

**DCP – MEWBOURN GAS PLANT SITE
FORM 27 SUPPLEMENTAL SUMMARY REPORT
Second Quarter 2021 Groundwater**

ATTACHMENTS

Tables

- 1 Groundwater Elevation Summary – June 14, 2021
- 2 Groundwater Analytical Results Summary Table – June 14, 2021 & Historical
- 3 Approved Sampling and Analysis Plan – Soil and Groundwater

Figures

- 1 Site Location Map
- 2 Site Overview Map
- 3 Groundwater Elevation Contour Map – June 14, 2021
- 4 Groundwater Analytical Map – June 14, 2021
- 5 Site Overview Map with Proposed Monitoring Well Locations

Appendix

- A Laboratory Analytical Reports
- Origins Laboratory Report: #Y106317 (Groundwater)

TABLE 1
SECOND QUARTER 2021
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP MEWBOURN GAS PLANT
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW01	3/16/2021	11.39	-	-	22.33	4820.52	4,809.13	NC
MW01	6/14/2021	9.41	-	-	22.33	4820.52	4,811.11	1.98
MW02	3/16/2021	11.84	-	-	23.05	4850.71	4,838.87	NC
MW02	6/14/2021	9.83	-	-	23.05	4850.71	4,840.88	2.01
MW03	3/16/2021	12.09	-	-	22.98	4820.59	4,808.50	NC
MW03	6/14/2021	10.03	-	-	22.98	4820.59	4,810.56	2.06
MW04	3/16/2021	16.81	-	-	25.87	4826.13	4,809.32	NC
MW04	6/14/2021	15.00	-	-	25.87	4826.13	4,811.13	1.81
MW05	3/16/2021	10.79	-	-	22.20	4818.18	4,807.39	NC
MW05	6/14/2021	9.05	-	-	22.20	4818.18	4,809.13	1.74
MW06	3/16/2021	9.91	-	-	21.89	4817.73	4,807.82	NC
MW06	6/14/2021	8.23	-	-	21.89	4817.73	4,809.50	1.68
MW07	4/12/2021	15.91	-	-	25.68	4,826.34	4,810.43	NC
MW07	6/14/2021	14.44	-	-	25.68	4,826.34	4,811.90	1.47
MW08	4/12/2021	11.55	-	-	22.43	4,821.00	4,809.45	NC
MW08	6/14/2021	9.80	-	-	22.43	4,821.00	4,811.20	1.75
MW09	4/12/2021	18.64	-	-	25.33	4,830.54	4,811.90	NC
MW09	6/14/2021	17.23	-	-	25.33	4,830.54	4,813.31	1.41
Average Change in Groundwater Elevation (1Q21 -2Q21)								1.77

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density was assumed to be approximately 0.75

NM = Not Measured

**TABLE 2
SECOND QUARTER 2021 GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
DCP MEWBOURN GAS PLANT
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Lab Report	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	1,2,4-Trimethylbenzene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	Naphthalene (µg/l)	Total Dissolved Solids (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Benzo(a)anthracene (µg/l)	Fluorene (µg/l)	Comments
COGCC Standards (µg/L) ⁽¹⁾			5	560	700	1,400	67	67	140	(<1.25 x local background)	(250 mg/l or <1.25 x local background)	(250 mg/l or <1.25 x local background)	0.16 ⁽²⁾	280 ⁽²⁾	
MW01	3/16/2021	2103245	420	<1.0	500	370	130	75	29	-	-	-	-	-	
MW01	3/19/2021	2103294	-	-	-	-	-	-	-	1,050	291	1,740	<0.100	6.50	
MW01	6/14/2021	Y106317	123	<4.0	210	164	72.9	52.8	<16.0	-	-	-	-	-	Per Approved SAP
MW02	3/16/2021	2103245	1,900	3.8	510	250	320	150	25	620	68.2	4.34	-	-	
MW02	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	2.56	
MW02	6/14/2021	Y106317	1,710	<4.0	644	7,400	579	306	32.1	-	-	-	-	-	Per Approved SAP
MW03	3/16/2021	2103245	120	<1.0	70.0	300	79.0	29.0	3.0	-	-	-	-	-	
MW03	3/19/2021	2103294	-	-	-	-	-	-	-	441	104	1,790	<0.100	<0.200	
MW03	6/14/2021	Y106317	394	<4.0	270	1,350	285	116	<16.0	-	-	-	-	-	Per Approved SAP
MW04	3/16/2021	2103245	45	<1.0	20	67	310	250	5.1	436	4.55	11.0	-	-	
MW04	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	1.76	
MW04	6/14/2021	Y106317	8.8	<4.0	20.7	62.3	322	304	<16.0	-	-	-	-	-	Per Approved SAP
MW05	3/16/2021	2103245	9.4	<1.0	<1.0	6.7	2.8	<1.0	<1.0	-	-	-	-	-	
MW05	3/19/2021	2103294	-	-	-	-	-	-	-	803	240	1,810	<0.100	1.35	
MW05	6/14/2021	Y106317	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<16.0	-	-	-	-	-	Per Approved SAP
MW06	3/16/2021	2103245	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	780	168	194	-	-	
MW06	3/19/2021	2103294	-	-	-	-	-	-	-	-	-	-	<0.100	<0.200	
MW06	6/14/2021	Y106317	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	-	-	-	-	-	Per Approved SAP
MW07	4/12/2021	Y104191	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	652	<62.5	85.1	<0.02	0.0143 J	
MW07	6/14/2021	Y106317	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	-	-	-	-	-	Per Approved SAP
MW08	4/12/2021	Y104191	<4.0	<4.0	154	1020	463	296	<16.0	704	89.9	<62.5	<0.1	0.667	
MW08	6/14/2021	Y106317	<1.0	3.26	142	876	548	331	13.0	-	-	-	-	-	Per Approved SAP
MW09	4/12/2021	Y104191	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	520	<62.5	<62.5	<0.02	0.0115 J	
MW09	6/14/2021	Y106317	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	-	-	-	-	-	Per Approved SAP
Surface Water-01	3/19/2021	2103294	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	783	264	2,140	<1.0	<2.0	

Notes:

- 1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.
- 2). Standards are taken from the Colorado Department of Public Health and Environment - Water Quality Control Commission, 5 CCR 1002-41, Table A - Groundwater Organic Chemical Standards.

Bold values indicate an exceedance of the COGCC groundwater standards for the Site.

µg/L = micrograms per liter.

mg/L = milligrams per liter.

TABLE 3
SITE SPECIFIC SOIL and GROUNDWATER SAMPLING AND ANALYSIS PLAN
DCP MIDSTREAM - MEWBOURN GAS PLANT

Site Specific Constituent of Concern for Soil Analysis	COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2)
Benzene (mg/kg)	0.0026 (M)
Toluene (mg/kg)	0.69 (M)
Ethylbenzene (mg/kg)	0.78 (M)
Total Xylenes (mg/kg)	9.9 (M)
1,2,4 Trimethylbenzene (mg/kg)	0.0081 (R)
TPH (mg/kg)	500
Benz(a)anthracene (mg/kg)	0.011 (R)
Fluorene (mg/kg)	0.54 (R)
1-methylnaphthalene (mg/kg)	0.006 (R)
2-methylnaphthalene (mg/kg)	0.019 (R)
Naphthalene (mg/kg)	0.0038 (R)
Site Specific Constituent of Concern for Groundwater Analysis	COGCC Table 915-1 Groundwater Standards (µg/L) ⁽⁴⁾
Benzene (µg/l)	5
Toluene (µg/l)	560
Ethylbenzene (µg/l)	700
Total Xylenes (µg/l)	1400
1,2,4-Trimethylbenzene (µg/l)	67
1,3,5-Trimethylbenzene (µg/l)	67
Naphthalene (µg/l)	140

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

3). EC, SAR, pH, and boron will be analyzed from soil samples collected in the root bearing zone subsequent to invasive remediation activities and prior to reclamation planning.

4). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.

TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₆) hydrocarbons

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mg/kg= Milligrams per kilogram.

mmhos/cm - millimhos per centimeter

SU - Standard units

mg/l - Milligrams per liter

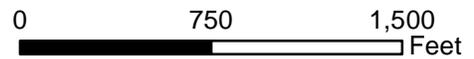
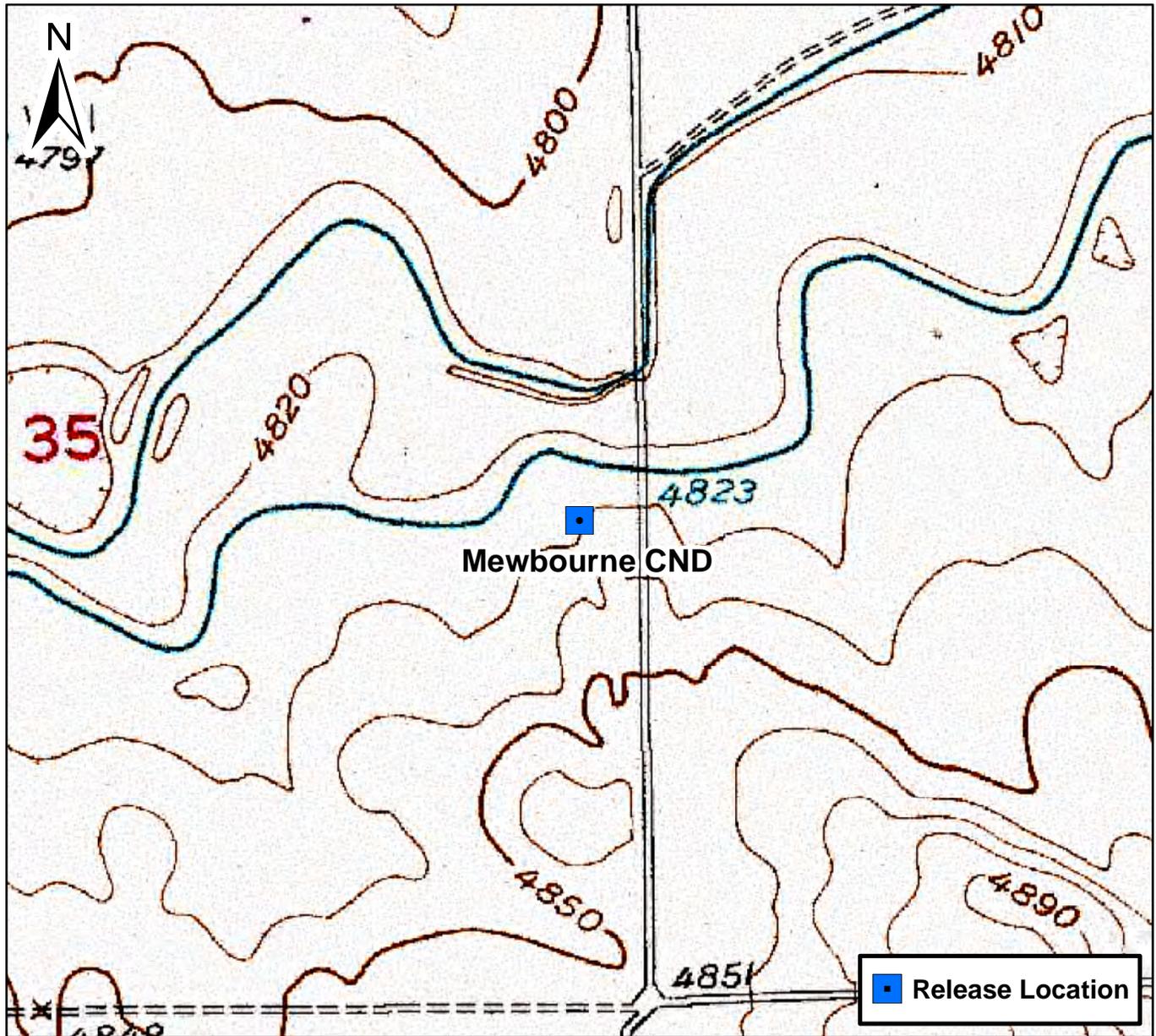


Figure 1

Site Location Map
 Mewbourn CND
 NESE S35 T4N R66W
 Weld County, Colorado





DATE: April 2021

DESIGNED BY: B. Humphrey

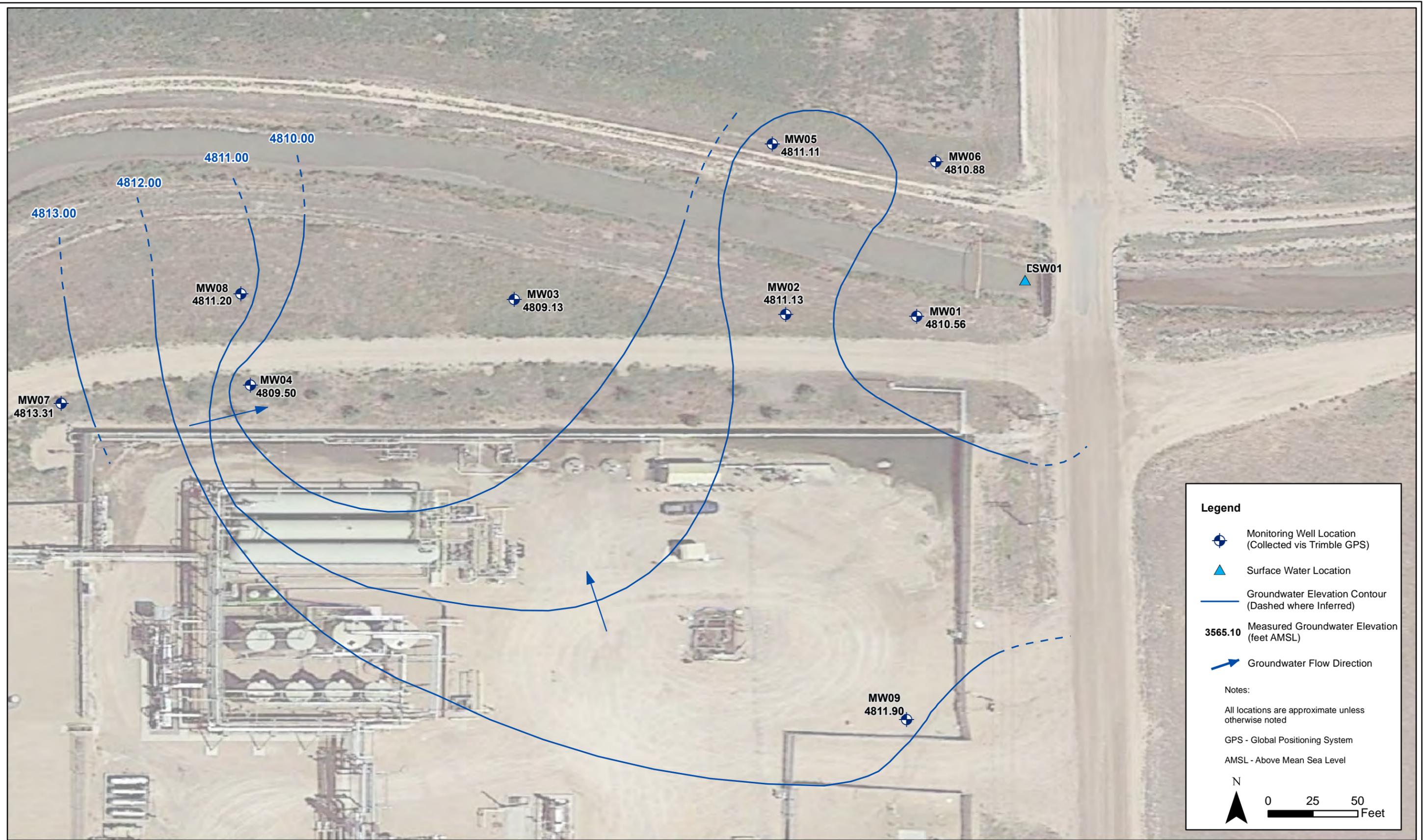
DRAWN BY: J. Clonts



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Site Overview Map

Figure
 2



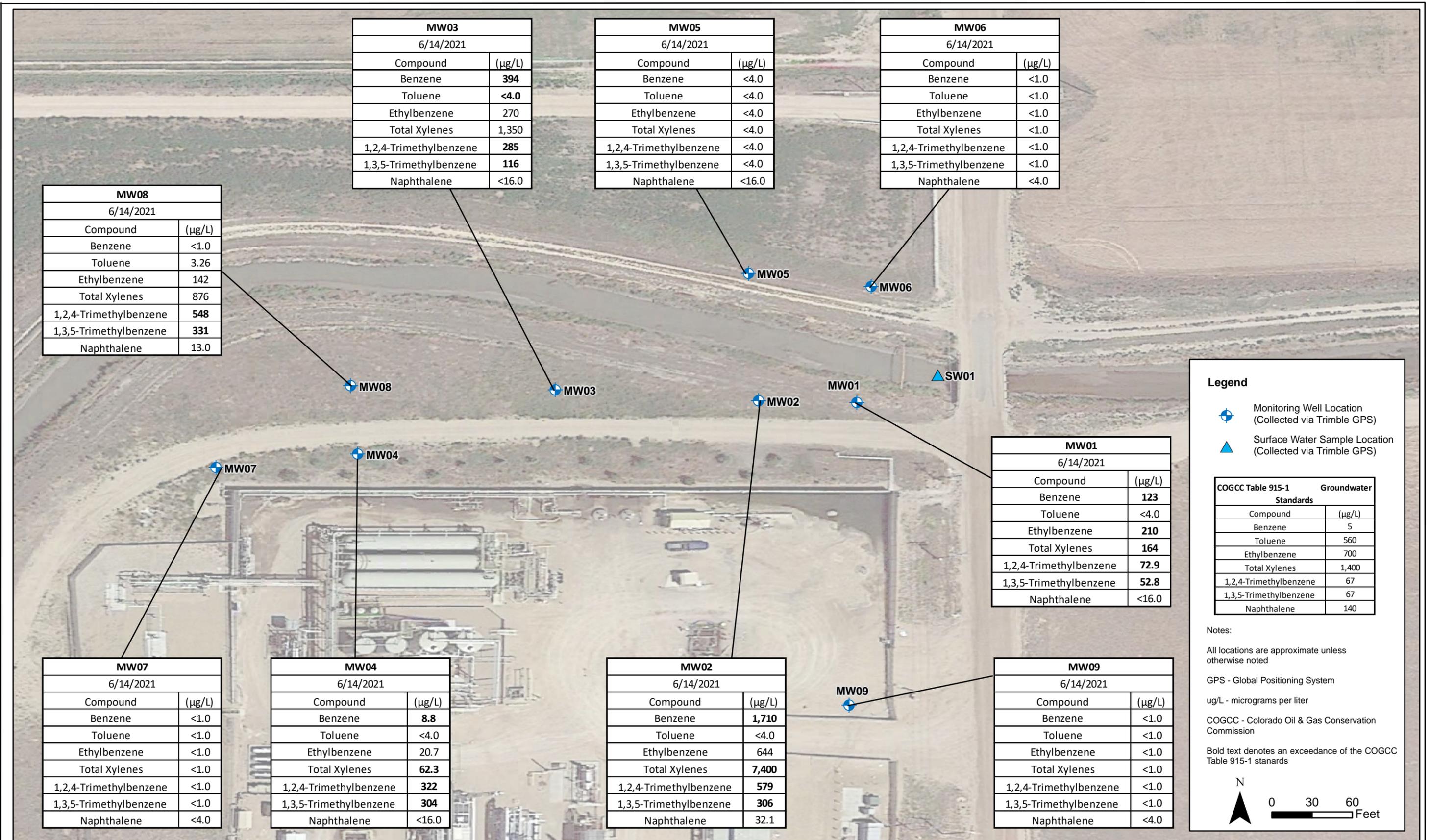
DATE: June 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: C. Ambler



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (June 14, 2021)

Figure
 3



Legend

- Monitoring Well Location (Collected via Trimble GPS)
- Surface Water Sample Location (Collected via Trimble GPS)

COGCC Table 915-1 Groundwater Standards	
Compound	(µg/L)
Benzene	5
Toluene	560
Ethylbenzene	700
Total Xylenes	1,400
1,2,4-Trimethylbenzene	67
1,3,5-Trimethylbenzene	67
Naphthalene	140

Notes:
 All locations are approximate unless otherwise noted
 GPS - Global Positioning System
 ug/L - micrograms per liter
 COGCC - Colorado Oil & Gas Conservation Commission
 Bold text denotes an exceedance of the COGCC Table 915-1 standards

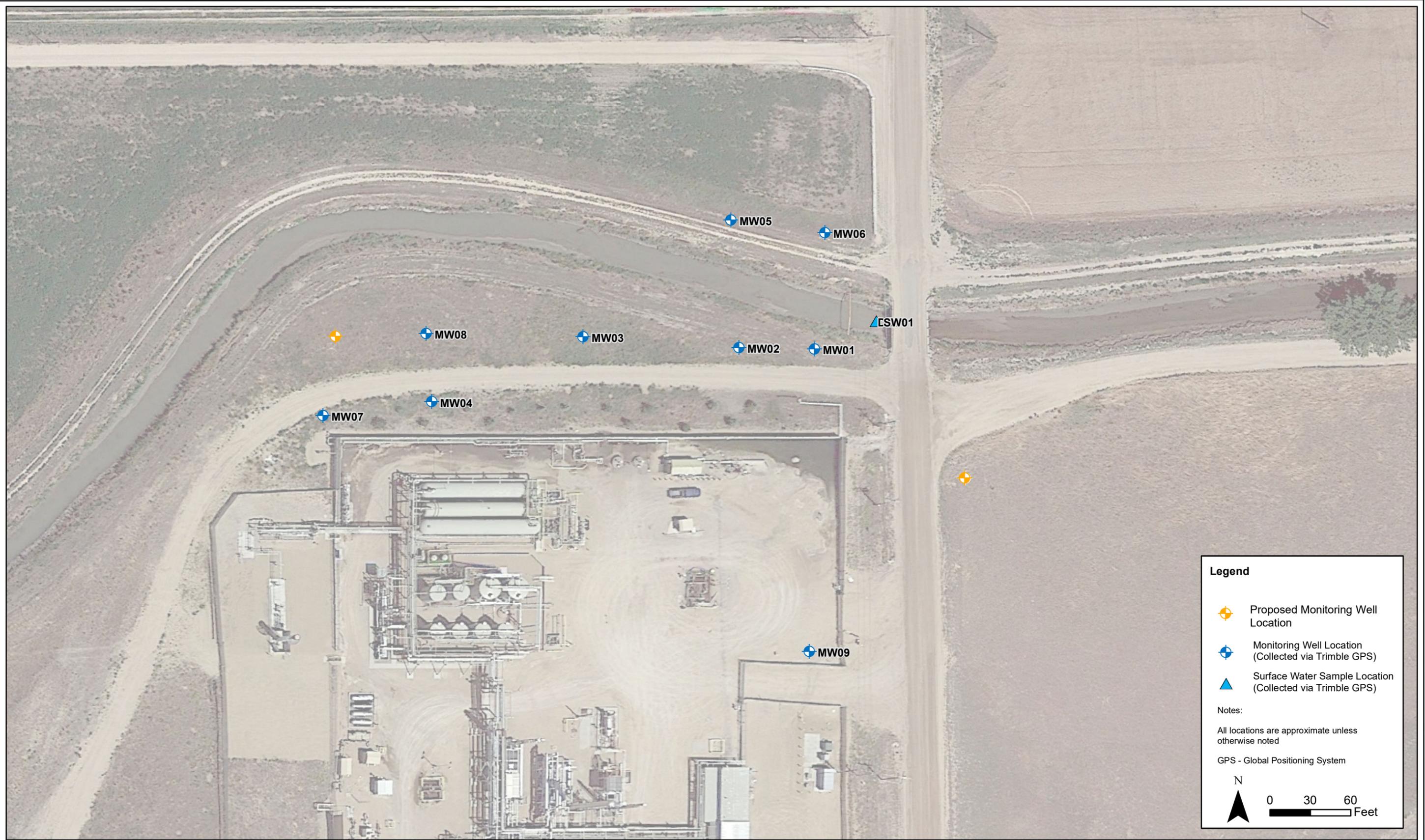
DATE: June 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: C. Ambler



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical
 Results Map
 (June 14, 2021)

Figure
 3



DATE: April 2021
 DESIGNED BY: B. Humphrey
 DRAWN BY: J. Clonts



**DCP Midstream – DJ Basin
 Mewbourn CND**
 NESE, Section 35, Township 4 North, Range 66 West
 Weld County, Colorado

Site Overview Map -
 Proposed Well
 Locations

Figure
 5



June 21, 2021

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP - Mewbourne CND

Project Number - [none]

Attached are your analytical results for DCP - Mewbourne CND received by Origins Laboratory, Inc. June 14, 2021. This project is associated with Origins project number Y106317-01.

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

Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne CND

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y106317-01	Water	June 14, 2021 13:07	06/14/2021 15:25
MW02	Y106317-02	Water	June 14, 2021 13:21	06/14/2021 15:25
MW03	Y106317-03	Water	June 14, 2021 12:52	06/14/2021 15:25
MW04	Y106317-04	Water	June 14, 2021 12:21	06/14/2021 15:25
MW05	Y106317-05	Water	June 14, 2021 11:33	06/14/2021 15:25
MW06	Y106317-06	Water	June 14, 2021 11:50	06/14/2021 15:25
MW07	Y106317-07	Water	June 14, 2021 12:09	06/14/2021 15:25
MW08	Y106317-08	Water	June 14, 2021 12:35	06/14/2021 15:25
MW09	Y106317-09	Water	June 14, 2021 13:44	06/14/2021 15:25

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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

www.originslaboratory.com

1106317

page | of |

ORIGINS
 LABORATORY, INC

Client: DCP/Tasman
 Address: 6855 W 119th Ave
Broomfield, CO 80020
 Telephone Number: 303-433-1322
 Email Address: bhumphrey@tasman-geo.com
clmerrill@tasman-geo.com suman@tasman-geo.com

Fax: 303.265.9645

Project Manager: Brian Humphrey / Steve Weathers
 Project Name: Mewbourne CND
 Project Number: _____
 Samples Collected By: Brian Gabel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Dr Summa #			Other
MW01	6/14/21	1307	3	X	X	X		X					
MW02		1321											
MW03		1252											
MW04		1221											
MW05		1133											
MW06		1150											
MW07		1209											
MW08		1235											
MW09		1344											
Relinquished by: <u>[Signature]</u>	Date: <u>6/14/21</u>	Time: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>6/14/21</u>	Time: <u>1525</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard						
Relinquished by: _____	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____							

Temp Received: 5.1 Date Results Needed: _____

Origins Laboratory, Inc.


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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y106317 Client: Tasman
 Client Project ID: Mewbourne CND
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 6/15/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 5.1 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 1003

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

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

Reviewed by (Project Manager) Jm Date/Time Reviewed 6-16-21

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW01

6/14/2021 1:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	72.9	4.00	ug/L	4	B1F1514	KDK	06/15/2021	06/16/2021	
1,3,5-Trimethylbenzene	52.8	4.00	"	"	"	KDK	"	"	
Benzene	123	4.00	"	"	"	KDK	"	"	
Ethylbenzene	210	4.00	"	"	"	KDK	"	"	
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	164	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW02

6/14/2021 1:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	579	50.0	ug/L	50	B1F1514	KDK	06/15/2021	06/16/2021	
1,3,5-Trimethylbenzene	306	50.0	"	"	"	KDK	"	"	
Benzene	1710	50.0	"	"	"	KDK	"	"	
Ethylbenzene	644	50.0	"	"	"	KDK	"	"	
Naphthalene	32.1	16.0	"	4	"	KDK	"	06/16/2021	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	7400	50.0	"	50	"	KDK	"	06/16/2021	

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"		06/16/2021	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"		"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW03

6/14/2021 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	285	4.00	ug/L	4	B1F1514	KDK	06/15/2021	06/16/2021	
1,3,5-Trimethylbenzene	116	4.00	"	"	"	KDK	"	"	
Benzene	394	4.00	"	"	"	KDK	"	"	
Ethylbenzene	270	4.00	"	"	"	KDK	"	"	
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	1350	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW04

6/14/2021 12:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	322	4.00	ug/L	4	B1F1514	KDK	06/15/2021	06/16/2021	
1,3,5-Trimethylbenzene	304	4.00	"	"	"	KDK	"	"	
Benzene	8.80	4.00	"	"	"	KDK	"	"	
Ethylbenzene	20.7	4.00	"	"	"	KDK	"	"	
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	62.3	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

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 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW05

6/14/2021 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	4.00	ug/L	4	B1F1514	KDK	06/15/2021	06/16/2021	U
1,3,5-Trimethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Benzene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW06

6/14/2021 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-06 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1F1514	KDK	06/15/2021	06/16/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW07

6/14/2021 12:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-07 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1F1514	KDK	06/15/2021	06/16/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW08

6/14/2021 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-08 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	548	10.0	ug/L	10	B1F1514	KDK	06/15/2021	06/16/2021	
1,3,5-Trimethylbenzene	331	10.0	"	"	"	KDK	"	"	
Benzene	ND	1.00	"	1	"	KDK	"	06/16/2021	U
Ethylbenzene	142	1.00	"	"	"	KDK	"	"	
Naphthalene	13.0	4.00	"	"	"	KDK	"	"	
Toluene	3.26	1.00	"	"	"	KDK	"	"	
Xylenes, total	876	10.0	"	10	"	KDK	"	06/16/2021	

Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"		"	
Surrogate: Toluene-d8	111 %	70-130			"	"		06/16/2021	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"		"	

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 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

MW09

6/14/2021 1:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106317-09 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B1F1514	KDK	06/15/2021	06/16/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	06/16/2021	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130			"	"	"	

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 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B1F1514 - EPA 5030B (Water)

Blank (B1F1514-BLK1)

Prepared: 06/15/2021 Analyzed: 06/15/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5	124		70-130			
Surrogate: Toluene-d8	63		"	62.5	100		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.0		70-130			

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 Project: DCP - Mewbourne CND

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 B1F1514 - EPA 5030B (Water)

LCS (B1F1514-BS1)

Prepared: 06/15/2021 Analyzed: 06/15/2021

1,2,4-Trimethylbenzene	53.1	1.00	ug/L	50.0		106	70-130			
1,3,5-Trimethylbenzene	55.5	1.00	"	50.0		111	70-130			
Benzene	45.0	1.00	"	50.0		89.9	70-130			
Ethylbenzene	51.6	1.00	"	50.0		103	70-130			
m,p-Xylene	106	2.00	"	100		106	70-130			
Naphthalene	54.5	4.00	"	50.0		109	70-130			
o-Xylene	52.4	1.00	"	50.0		105	70-130			
Toluene	47.2	1.00	"	50.0		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		"	62.5		117	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Brian Humphrey
 Project Number: [none]
 Project: DCP - Mewbourne CND

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 B1F1514 - EPA 5030B (Water)

Matrix Spike (B1F1514-MS1)	Source: Y106317-06			Prepared: 06/15/2021 Analyzed: 06/15/2021						
1,2,4-Trimethylbenzene	53.9	1.00	ug/L	50.0	ND	108	70-130			
1,3,5-Trimethylbenzene	54.6	1.00	"	50.0	ND	109	70-130			
Benzene	45.1	1.00	"	50.0	ND	90.1	70-130			
Ethylbenzene	51.1	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	104	2.00	"	100	0.390	103	70-130			
Naphthalene	56.0	4.00	"	50.0	ND	112	70-130			
o-Xylene	52.0	1.00	"	50.0	ND	104	70-130			
Toluene	48.1	1.00	"	50.0	ND	96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	76		"	62.5		122	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Brian Humphrey
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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 B1F1514 - EPA 5030B (Water)

Matrix Spike Dup (B1F1514-MSD1)	Source: Y106317-06			Prepared: 06/15/2021 Analyzed: 06/15/2021						
1,2,4-Trimethylbenzene	55.2	1.00	ug/L	50.0	ND	110	70-130	2.27	20	
1,3,5-Trimethylbenzene	56.5	1.00	"	50.0	ND	113	70-130	3.40	20	
Benzene	46.4	1.00	"	50.0	ND	92.7	70-130	2.80	20	
Ethylbenzene	52.9	1.00	"	50.0	ND	106	70-130	3.46	20	
m,p-Xylene	108	2.00	"	100	0.390	108	70-130	4.43	20	
Naphthalene	55.4	4.00	"	50.0	ND	111	70-130	1.06	20	
o-Xylene	52.6	1.00	"	50.0	ND	105	70-130	1.15	20	
Toluene	48.8	1.00	"	50.0	ND	97.6	70-130	1.47	20	
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5		123	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP - Mewbourne CND

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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