

**DCP GREELEY GAS PLANT SITE
FOURTH QUARTER 2019
FORM 27 SUPPLEMENTAL GROUNDWATER MONITORING SUMMARY REPORT**

ATTACHMENTS

Tables

- 1 Fourth Quarter 2019 Summary of Groundwater Elevation Data
- 2 Fourth Quarter 2019 Summary of BTEX Concentrations in Groundwater
- 3 Historical BTEX Concentrations in Groundwater

Figures

- 1 Site Location Map
- 2 Site Overview Map with Monitoring Well Locations
- 3 Groundwater Elevation Contour Map – November 13, 2019
- 4 Groundwater Elevation Contour Map – November 13, 2019

Appendices

- A Laboratory Analytical Report
 - Origins Laboratory Job #: Y911222

**TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP GREELEY 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	2/1/2019	10.46	NM	--	13.83	4,678.49	4,668.03	-0.67
MW01	4/25/2019	7.65	NM	--	13.83	4,678.49	4,670.84	2.81
MW01	7/29/2019	7.80	NM	--	13.70	4,678.49	4,670.69	-0.15
MW01	8/28/2019	8.29	NM	--	13.70	4,678.49	4,670.20	-0.49
MW01	11/13/2019	9.82	NM	--	13.70	4,678.49	4,668.67	-1.53
MW02	2/1/2019	11.22	NM	--	14.23	4,679.37	4,668.15	-0.69
MW02	4/25/2019	8.73	NM	--	14.23	4,679.42	4,670.69	2.54
MW02	7/29/2019	8.56	NM	--	14.13	4,679.42	4,670.86	0.17
MW02	8/28/2019	9.05	NM	--	14.13	4,679.42	4,670.37	-0.49
MW02	11/13/2019	10.58	NM	--	14.13	4,679.42	4,668.84	-1.53
MW03	2/1/2019	11.41	NM	--	14.67	4,679.67	4,668.26	-0.65
MW03	4/25/2019	8.97	NM	--	14.67	4,679.67	4,670.70	2.44
MW03	7/29/2019	8.76	NM	--	14.65	4,679.67	4,670.91	0.21
MW03	8/28/2019	9.31	NM	--	14.65	4,679.67	4,670.36	-0.55
MW03	11/13/2019	10.82	NM	--	14.65	4,679.67	4,668.85	-1.51
MW04	2/1/2019	11.32	NM	--	14.13	4,679.44	4,668.12	-0.68
MW04	4/25/2019	8.70	NM	--	14.13	4,679.44	4,670.74	2.62
MW04	7/29/2019	8.67	NM	--	14.10	4,679.44	4,670.77	0.03
MW04	8/28/2019	9.16	NM	--	14.10	4,679.44	4,670.28	-0.49
MW04	11/13/2019	10.69	NM	--	14.10	4,679.44	4,668.75	-1.53
MW05	4/25/2019	9.14	NM	--	14.37	4,679.79	4,670.65	NA
MW05	7/29/2019	8.86	NM	--	14.29	4,679.79	4,670.93	0.28
MW05	8/28/2019	9.36	NM	--	14.29	4,679.79	4,670.43	-0.50
MW05	11/13/2019	10.87	NM	--	14.29	4,679.79	4,668.92	-1.51
MW06	4/25/2019	8.53	NM	--	14.46	4,679.21	4,670.68	NA
MW06	7/29/2019	8.54	NM	--	14.45	4,679.21	4,670.67	-0.01
MW06	8/28/2019	8.95	NM	--	14.45	4,679.21	4,670.26	-0.41
MW06	11/13/2019	10.50	NM	--	14.45	4,679.21	4,668.71	-1.55
MW07	4/25/2019	7.17	NM	--	13.89	4,678.01	4,670.84	NA
MW07	7/29/2019	7.32	NM	--	13.72	4,678.01	4,670.69	-0.15
MW07	8/28/2019	7.83	NM	--	13.72	4,678.01	4,670.18	-0.51
MW07	11/13/2019	9.35	NM	--	13.72	4,678.01	4,668.66	-1.52
MW08	4/25/2019	6.00	NM	--	12.86	4,676.99	4,670.99	NA
MW08	7/29/2019	6.56	NM	--	12.81	4,676.99	4,670.43	-0.56
MW08	8/28/2019	6.40	NM	--	12.81	4,676.99	4,670.59	0.16
MW08	11/13/2019	8.49	NM	--	12.81	4,676.99	4,668.50	-2.09
MW09	9/6/2019	10.75	NM	--	13.90	4,680.86	4,670.11	NA
MW09	11/13/2019	12.01	NM	--	13.85	4,680.86	4,668.85	-1.26
MW10	9/6/2019	9.78	NM	--	13.75	4,679.97	4,670.19	NA
MW10	11/13/2019	11.04	NM	--	13.69	4,679.97	4,668.93	-1.26
Average change in groundwater elevation MW01 through MW08 (8/28/2019 through 11/13/2019)								-1.60

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)

NA = Not Applicable

TABLE 2
FOURTH QUARTER 2019 BTEX CONCENTRATIONS IN GROUNDWATER
DCP GREELEY GAS PLANT
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	11/13/2019	368	20.3	228	684	
MW02	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW03	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW04	11/13/2019	261	95.7	51.5	142	
MW05	11/13/2019	16.7	<1.00	<1.00	<1.00	
MW06	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW07	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW08	11/13/2019	12.9	<1.00	<1.00	<1.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW10	11/13/2019	<1.00	<1.00	<1.00	<1.00	

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 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

µg/L = micrograms per liter.

TABLE 3
HISTORICAL SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP GREELEY GAS PLANT
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
MW01	12/4/2018	6,290	27.8	512	4,800	
MW01	2/1/2019	4,740	1,050	648	4,370	
MW01	4/25/2019	370	49.3	38.0	624.5	
MW01	7/29/2019	417	28.9	224	666	
MW01	8/28/2019	620	<4.00	144	391	3Q19 - Resample
MW01	11/13/2019	368	20.3	228	684	
MW02	12/4/2018	24.1	<1.00	<1.00	<1.00	
MW02	2/1/2019	13.9	<1.00	<1.00	<1.00	
MW02	4/25/2019	823	15.6	14.1	65.7	
MW02	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW02	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW02	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW03	12/4/2018	13.6	<1.00	<1.00	<1.00	
MW03	2/1/2019	1.36	<1.00	<1.00	<1.00	
MW03	4/25/2019	575	<1.00	1.04	<1.00	
MW03	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW03	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW03	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW04	12/4/2018	562	66.7	244	2,310	
MW04	2/1/2019	123	7.96	230	1,550	
MW04	4/25/2019	2,570	53.3	235	4,190	
MW04	7/29/2019	191	<20.0	274	2,300	
MW04	8/28/2019	37.3	<1.00	157	727	3Q19 - Resample
MW04	11/13/2019	261	95.7	51.5	142	
MW05	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW05	7/29/2019	10.8	<1.00	<1.00	<1.00	
MW05	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW05	11/13/2019	16.7	<1.00	<1.00	<1.00	
MW06	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW06	7/29/2019	194	<1.00	258	2,190	
MW06	8/28/2019	<4.00	<4.00	<4.00	116	3Q19 - Resample
MW06	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW07	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW07	7/29/2019	<1.00	<1.00	<1.00	<1.00	
MW07	8/28/2019	<4.00	<4.00	<4.00	<4.00	3Q19 - Resample
MW07	11/13/2019	<1.00	<1.00	<1.00	<1.00	
MW08	4/25/2019	<1.00	<1.00	<1.00	<1.00	
MW08	7/29/2019	9.57	<1.00	<1.00	<1.00	
MW08	8/28/2019	14.2	<4.00	<4.00	<4.00	3Q19 - Resample
MW08	11/13/2019	12.9	<1.00	<1.00	<1.00	
MW09	09/06/19	<4.00	<4.00	<4.00	<4.00	
MW09	11/13/2019	1.29	<1.00	<1.00	<1.00	
MW10	09/06/19	<1.00	<1.00	<1.00	<1.00	
MW10	11/13/2019	<1.00	<1.00	<1.00	<1.00	
SW01	09/04/19	<1.00	<1.00	<1.00	<1.00	One-time sample from adjacent creek

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 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

µg/L = micrograms per liter.

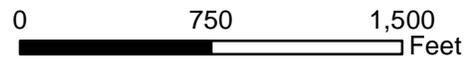
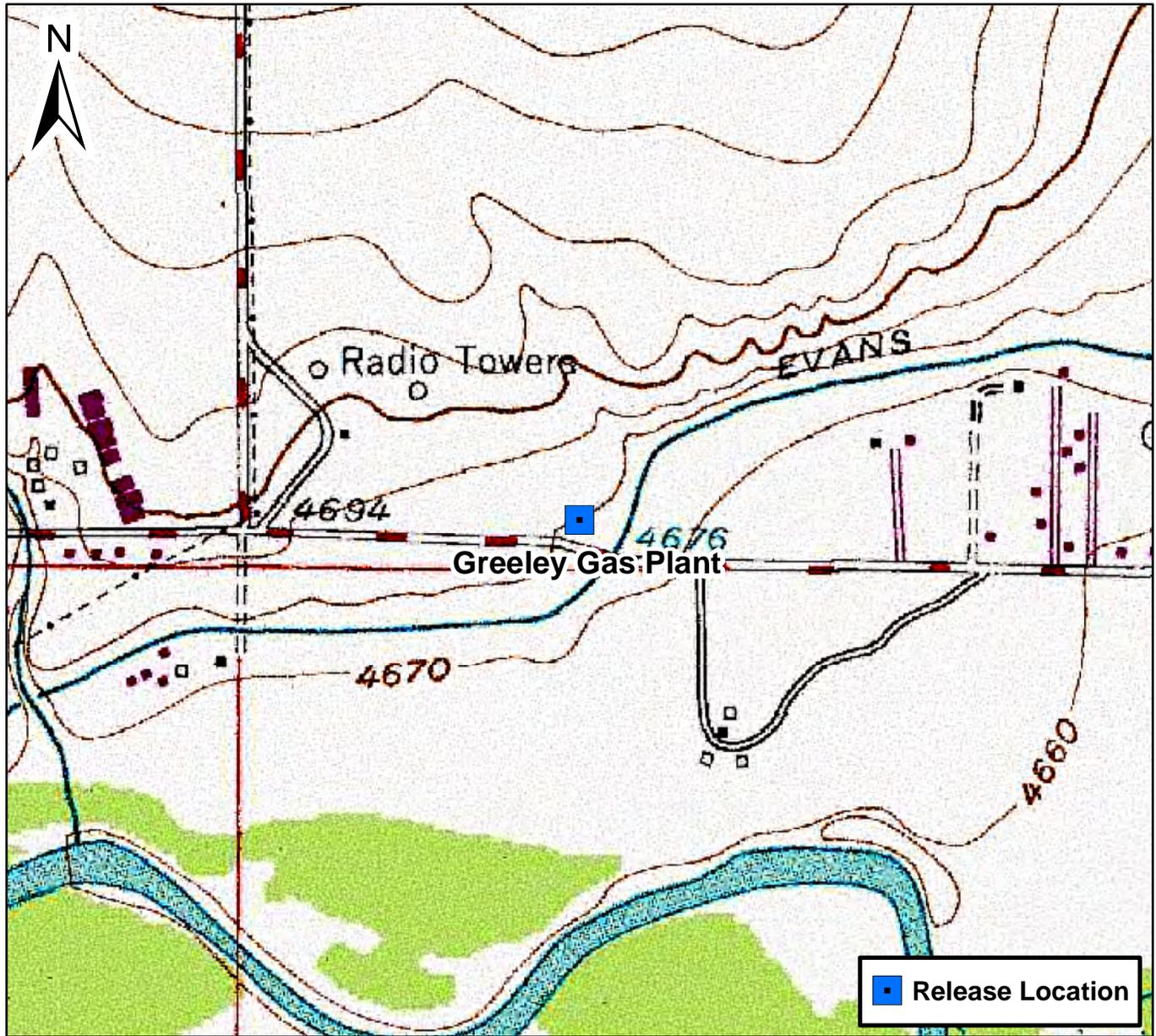


Figure 1

Site Location Map
 Greeley Gas Plant
 SESW S25 T5N R66W
 Weld County, Colorado

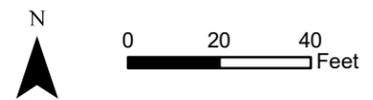




Legend

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

Notes:
GPS - Global Positioning System



Imagery Source: Google Earth; 2016 Google

DATE:	October 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin

TASMAN Tasman Geosciences, Inc
6855 W. 119th Ave
Broomfield, CO 80020

**DCP Midstream
Greeley Gas Plant**
SESW Section 25, Township 5 North, Range 66 West
Weld County, Colorado

Site Overview
Map

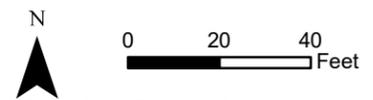
Figure
2



Legend

-  Monitoring Well Location
(Collected via Trimble GPS)
-  Proposed Monitoring Well Location
-  Surface Water Sample Location
(Approximate)
-  Groundwater Elevation Contour
(Dashed where inferred)
-  Approximate Groundwater Flow
Direction (11/13/2019)
- 4670.84** Measured Groundwater Elevation
(ft AMSL)

Notes:
 Ft AMSL - Feet Above Mean Sea Level
 GPS - Global Positioning System



Imagery Source: Google Earth; 2016 Google

DATE:	November 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin

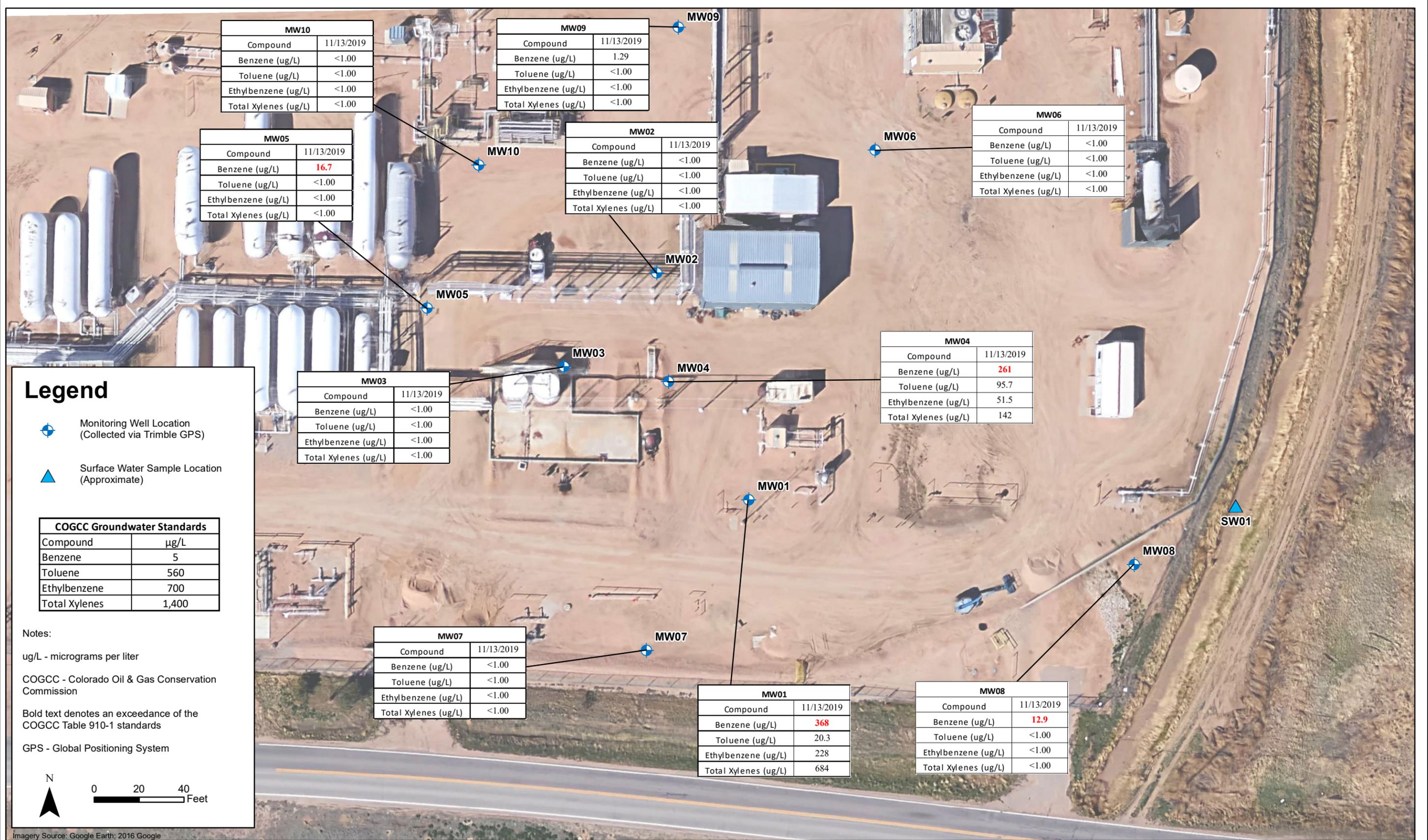


TASMAN Tasman Geosciences, Inc
 6855 W. 119th Ave
 GEOSCIENCES Broomfield, CO 80020

**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (November 13, 2019)

Figure
 3



DATE: November 2019
 DESIGNED BY: B. Humphrey
 DRAWN BY: L. Martin



**DCP Midstream
 Greeley Gas Plant**
 SESW Section 25, Township 5 North, Range 66 West
 Weld County, Colorado

Groundwater Analytical Map
 (November 13, 2019)

Figure
 4

November 19, 2019

Tasman Geosciences

Brian Humphrey

6855 West 119th Avenue

Broomfield CO 80020

Project Name - DCP Greeley Gas Plant

Project Number - [none]

Attached are your analytical results for DCP Greeley Gas Plant received by Origins Laboratory, Inc. November 13, 2019. This project is associated with Origins project number Y911222-01.

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



Tasman Geosciences
6855 West 119th Avenue
Broomfield CO 80020

Brian Humphrey
Project Number: [none]
Project: DCP Greeley Gas Plant

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01 - 111319	Y911222-01	Water	November 13, 2019 13:14	11/13/2019 14:56
MW02 - 111319	Y911222-02	Water	November 13, 2019 12:13	11/13/2019 14:56
MW03 - 111319	Y911222-03	Water	November 13, 2019 12:34	11/13/2019 14:56
MW04 - 111319	Y911222-04	Water	November 13, 2019 13:24	11/13/2019 14:56
MW05 - 111319	Y911222-05	Water	November 13, 2019 12:03	11/13/2019 14:56
MW06 - 111319	Y911222-06	Water	November 13, 2019 11:31	11/13/2019 14:56
MW07 - 111319	Y911222-07	Water	November 13, 2019 12:46	11/13/2019 14:56
MW08 - 111319	Y911222-08	Water	November 13, 2019 13:01	11/13/2019 14:56
MW09 - 111319	Y911222-09	Water	November 13, 2019 11:44	11/13/2019 14:56
MW10 - 111319	Y911222-10	Water	November 13, 2019 11:53	11/13/2019 14:56

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 Greeley Gas Plant



www.originslaboratory.com

7911222

page 1 of 1

Client: DCP - / Tasman
 Project Manager/Send Report To: Brian Humphrey
 Address: 6855 W 119th Ave
 Broomfield, CO 80020
 Email Address: bhumphrey@tasman-geo.com
 Project Name/Number: Greeley Gas Plant
 Telephone Number: 303-487-1228
 Samples Collected By: Brian Gebel

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
M1001-111319	11/13/19	1314	3	X				X					1
M1002-111319		1213	3	X				X					2
M1003-111319		1234	3	X				X					3
M1004-111319		1324	3	X				X					4
M1005-111319		1203	3	X				X					5
M1006-111319		1131	3	X				X					6
M1007-111319		1246	3	X				X					7
M1008-111319		1301	3	X				X					8
M1009-111319		1144	3	X				X					9
M1010-111319		1153	3	X				X					10
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Turnaround Time:						
	11/13/19	1456	1456		11-13-19	1456	Same Day <input type="checkbox"/>						
							48 Hr <input type="checkbox"/>						
							Standard <input checked="" type="checkbox"/>						

Date Recv'd: Naardorf

4.4

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 Greeley Gas Plant

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 111222

Client: Tasman

Client Project ID: Greeley GP

Checklist Completed by: JG

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

Date/time completed: 11/14/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.4 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T003

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"/>	<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) JG

Date/Time Reviewed 11/15/19

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 Greeley Gas Plant

MW01 - 111319
11/13/2019 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y911222-01 (Water)

BTEX by EPA 8260D

Benzene	368	10.0	ug/L	10	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	20.3	1.00	"	1	"	KDK	"	11/18/2019	
Ethylbenzene	228	1.00	"	"	"	KDK	"	"	
Xylenes, total	684	10.0	"	10	"	KDK	"	11/18/2019	

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"		"	
Surrogate: Toluene-d8	85.5 %	70-130			"	"		11/18/2019	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"		11/18/2019	

Origins Laboratory, Inc.



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Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW02 - 111319
11/13/2019 12:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-02 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130			"	"		11/18/2019	
Surrogate: Toluene-d8	96.7 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW03 - 111319
11/13/2019 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y911222-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.5 %	70-130			"	"		11/18/2019	
Surrogate: Toluene-d8	95.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	104 %	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW04 - 111319
11/13/2019 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-04 (Water)

BTEX by EPA 8260D

Benzene	261	10.0	ug/L	10	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	95.7	10.0	"	"	"	KDK	"	"	
Ethylbenzene	51.5	10.0	"	"	"	KDK	"	"	
Xylenes, total	142	10.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	90.7 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.5 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %			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 Greeley Gas Plant

MW05 - 111319
11/13/2019 12:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-05 (Water)

BTEX by EPA 8260D

Benzene	16.7	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130			"	"		"	
Surrogate: Toluene-d8	94.4 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	110 %	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 Greeley Gas Plant

MW06 - 111319
11/13/2019 11:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/16/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW07 - 111319
11/13/2019 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	88.2 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	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 Greeley Gas Plant

MW08 - 111319

11/13/2019 1:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-08 (Water)

BTEX by EPA 8260D

Benzene	12.9	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/18/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	87.4 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.5 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	108 %	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 Greeley Gas Plant

MW09 - 111319
11/13/2019 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-09 (Water)

BTEX by EPA 8260D

Benzene	1.20	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/15/2019	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"		"	
Surrogate: Toluene-d8	97.9 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"		"	

Origins Laboratory, Inc.



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

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

MW10 - 111319
11/13/2019 11:53:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y911222-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B9K1405	KDK	11/14/2019	11/15/2019	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

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 B9K1405 - EPA 5030B (Water)

Blank (B9K1405-BLK1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		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 Greeley Gas Plant

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 B9K1405 - EPA 5030B (Water)

LCS (B9K1405-BS1)

Prepared: 11/14/2019 Analyzed: 11/16/2019

Benzene	54.8	1.00	ug/L	50.0		110	70-130			
Toluene	56.0	1.00	"	50.0		112	70-130			
Ethylbenzene	55.8	1.00	"	50.0		112	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	56.4	1.00	"	50.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	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 Greeley Gas Plant

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 B9K1405 - EPA 5030B (Water)

Matrix Spike (B9K1405-MS1)	Source: Y911222-06			Prepared: 11/14/2019 Analyzed: 11/16/2019						
Benzene	46.4	1.00	ug/L	50.0	ND	92.9	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Ethylbenzene	48.0	1.00	"	50.0	ND	96.1	70-130			
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130			
o-Xylene	47.3	1.00	"	50.0	0.080	94.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		105	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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.

Tasman Geosciences
 6855 West 119th Avenue
 Broomfield CO 80020

Brian Humphrey
 Project Number: [none]
 Project: DCP Greeley Gas Plant

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 B9K1405 - EPA 5030B (Water)

Matrix Spike Dup (B9K1405-MSD1)	Source: Y911222-06			Prepared: 11/14/2019 Analyzed: 11/16/2019						
Benzene	45.0	1.00	ug/L	50.0	ND	90.0	70-130	3.17	20	
Toluene	48.6	1.00	"	50.0	ND	97.1	70-130	4.23	20	
Ethylbenzene	47.6	1.00	"	50.0	ND	95.2	70-130	0.899	20	
m,p-Xylene	92.3	2.00	"	100	ND	92.3	70-130	2.03	20	
o-Xylene	47.1	1.00	"	50.0	0.080	94.0	70-130	0.551	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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 Greeley Gas Plant

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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