESPECTIVELY.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

GROUNDWATER ANALYTICAL MAP

(07/03/23)
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE ¼ SW ¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDIATION # 22098

DRAWN BY:

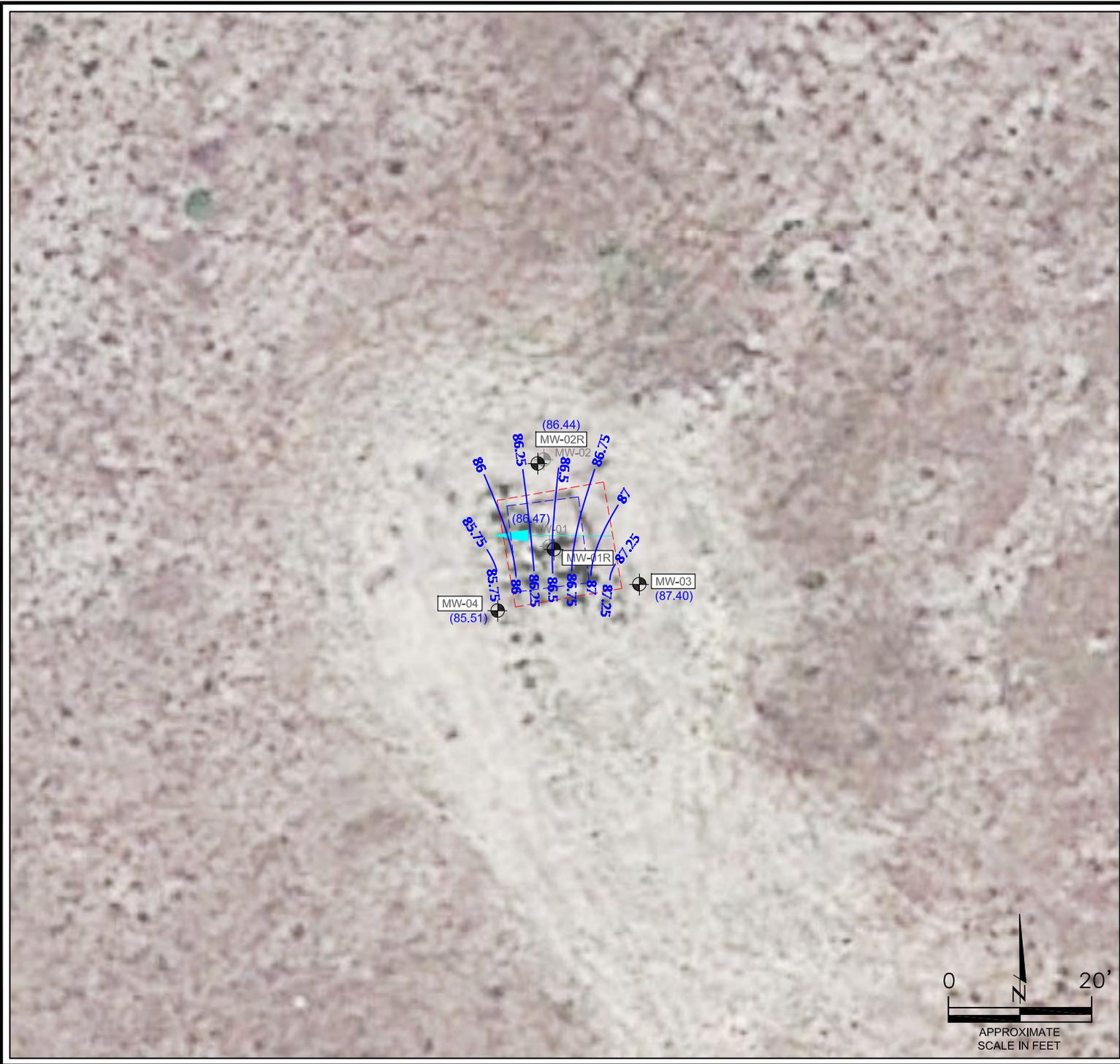
GEC

FIGURE NO.

1



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



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SOURCE EXCAVATION BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS
- DESTROYED MONITORING WELL LOCATIONS
- (92.94) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA WAS COLLECTED ON
07/03/23.

HYDRAULIC GRADIENT (MW-03 TO MW-04): 0.095 FT/FT

**GROUNDWATER ELEVATION MAP
(07/03/23)**

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

DRAWN BY:
GEC

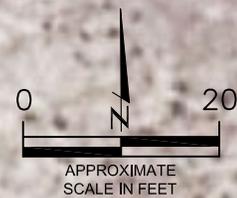
FIGURE NO.

2



EAGLE
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TABLES

Table 1: Groundwater Analytical Results Summary

Table 2: Groundwater Elevation Summary

**TABLE 1
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
REMEDIAION # 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)	1-Methyl- naphthalene (µg/L)	2-Methyl- naphthalene (µg/L)	Benzo(a)- anthracene (µg/L)
COGCC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67	1.1*	3.6*	0.16
MW-01 (40.252406 / -104.539533)	10/25/22	<1.00	<1.00	3.78	52.6	32.2	782	387	154	NA	NA
	02/17/23	DES									
MW-01R (40.252406 / -104.539533)	04/17/23	<1.00	<1.00	1.92	3.84	<2.00	<2.00	<2.00	1.21	0.0258	<0.02
	07/03/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	0.039	<0.02	<0.02
MW-02 (40.252442 / -104.539536)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	0.0411	NA	NA
	02/17/23	DES									
MW-02R (40.252442 / -104.539536)	04/17/23	<1.00	<1.00	2.16	15.4	<2.00	<2.00	<2.00	0.00922	<0.02	<0.02
	07/03/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02	<0.02
MW-03 (40.252389 / -104.539493)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.1	NA	NA
	04/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02	<0.02
	07/03/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02	<0.02
MW-04 (40.252379 / -104.539556)	10/25/22	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.1	NA	NA
	04/17/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02	<0.02
	07/03/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.02	<0.02	<0.02

Notes: NA - Not Analyzed DES - Destroyed
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = micrograms per liter
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethylbenzene

*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") = 1x10⁻⁶ 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.

Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting and/or minimum detection limit.
Values presented in **BOLD** contained concentrations exceeding applicable COGCC Table 915-1 regulatory limits and/or Quality Standards*.



**TABLE 2
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
	02/17/23	DES		
MW-01R (40.252406 / -104.539533)	04/17/23	99.83	14.42	85.41
	07/03/23		13.36	86.47
MW-02 (40.252442 / -104.539536)	10/25/22	99.54	13.93	85.61
	02/17/23	DES		
MW-02R (40.252442 / -104.539536)	04/17/23	99.91	14.50	85.41
	07/03/23		13.47	86.44
MW-03 (40.252389 / -104.539493)	10/25/22	100.00	14.50	85.50
	04/17/23		13.61	86.39
	07/03/23		12.60	87.40
MW-04 (40.252379 / -104.539556)	10/25/22	99.50	13.81	85.69
	04/17/23		14.32	85.18
	07/03/23		13.99	85.51
Notes: DES - Destroyed				
TOC - Top of Casing				
bgs- below ground surface				





ATTACHMENT A

Laboratory Analytical Reports



July 10, 2023

Eagle Environmental Consulting, LLC

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. July 03, 2023. This project is associated with Origins project number Y307011-01.

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

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

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

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

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

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



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

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-01R	Y307011-01	Water	July 3, 2023 10:50	07/03/2023 14:55
MW-02R	Y307011-02	Water	July 3, 2023 10:55	07/03/2023 14:55
MW-03	Y307011-03	Water	July 3, 2023 11:15	07/03/2023 14:55
MW-04	Y307011-04	Water	July 3, 2023 11:20	07/03/2023 14:55

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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: 4307011

Client: Eagle
 Client Project ID: Becca #D 3-11

Checklist Completed by: EHS

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

Date/time completed: 7/3/23

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

Cooler Number/Temperature: 1/3 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7064

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

JP
 Reviewed by (Project Manager)

7-5-23
 Date/Time Reviewed

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

MW-01R

7/3/2023 10:50:00AM

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

Waypoint Analytical, LLC.
Y307011-01 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	0.039	0.0076	0.02	µg/L	1	L691475	07/07/2023	07/07/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	
Benzo(a)anthracene	ND	0.0113	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	95.7 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	88.1 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

MW-02R

7/3/2023 10:55:00AM

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

Waypoint Analytical, LLC.
Y307011-02 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L691475	07/07/2023	07/07/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	
Benzo(a)anthracene	ND	0.0113	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	83.5 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	81.2 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

MW-03
7/3/2023 11:15:00AM

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

Waypoint Analytical, LLC.
Y307011-03 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L691475	07/07/2023	07/07/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	
Benzo(a)anthracene	ND	0.0113	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	93.1 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	85.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

MW-04
7/3/2023 11:20:00AM

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

Waypoint Analytical, LLC.
Y307011-04 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0076	0.02	µg/L	1	L691475	07/07/2023	07/07/2023	
2-Methylnaphthalene	ND	0.0185	0.02	"	"	"	"	"	
Benzo(a)anthracene	ND	0.0113	0.02	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	88.4 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	87.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Eagle Environmental Consulting, LLC
 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
Batch L691475 - 3511										
LCSD (LCSD-L691475)					Prepared: 07/07/2023 Analyzed: 07/07/2023					
Benzo(a)anthracene	3.73	0.02	µg/L	3.03		123	60-140	1.3	20	
2-Methylnaphthalene	2.83	0.02	"	3.03		93.3	60-140	5.4	20	
1-Methylnaphthalene	2.89	0.02	"	3.03		95.3	60-140	5	20	
Surrogate: 4-Terphenyl-d14	89.7		"	3.03		89.7	70-130			
Surrogate: 2-Fluorobiphenyl	86.7		"	3.03		86.7	70-130			
LCS (LCS-L691475)					Prepared: 07/07/2023 Analyzed: 07/07/2023					
Benzo(a)anthracene	3.68	0.02	µg/L	3.03		121	60-140			
2-Methylnaphthalene	2.99	0.02	"	3.03		98.6	60-140			
1-Methylnaphthalene	3.04	0.02	"	3.03		100	60-140			
Surrogate: 4-Terphenyl-d14	84.1		"	3.03		84.1	70-130			
Surrogate: 2-Fluorobiphenyl	87.4		"	3.03		87.4	70-130			
LRB (LRB-L691475)					Prepared: 07/07/2023 Analyzed: 07/07/2023					
Benzo(a)anthracene	ND	0.02	µg/L							
2-Methylnaphthalene	ND	0.02	"							
1-Methylnaphthalene	ND	0.02	"							
Surrogate: 4-Terphenyl-d14	90		"	3.03		90	70-130			
Surrogate: 2-Fluorobiphenyl	91.4		"	3.03		91.4	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Notes and Definitions

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.



Jen Pellegrini For Noelle Doyle Mathis, President

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 13, 2023

Eagle Environmental Consulting, LLC

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. July 03, 2023. This project is associated with Origins project number Y307019-01.

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.

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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
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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

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-01R	Y307019-01	Water	July 3, 2023 10:50	07/03/2023 14:55
MW-02R	Y307019-02	Water	July 3, 2023 10:55	07/03/2023 14:55
MW-03	Y307019-03	Water	July 3, 2023 11:15	07/03/2023 14:55
MW-04	Y307019-04	Water	July 3, 2023 11:20	07/03/2023 14:55

Origins Laboratory, Inc.



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 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: 4307019 Client: Eagle
 Checklist Completed by: ETIS Client Project ID: Becca #D.3-11
 Date/time completed: 7/3/23 Shipped Via: FD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 113 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: TOU4

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	/			NC
Additional Comments (if any):				

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

Reviewed by JB (Project Manager) Date/Time Reviewed 7-3-23

Origins Laboratory, Inc.

J. Bynon

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

MW-01R

7/3/2023 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307019-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G0733	JSM	07/07/2023	07/11/2023	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	89.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-02R

7/3/2023 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307019-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G0733	JSM	07/07/2023	07/11/2023	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	92.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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

MW-03

7/3/2023 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307019-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G0733	JSM	07/07/2023	07/11/2023	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	90.9 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-04

7/3/2023 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y307019-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3G0733	JSM	07/07/2023	07/11/2023	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	93.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	"	

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 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 B3G0733 - EPA 5030B (Water)

Blank (B3G0733-BLK1)

Prepared: 07/07/2023 Analyzed: 07/10/2023

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	58		"	62.5	92.6		70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.9		70-130			

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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 B3G0733 - EPA 5030B (Water)

LCS (B3G0733-BS1)

Prepared: 07/07/2023 Analyzed: 07/10/2023

1,2,4-Trimethylbenzene	52.4	2.00	ug/L	50.0		105	70-130			
1,3,5-Trimethylbenzene	55.9	2.00	"	50.0		112	70-130			
Benzene	50.2	1.00	"	50.0		100	70-130			
Ethylbenzene	51.1	1.00	"	50.0		102	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	50.9	2.00	"	50.0		102	70-130			
o-Xylene	53.8	1.00	"	50.0		108	70-130			
Toluene	51.7	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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 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 B3G0733 - EPA 5030B (Water)

Matrix Spike (B3G0733-MS1)	Source: Y307015-01			Prepared: 07/07/2023 Analyzed: 07/10/2023						
1,2,4-Trimethylbenzene	587	2.00	ug/L	50.0	720	NR	70-130			QM-07
1,3,5-Trimethylbenzene	492	2.00	"	50.0	490	4.12	70-130			QM-07
Benzene	1340	1.00	"	50.0	2140	NR	70-130			QM-07
Ethylbenzene	593	1.00	"	50.0	514	157	70-130			QM-07
m,p-Xylene	3160	2.00	"	100	6730	NR	70-130			QM-07
Naphthalene	51.2	2.00	"	50.0	18.3	65.9	70-130			QM-07
o-Xylene	838	1.00	"	50.0	1450	NR	70-130			QM-07
Toluene	1210	1.00	"	50.0	5900	NR	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.6	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		108	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3G0733 - EPA 5030B (Water)

Matrix Spike Dup (B3G0733-MSD1)	Source: Y307015-01			Prepared: 07/07/2023 Analyzed: 07/10/2023						
1,2,4-Trimethylbenzene	592	2.00	ug/L	50.0	720	NR	70-130	0.733	20	QM-07
1,3,5-Trimethylbenzene	520	2.00	"	50.0	490	60.9	70-130	5.61	20	QM-07
Benzene	1420	1.00	"	50.0	2140	NR	70-130	5.63	20	QM-07
Ethylbenzene	685	1.00	"	50.0	514	342	70-130	14.4	20	QM-07
m,p-Xylene	3290	2.00	"	100	6730	NR	70-130	4.03	20	QM-07
Naphthalene	51.0	2.00	"	50.0	18.3	65.5	70-130	0.352	20	QM-07
o-Xylene	845	1.00	"	50.0	1450	NR	70-130	0.849	20	QM-07
Toluene	1230	1.00	"	50.0	5900	NR	70-130	1.74	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.1	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	76		"	62.5		121	70-130			

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Martin C Eckert III
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.

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