



DCP Midstream
370 17th Street, Suite 2500
Denver, CO 80202
303-595-3331
303-605-2226 FAX

April 26, 2016

Mr. Rick Allison
Environmental Protection Specialist
Colorado Oil and Gas Conversation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

Via EMAIL

**RE: 1st Quarter 2016 Groundwater Monitoring Summary Report
Eaton Commons Release – Remediation # 9251
Weld County, Colorado**

Dear Mr. Allison:

DCP Midstream, LP (DCP), is pleased to submit for your review, a one copy of the 1st Quarter 2016 Groundwater Monitoring Report for the DCP Eaton Commons Releases located in Eaton, Colorado (NE ¼ , SE ¼ Section 31, T7N, R65E).

If you have any questions regarding the report, please call me at 303-605-1718 or email me at sweathers@dcpmidstream.com.

Sincerely

DCP Midstream, LP

A handwritten signature in black ink, appearing to read "Stephen Weathers", followed by a long horizontal line.

Stephen Weathers, P.G.
Principal Environmental Specialist

cc: Environmental Files

First Quarter 2016 Groundwater Monitoring Summary Report

Eaton Commons Release Weld County, Colorado Remediation #9251

Prepared for:



370 17th St., Suite 2500
Denver, CO 80202

Prepared by:



6899 Pecos Street, Unit C
Denver, Colorado 80221

April 19, 2016

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1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the first quarter 2016 at the Eaton Commons project (Site) in Weld County, Colorado (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The field activities were conducted with the purpose of monitoring groundwater flow and quality conditions in the Site subsurface and performing groundwater remediation. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on February 19 and 26, 2016.

2. Site Location and Background

The Site is located in the northeastern quarter of the southeastern quarter of Section 31, Township 7 North, Range 65 West (approximate coordinates 40.528161 degrees north and -104.696969 degrees west). It is approximately 0.28 miles north of the intersection of US Highway 74 and County Road 39 within the Eaton Commons Neighborhood. Specifically, the Site is located partially within two backyards of private residences located at 301 Hickory Street and 940 East Third St in the southeast corner of the Eaton Commons neighborhood.

On May 4, 2015, a petroleum hydrocarbon release from a buried DCP sales line was discovered. An initial Form 19 was submitted to the Colorado Oil and Gas Conservation Commission (COGCC) on May 6, 2015 and a supplemental Form 19 was submitted on June 2, 2015. Excavation activities were conducted to remove surface and subsurface soil impacts and approximately 1,140 cubic yards of impacted soil was removed and disposed of at the Waste Management Facility in Ault, CO.

Additionally, during excavation activities, groundwater was encountered at approximately 8-feet below ground surface (bgs) and approximately 375 barrels of groundwater was removed from the excavation with a vacuum truck prior to backfilling.

A Form 27 (document number 200437203) was submitted to the COGCC on August 20, 2015 and the COGCC issued remediation #9251 for the Site. Groundwater monitoring and remediation activities are being conducted in accordance with the approved work plan provided in the Form 27.

2.1 Monitoring Well Installation

In accordance with the Form 27 and the September 15, 2015 Conditions of Approval (COA) as set forth by the COGCC, additional groundwater monitoring well installation (BH06, BH07, BH07R, & BH08) was conducted between September 25 and October 16, 2015, as illustrated on Figure 2. On September 25, 2015 during direct push drilling activities at BH07, the direct push drill rig reached refusal at approximately 11 feet bgs which was not within the saturated interval. However, due to moist soils that were encountered at approximately 8 feet bgs, a monitoring well with a 5-foot screened interval from 11 to 6 feet bgs was installed to observe groundwater infiltration over time, if any.

Subsequent to an approximate one week period, BH07 was gauged and groundwater was not observed within the well. Therefore, on October 16, 2015, supplemental hollow stem auger drilling activities were conducted to install monitoring wells BH07R and BH08.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the first quarter 2016 groundwater monitoring event. Quarterly monitoring activities were conducted on February 19 and 26, 2016, and included Site-wide groundwater gauging and sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the first quarter 2016, groundwater levels were measured at eight (8) monitoring well locations.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and the calculated groundwater elevations are presented in Table 1.

A first quarter 2016 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the northwest. The range of groundwater elevations and the calculated average hydraulic gradient (using elevations from BH01 and BH07R) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Fourth Quarter 2015 (10/7 & 10/22/15)
Maximum Elevation (Well ID)	4,822.40 (BH01)
Minimum Elevation (Well ID)	4,817.62 (BH07R)
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.028 (BH01 to BH07R)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from each of the 8 monitoring wells using dedicated polyethylene bailers.

A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then delivered under chain-of-custody procedures to Summit Scientific Laboratories (Summit) in Golden, CO for analysis.

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Analytical results up to and including the first quarter 2016 event are included in Appendix A and the laboratory analytical report for the first quarter 2016 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene at monitoring well BH03 was in exceedance of the COGCC Table 910-1 standard of 5 micrograms per liter ($\mu\text{g/L}$) with a detected concentration of 220 $\mu\text{g/L}$.
- BTEX concentrations at the remaining seven sampled monitoring well locations were below laboratory detection limits and the COGCC applicable standards.

4. Remediation Activities

This Section includes a description of the active and anticipated remediation activities at the Site along with observations during remediation efforts.

4.1 Groundwater Remediation Activities

Vacuum enhanced fluid recovery (EFR) groundwater remediation events were conducted at the Site during the first quarter 2016 at the EFR well locations and the horizontal remediation wells illustrated on Figure 2. Between January 7 and March 28, 2016, 13 EFR remediation events were conducted for a project total of 27 EFR events. During the first quarter 2016 EFR events, vacuum was applied continuously to the EFR, AS, and horizontal remediation wells illustrated on Figure 2 during each event for a minimum 6-hour period. A total of approximately 94 barrels (bbls) of groundwater was recovered during the first quarter 2016 through EFR remediation activities and was disposed of at the NGL Water Solutions DJ, LLC, C-3 disposal well in LaSalle, CO. A project total of approximately 176.5 bbls of groundwater has been removed since EFR remediation activities were initiated at the Site.

4.2 Supplemental Remediation Efforts

Additional remediation efforts described in the approved Form 27 included the following:

- Excavation and disposal of impacted soil that remains in place, up-gradient, and to the east of the initial excavation;
- Installation of up to six up-gradient monitoring wells, contingent on the results of supplemental excavation activities; and,
- Installation of one monitoring well within the excavation/source area or collection of a groundwater sample from an EFR well.

The September 15, 2015 COA required that additional remediation activities were to commence within 90 days of the Form 27 approval. However, the homeowners on-Site requested that prior to

commencing the additional remediation activities and subsequent to completion of landscaping, a 6-foot privacy fence be installed along the eastern boundary of the properties. The property owners have led the privacy fence installation effort which was initiated during the week of December 27, 2015. The privacy fence installation was completed on February 4, 2016 and therefore, supplemental remediation efforts can be completed.

Groundwater samples were attempted to be collected from the EFR wells during the first quarter 2016. However, the groundwater sampling activities at the EFR well locations were unsuccessful. At this point, all attempts to collect groundwater samples from the EFR wells have been unsuccessful using traditional monitoring well sampling methods with tubing and low flow sampling. Therefore, unconventional collection methods or additional sampling, as described below, may need to be utilized in order to collect groundwater samples that can be considered representative of the excavation/source area conditions:

- Utilize vacuum and a modified knock out tank, also referred to as a moisture separator, to remove groundwater from the well for sample collection; or,
- In lieu of collecting a sample from an EFR well, collect a sample from one or both of the horizontal remediation wells illustrated on Figure 2 that were installed during excavation activities to be utilized as the representative excavation/source area sample.

5. Conclusions

Evaluation of the first quarter 2016 monitoring data provides the following general observations:

- During the first quarter 2016, groundwater flow at the Site was towards the northwest which is consistent with the fourth quarter 2015 monitoring data.
- Benzene concentrations in exceedance of the COGCC Table 910-1 standards were observed at monitoring well BH03 with a detected concentration of 220 µg/L. This result is an order of magnitude lower than has been observed during previous sampling events.
- The remaining seven sampled locations (BH01, BH02, and BH04 through BH08) exhibited BTEX concentrations below the standards and/or below laboratory detection limits during the first quarter 2016.
- The benzene concentration at BH05, which was above COGCC standards during the fourth quarter 2015, was below laboratory detection limits during the first quarter 2016.
- EFR remediation has been successful at removing impacted groundwater from the source area.

6. Recommendations

Based on evaluation of data and Site activities from the fourth quarter 2015, recommendations for the Site include:

- Continue quarterly groundwater monitoring and sampling at the monitoring well locations illustrated on Figure 2.

- Continue weekly EFR activities at the EFR, AS, and horizontal remediation wells illustrated on Figure 2.
- Collect a groundwater sample from one of the horizontal remediation wells to be used as a representative excavation/source area groundwater sample in lieu of collecting a sample from an EFR well using unconventional extraction methods as described in Section 4.2. A Form 4 Sundry notice will be submitted to the COGCC during the second quarter 2016 requesting this change to the Form 27 remediation work plan and associated COA for that document.
- Initiate supplemental excavation, remediation, and well installation efforts as described in the approved Form 27.
- Submit a Remediation Implementation Report summarizing the additional remediation and investigation efforts within 60 days of completion of those efforts.

Tables

TABLE 1
FIRST QUARTER 2016
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP MIDSTREAM - EATON COMMONS RELEASE
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
BH01	6/11/2015	6.22	10.42	4829.11	4822.89	NA
BH01	10/7/2015	5.25	10.45	4829.11	4823.86	0.97
BH01	2/19/2016	6.71	10.16	4829.11	4822.40	-1.46
BH02	6/11/2015	8.18	11.04	4829.98	4821.80	NA
BH02	10/7/2015	5.51	10.51	4829.98	4824.47	2.67
BH02	2/19/2016	7.89	10.51	4829.98	4822.09	-2.38
BH03	6/11/2015	10.57	11.05	4830.93	4820.36	NA
BH03	10/7/2015	8.33	11.15	4830.93	4822.60	2.24
BH03	2/19/2016	10.41	11.40	4830.93	4820.52	-2.08
BH04	6/11/2015	10.18	11.21	4830.80	4820.62	NA
BH04	10/7/2015	9.16	11.30	4830.80	4821.64	1.02
BH04	2/19/2016	9.70	11.20	4830.80	4821.10	-0.54
BH05	6/11/2015	8.14	10.67	4829.76	4821.62	NA
BH05	10/7/2015	7.56	10.70	4829.76	4822.20	0.58
BH05	2/19/2016	8.05	10.66	4829.76	4821.71	-0.49
BH06	10/7/2015	9.64	14.63	4831.81	4822.17	NA
BH06	2/19/2016	11.43	14.61	4831.81	4820.38	-1.79
BH07R	10/22/2015	12.52	22.36	4830.24	4817.72	NA
BH07R	2/26/2016	12.62	22.36	4830.24	4817.62	-0.10
BH08	10/22/2015	15.24	24.09	4830.39	4815.15	NA
BH08	2/19/2016	12.28	24.33	4830.39	4818.11	2.96
Average groundwater elevation 10/7/15						-0.73

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
FIRST QUARTER 2016
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP MIDSTREAM - EATON COMMONS RELEASE
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)⁽¹⁾		5	560	700	1,400	
BH01	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH02	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH03	2/19/2016	220	<1.0	26	20	
BH04	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH05	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH06	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH07R	2/26/2016	<1.0	<1.0	<1.0	<1.0	
BH08	2/19/2016	<1.0	<1.0	<1.0	<1.0	

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 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.

Figures

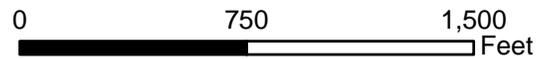
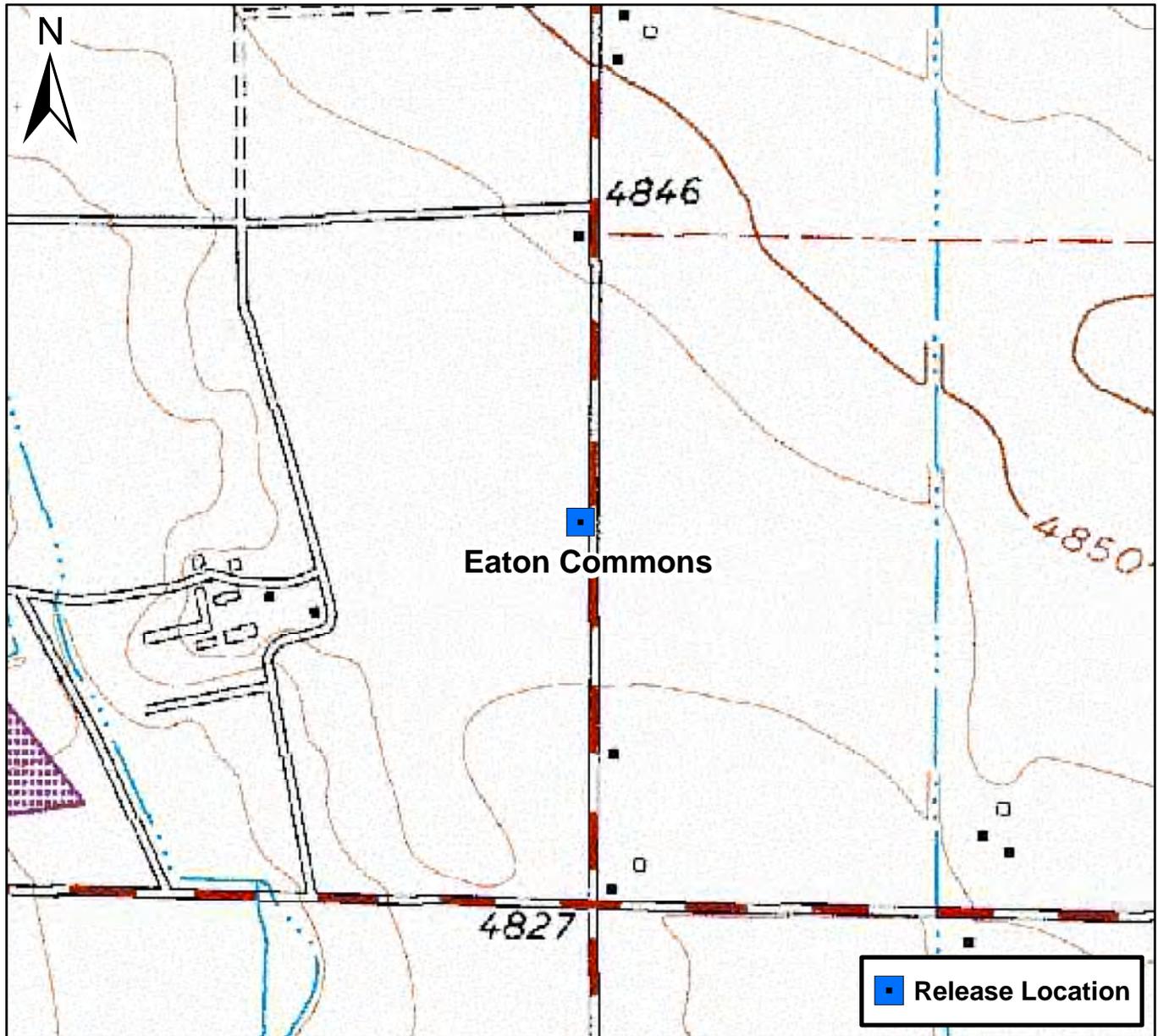


Figure 1

Site Location Map
 Eaton Commons
 NESE S31 T7N R65W
 Weld County, Colorado





DATE:
December 2015

DESIGNED BY:
B. Humphrey

DRAWN BY:
D. Arnold



**DCP Midstream
Eaton Commons**

NESE Section 31, Township 7 North, Range 65 West
Weld County, Colorado

Site Overview
Map with Well Locations

Figure
2



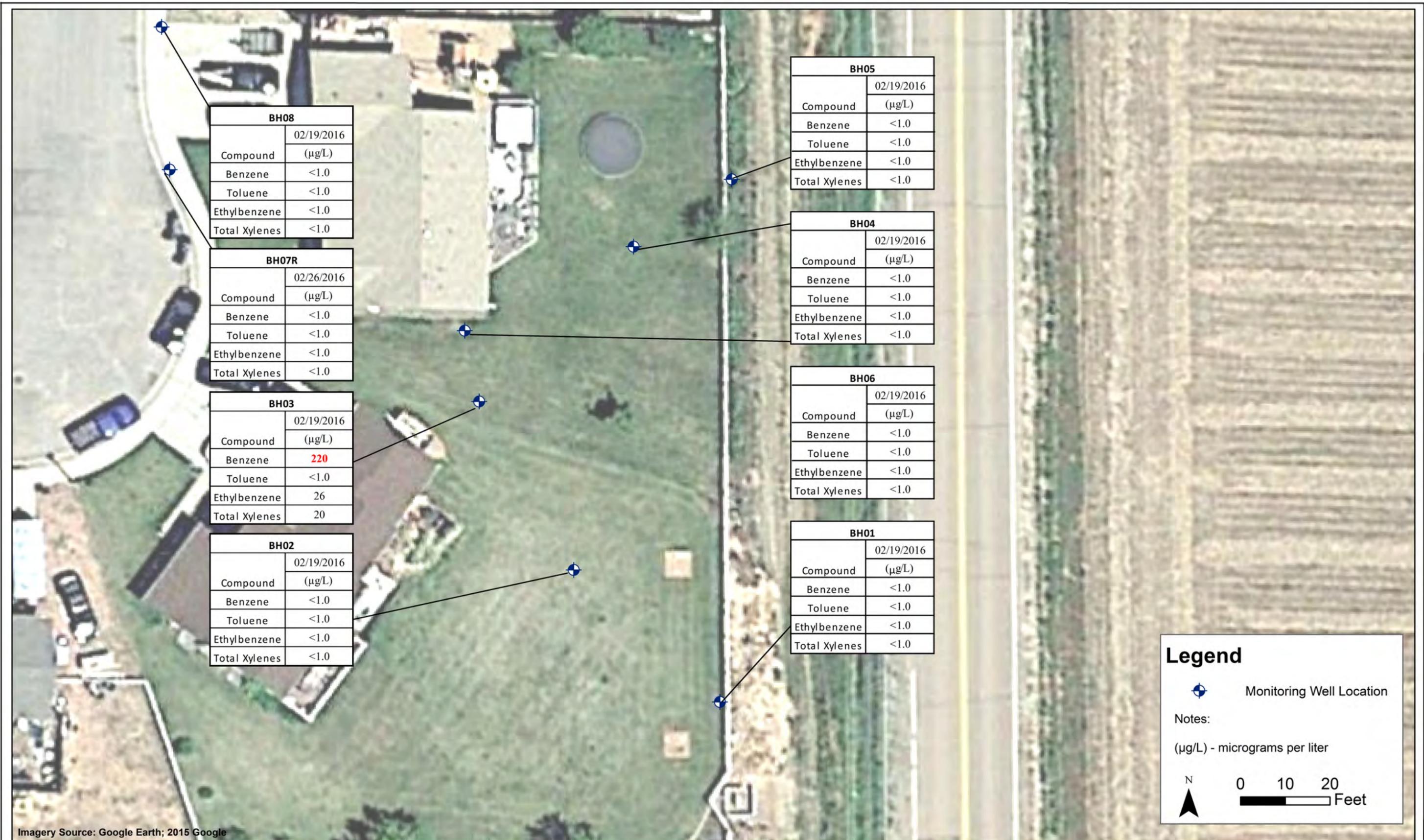
DATE:	April 2016
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold


TASMAN
 GEOSCIENCES
 Tasman Geosciences, Inc
 6899 Pecos Street - Unit C
 Denver, CO 80221

**DCP Midstream
 Eaton Commons**
 NESE Section 31, Township 7 North, Range 65 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (February 2, 2016)

**Figure
 3**



DATE: April 2016
 DESIGNED BY: B. Humphrey
 DRAWN BY: D. Arnold



**DCP Midstream
 Eaton Commons**
 NESE Section 31, Township 7 North, Range 65 West
 Weld County, Colorado

Groundwater Analytical
 Results Map

Figure
 5

Appendix A

Historic Analytical Results

**APPENDIX A
HISTORICAL ANALYTICAL DATA
DCP MIDSTREAM - EATON COMMONS RELEASE
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)⁽¹⁾		5	560	700	1,400	
BH01	6/11/2015	<1.0	<1.0	<1.0	<1.0	
BH01	10/7/2015	<1.0	<1.0	<1.0	<1.0	
BH01	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH02	6/11/2015	<1.0	4.3	2.7	14	
BH02	10/7/2015	<1.0	<1.0	<1.0	<1.0	
BH02	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH03	6/11/2015	2,600	1.2	14	70	
BH03	10/7/2015	4,600	1.8	81	14	
BH03	2/19/2016	220	<1.0	26	20	
BH04	6/11/2015	<1.0	<1.0	<1.0	<1.0	
BH04	10/7/2015	<1.0	<1.0	<1.0	<1.0	
BH04	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH05	6/11/2015	<1.0	<1.0	<1.0	<1.0	
BH05	10/7/2015	76	7.2	<1.0	5.2	
BH05	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH06	10/7/2015	<1.0	<1.0	2.4	<1.0	
BH06	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH07R	10/22/2015	<1.0	<1.0	<1.0	<1.0	
BH07R	2/26/2016	<1.0	<1.0	<1.0	<1.0	
BH08	10/22/2015	<1.0	<1.0	<1.0	<1.0	
BH08	2/19/2016	<1.0	<1.0	<1.0	<1.0	

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 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.

NS = Not sampled.

µg/L = micrograms per liter.

Appendix B

Laboratory Analytical Report

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 26, 2016

Brian Humphrey
Tasman Geosciences
6899 Pecos Street
Denver, CO 80221
RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 02/19/16 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1602159-01	Water	02/18/16 11:50	02/19/16 17:00
BH02	1602159-02	Water	02/18/16 12:00	02/19/16 17:00
BH03	1602159-03	Water	02/18/16 12:10	02/19/16 17:00
BH04	1602159-04	Water	02/18/16 12:20	02/19/16 17:00
BH05	1602159-05	Water	02/18/16 12:30	02/19/16 17:00
BH06	1602159-06	Water	02/18/16 12:40	02/19/16 17:00
BH08	1602159-07	Water	02/18/16 12:50	02/19/16 17:00

Summit Scientific

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
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

Summit Scientific

1602159

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: DCP/Tasman
 Address: _____
 City/State/Zip: _____
 Phone: _____ Fax: _____
 Sampler Name: Ellet Dillon-Harvey
 Project Manager: B Humphrey
 E-Mail: bhumphrey@tasman-geo.com
 Project Name: Eaton Commons
 Project Number: _____

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Container Serial #	Other (Specify)	BTEX 9260				
BH#1	02/19/16	1150	3	Y												
BH#2		1200	3	Y												
BH#3		1210	2													
BH#4		1220	3													
BH#5		1230	3													
BH#6		1240	3													
BH#8		1250	3													

Relinquished by:	Date/Time: 02/19/16 0745	Received by:	Date/Time: 2/19/16 1700	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time: 2/19/16 1750	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	24 Hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	48 Hours <input type="checkbox"/>	
				Sample Integrity:	7.3°C on ice
				Temperature Upon Receipt:	
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH01
1602159-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.8 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		109 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %	45-146		"	"	"	"	

Summit Scientific

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
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH02
1602159-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.7 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		109 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.7 %	45-146		"	"	"	"	

Summit Scientific

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
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH03
1602159-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	220	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	26	1.0	"	"	"	"	"	"	
Xylenes (total)	20	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		67.7 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.3 %	45-146		"	"	"	"	

Summit Scientific

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
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH04
1602159-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		88.1 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		107 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.5 %	45-146		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH05
1602159-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		111 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.2 %	45-146		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH06
1602159-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.8 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		112 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.5 %	45-146		"	"	"	"	

Summit Scientific

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Tasman Geosciences
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Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

BH08
1602159-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/18/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602227	02/26/16	02/26/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/18/16 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		109 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.2 %	45-146		"	"	"	"	

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1602227 - EPA 5030 Water MS

Blank (1602227-BLK1)

Prepared & Analyzed: 02/23/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	37-154			
Surrogate: Toluene-d8	15.4		"	13.3		115	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	45-146			

LCS (1602227-BS1)

Prepared & Analyzed: 02/23/16

Benzene	38.6	1.0	ug/l	33.3		116	51-132			
Toluene	42.2	1.0	"	33.3		127	51-138			
Ethylbenzene	43.7	1.0	"	33.1		132	58-146			
m,p-Xylene	80.7	2.0	"	66.5		121	57-144			
o-Xylene	38.3	1.0	"	32.7		117	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	37-154			
Surrogate: Toluene-d8	16.5		"	13.3		124	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	45-146			

Matrix Spike (1602227-MS1)

Source: 1602179-01

Prepared & Analyzed: 02/23/16

Benzene	38.9	1.0	ug/l	33.3	ND	117	34-141			
Toluene	41.9	1.0	"	33.3	ND	126	27-151			
Ethylbenzene	43.5	1.0	"	33.1	ND	131	29-160			
m,p-Xylene	80.0	2.0	"	66.5	ND	120	20-166			
o-Xylene	38.3	1.0	"	32.7	ND	117	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	37-154			
Surrogate: Toluene-d8	16.3		"	13.3		122	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.1	45-146			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1602227 - EPA 5030 Water MS

Matrix Spike Dup (1602227-MSD1)	Source: 1602179-01			Prepared & Analyzed: 02/23/16						
Benzene	40.0	1.0	ug/l	33.3	ND	120	34-141	2.69	32	
Toluene	43.1	1.0	"	33.3	ND	129	27-151	2.92	25	
Ethylbenzene	44.4	1.0	"	33.1	ND	134	29-160	1.98	50	
m,p-Xylene	80.6	2.0	"	66.5	ND	121	20-166	0.672	36	
o-Xylene	38.8	1.0	"	32.7	ND	119	33-159	1.17	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.8</i>		<i>"</i>	<i>13.3</i>		<i>119</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>16.3</i>		<i>"</i>	<i>13.3</i>		<i>122</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.1</i>	<i>45-146</i>			

Summit Scientific

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Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
02/26/16 13:51

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 03, 2016

Brian Humphrey
DCP Midstream
370 17th Street #2500
Denver, CO 80202
RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 02/26/16 16:09. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH07R	1602220-01	Water	02/26/16 13:50	02/26/16 16:09

Summit Scientific

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.



DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

Summit Scientific

1602220

741 Corporate Circle, Suite J • Golden, Colorado 80401
303-277-9310 • 303-374-5933

Page 1 of 1

Client: DCP Midstream Project Manager: Steve Walters / Brian Humphrey
 Address: _____ E-Mail: swalters@dcpmidstream.com
 City/State/Zip: _____ bhumphrey@summit-geo.com
 Phone: _____ Fax: _____ Project Name: Eaton Commons
 Sampler Name: Brian Humphrey Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)					
1	BH07R	2/26/16	1350	3	X					X							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-26-16/1609</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2-26-16 16:09</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-26-16 17:15</u>	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	Sample Integrity:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <u>9.6°C</u>	Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

www.s2scientific.com

S2

DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

Sample Receipt Checklist

S2 Work Order: 1602220

Client: DCP Midstream Client Project ID: Eaton Commons

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Cooler ID					
Temp (°C)	9.6°c				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?			<i>AMM</i>	
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	✓		X	
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?	X		✓	<i>AMM</i>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.	X			HCL preserved.
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muci Premer
Custodian Printed Name

MA 2-24-16
Signature or Initials of Custodian

11:12
Date/Time





DCP Midstream
 370 17th Street #2500
 Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 03/03/16 11:40

BH07R
1602220-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/26/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1602276	03/02/16	03/02/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/26/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>	<i>37-154</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>94.0 %</i>	<i>45-149</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>	<i>45-146</i>		"	"	"	"	

Summit Scientific

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DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1602276 - EPA 5030 Water MS

Blank (1602276-BLK1)

Prepared & Analyzed: 03/01/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106	37-154			
Surrogate: Toluene-d8	12.8		"	13.3		95.6	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	45-146			

LCS (1602276-BS1)

Prepared & Analyzed: 03/01/16

Benzene	41.3	1.0	ug/l	33.3		124	51-132			
Toluene	36.3	1.0	"	33.3		109	51-138			
Ethylbenzene	44.4	1.0	"	33.1		134	58-146			
m,p-Xylene	86.5	2.0	"	66.5		130	57-144			
o-Xylene	41.3	1.0	"	32.7		126	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	45-146			

Matrix Spike (1602276-MS1)

Source: 1602205-01

Prepared & Analyzed: 03/01/16

Benzene	42.1	1.0	ug/l	33.3	ND	126	34-141			
Toluene	37.1	1.0	"	33.3	ND	111	27-151			
Ethylbenzene	45.8	1.0	"	33.1	ND	139	29-160			
m,p-Xylene	88.4	2.0	"	66.5	ND	133	20-166			
o-Xylene	42.6	1.0	"	32.7	ND	130	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	45-146			

Summit Scientific

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DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons
Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1602276 - EPA 5030 Water MS

Matrix Spike Dup (1602276-MSD1)	Source: 1602205-01			Prepared & Analyzed: 03/01/16						
Benzene	42.5	1.0	ug/l	33.3	ND	127	34-141	0.827	32	
Toluene	37.5	1.0	"	33.3	ND	112	27-151	1.15	25	
Ethylbenzene	46.8	1.0	"	33.1	ND	142	29-160	2.07	50	
m,p-Xylene	90.3	2.0	"	66.5	ND	136	20-166	2.13	36	
o-Xylene	43.6	1.0	"	32.7	ND	133	33-159	2.23	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>99.0</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.9</i>	<i>45-146</i>			

Summit Scientific

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DCP Midstream
370 17th Street #2500
Denver CO, 80202

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/03/16 11:40

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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