

Fourth Quarter 2016 Groundwater Monitoring Summary Report

Eaton Commons Release Weld County, Colorado Remediation #9251

Prepared for:



370 17th St., Suite 2500
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Prepared by:



6899 Pecos Street, Unit C
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January 17, 2017

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1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the fourth 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 December 12, 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.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the fourth quarter 2016 groundwater monitoring event. Quarterly monitoring activities were conducted on December 12, 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 fourth

quarter 2016, groundwater levels were measured at eight (8) monitoring well locations and one remediation well location (REM Well).

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 fourth 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 2016 (12/12/16)
Maximum Elevation (Well ID)	4,820.81 (BH01)
Minimum Elevation (Well ID)	4,817.29 (BH07R)
Average Change from Previous Monitoring Event – All Wells	-3.04 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.021 (BH01 to BH07R)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from six (6) of the Site monitoring wells using disposable polyethylene bailers. Monitoring wells BH03 and BH04 as well as one remediation well location (REM Well) were dry during the fourth quarter 2016 monitoring event.

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 (⁰C) 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 fourth quarter 2016 event are included in Appendix A and the laboratory analytical report for the fourth quarter 2016 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- BTEX concentrations at all 6 of the 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 fourth quarter 2016 at the EFR well locations and the horizontal remediation wells illustrated on Figure 2. Between September 26 and December 29, 2016, nine (9) EFR remediation events were conducted for a project total of 56 EFR events. During the fourth 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 79 barrels (bbls) of groundwater was recovered during the fourth 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 642 bbls of groundwater has been removed since EFR remediation activities were initiated at the Site.

4.2 Supplemental Remediation Efforts

On October 20, 2016, supplemental Site investigation activities including drilling and soil sampling were conducted upgradient of the Site within western right of way to County Road 39 as well as within the southbound, west lane of County Road 39 (Figure 5). These activities were performed to determine the lateral and vertical extents of petroleum hydrocarbon impacts to the east of the initial excavation area and verify if supplemental remediation efforts including impacted soil excavation and disposal will be required to those extents. The soil investigation was conducted using direct push drilling with continuous core sampling methods. Lithologic descriptions were completed using Unified Soil Classification System (USCS) characteristics and the soil cores were field screened for volatile organic compounds (VOC) using a photoionization detector (PID) and standard head space sampling techniques. The drilling and soil sampling locations are illustrated on Figure 5 and the borehole logs are included in Appendix C.

During drilling activities, groundwater was encountered at approximately 11 to 12 feet bgs and soil samples for laboratory analysis were collected from the capillary fringe at approximately 10 feet bgs. Soil 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 ($^{\circ}\text{C}$) for transportation to the laboratory. Soil samples were then delivered under chain-of-custody procedures to Summit Scientific Laboratories (Summit) in Golden, CO for analysis. Soil samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons gasoline range organics (TPH-GRO) by United States Environmental Protection Agency (USEPA) Method

8260B. Additionally, total petroleum hydrocarbons diesel range organics (TPH-DRO) was analyzed using USEPA Method 8015D.

Laboratory analytical results for BTEX, TPH-GRO, and TPH-DRO for the borehole locations were all below laboratory detection limits and COGCC standards. Additionally, PID readings throughout the vertical profile at each borehole location were observed to be 0.0 parts per million. Based on these observations, petroleum hydrocarbon impacted soil was not encountered and excavation activities will not be required east of the irrigation ditch to the east of the Site. The soil sample laboratory analytical results are displayed on Figure 5 and the laboratory analytical report is included in appendix D.

5. Conclusions

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

- During the fourth quarter 2016, groundwater flow at the Site was towards the northwest which is consistent with previous quarterly monitoring data.
- Groundwater elevations across the Site dropped significantly by an average of 3.04 feet compared to the third quarter 2016. The decrease in groundwater elevation may be attributed to seasonal variations and/or outside factors related to adjacent agricultural activities.
- BTEX concentrations at all 6 of the sampled monitoring well locations were below laboratory detection limits and the COGCC applicable standards. However, the wells that have historically had BTEX concentrations above COGCC standards (BH03 and REM Well) were observed to be dry during the fourth quarter 2016 monitoring event. Therefore, samples for groundwater characteristics could not be collected from those locations.
- 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 2016, 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.
- 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
FOURTH 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	2/19/2016	6.71	10.16	4829.11	4822.40	-1.46
BH01	6/6/2016	7.00	10.16	4829.11	4822.11	-0.29
BH01	8/25/2016	3.74	10.20	4829.11	4825.37	3.26
BH01	12/12/2016	8.30	10.20	4829.11	4820.81	-4.56
BH02	2/19/2016	7.89	10.51	4829.98	4822.09	-2.38
BH02	6/6/2016	7.91	10.51	4829.98	4822.07	-0.02
BH02	8/25/2016	5.29	10.54	4829.98	4824.69	2.62
BH02	12/12/2016	9.25	10.54	4829.98	4820.73	-3.96
BH03	2/19/2016	10.41	11.40	4830.93	4820.52	-2.08
BH03	6/6/2016	10.36	11.40	4830.93	4820.57	0.05
BH03	8/25/2016	8.21	11.13	4830.93	4822.72	2.15
BH03	12/12/2016	DRY	11.13	4830.93	NA	NA
BH04	2/19/2016	9.70	11.20	4830.80	4821.10	-0.54
BH04	6/6/2016	9.92	11.20	4830.80	4820.88	-0.22
BH04	8/25/2016	6.91	11.23	4830.80	4823.89	3.01
BH04	12/12/2016	DRY	11.25	4830.80	NA	NA
BH05	2/19/2016	8.05	10.66	4829.76	4821.71	-0.49
BH05	6/6/2016	8.63	10.66	4829.76	4821.13	-0.58
BH05	8/25/2016	4.84	10.70	4829.76	4824.92	3.79
BH05	12/12/2016	9.93	10.70	4829.76	4819.83	-5.09
BH06	2/19/2016	11.43	14.61	4831.81	4820.38	-1.79
BH06	6/6/2016	11.41	14.61	4831.81	4820.40	0.02
BH06	8/25/2016	9.49	14.65	4831.81	4822.32	1.92
BH06	12/12/2016	12.51	14.65	4831.81	4819.30	-3.02
BH07R	2/26/2016	12.62	22.36	4830.24	4817.62	-0.10
BH07R	6/6/2016	11.44	22.36	4830.24	4818.80	1.18
BH07R	8/25/2016	12.24	22.22	4830.24	4818.00	-0.80
BH07R	12/12/2016	12.95	22.22	4830.24	4817.29	-0.71
BH08	2/19/2016	12.28	24.33	4830.39	4818.11	2.96
BH08	6/6/2016	12.57	24.33	4830.39	4817.82	-0.29
BH08	8/25/2016	11.93	24.20	4830.39	4818.46	0.64
BH08	12/12/2016	12.81	24.20	4830.39	4817.58	-0.88
REM Well	8/25/2016	3.72	7.61	NM	NM	NA
REM Well	12/12/2016	DRY	7.61	NM	NM	NA
Average groundwater elevation change between 8/25/2016 and 12/12/2016						-3.04

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

NM = Not Measured

TABLE 2
FOURTH 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	,1.0	1,400	
BH01	12/12/2016	<1.0	<1.0	<1.0	<1.0	
BH02	12/12/2016	<1.0	<1.0	<1.0	<1.0	
BH03	12/12/2016	Not Sampled				Well was dry
BH04	12/12/2016	Not Sampled				Well was dry
BH05	12/12/2016	<1.0	<1.0	<1.0	<1.0	
BH06	12/12/2016	<1.0	<1.0	<1.0	<1.0	
BH07R	12/12/2016	<1.0	<1.0	<1.0	<1.0	
BH08	12/12/2016	<1.0	<1.0	<1.0	<1.0	
REM Well	12/12/2016	Not Sampled				Well was dry

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

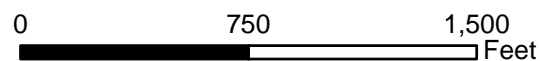
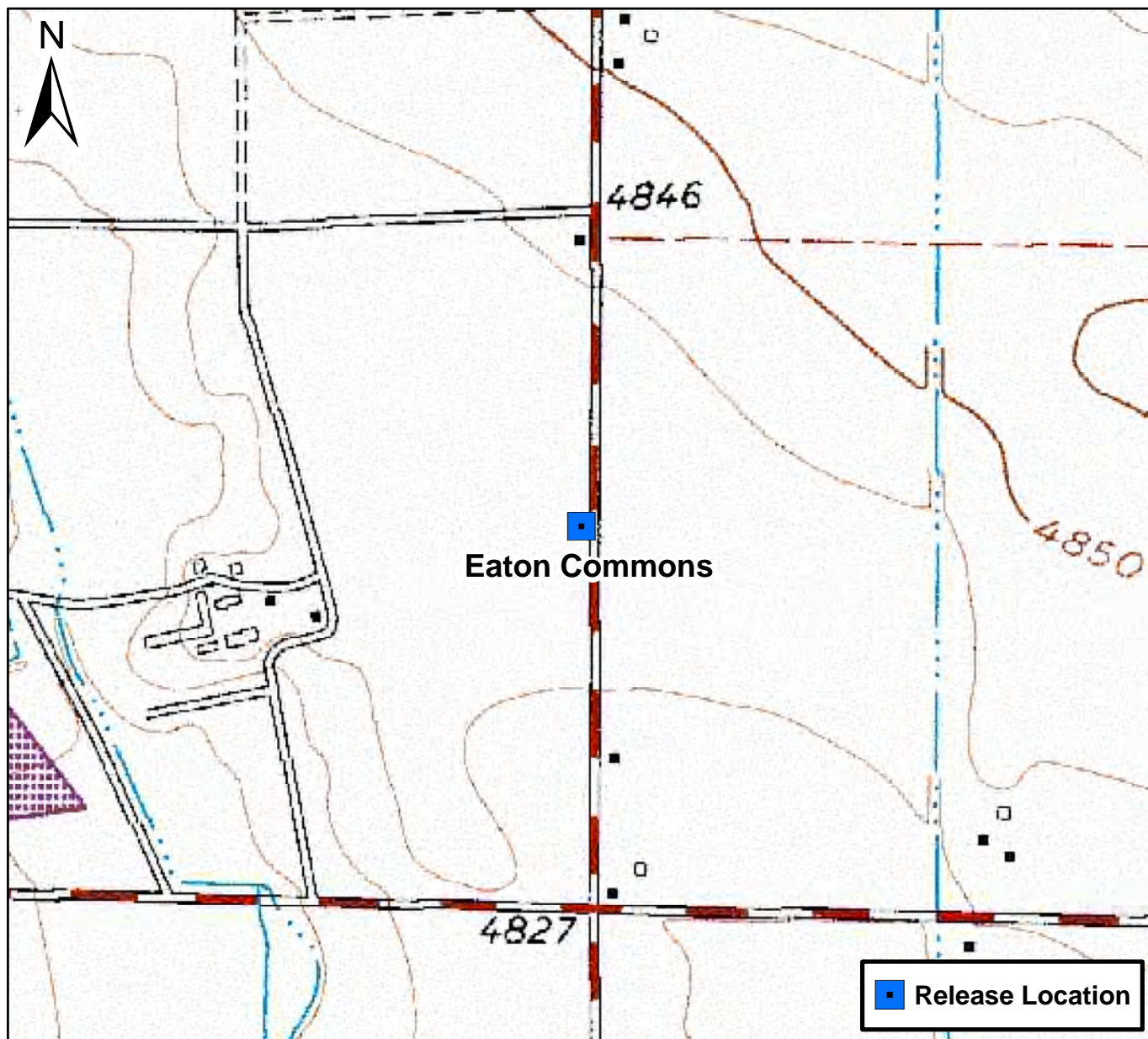


Figure 1

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





DATE:
January 2017

DESIGNED BY:
B. Humphrey

DRAWN BY:
D. Cavinder



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

Site Overview
Map with Well Locations

**Figure
2**



DATE:	January 2017
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Cavinder

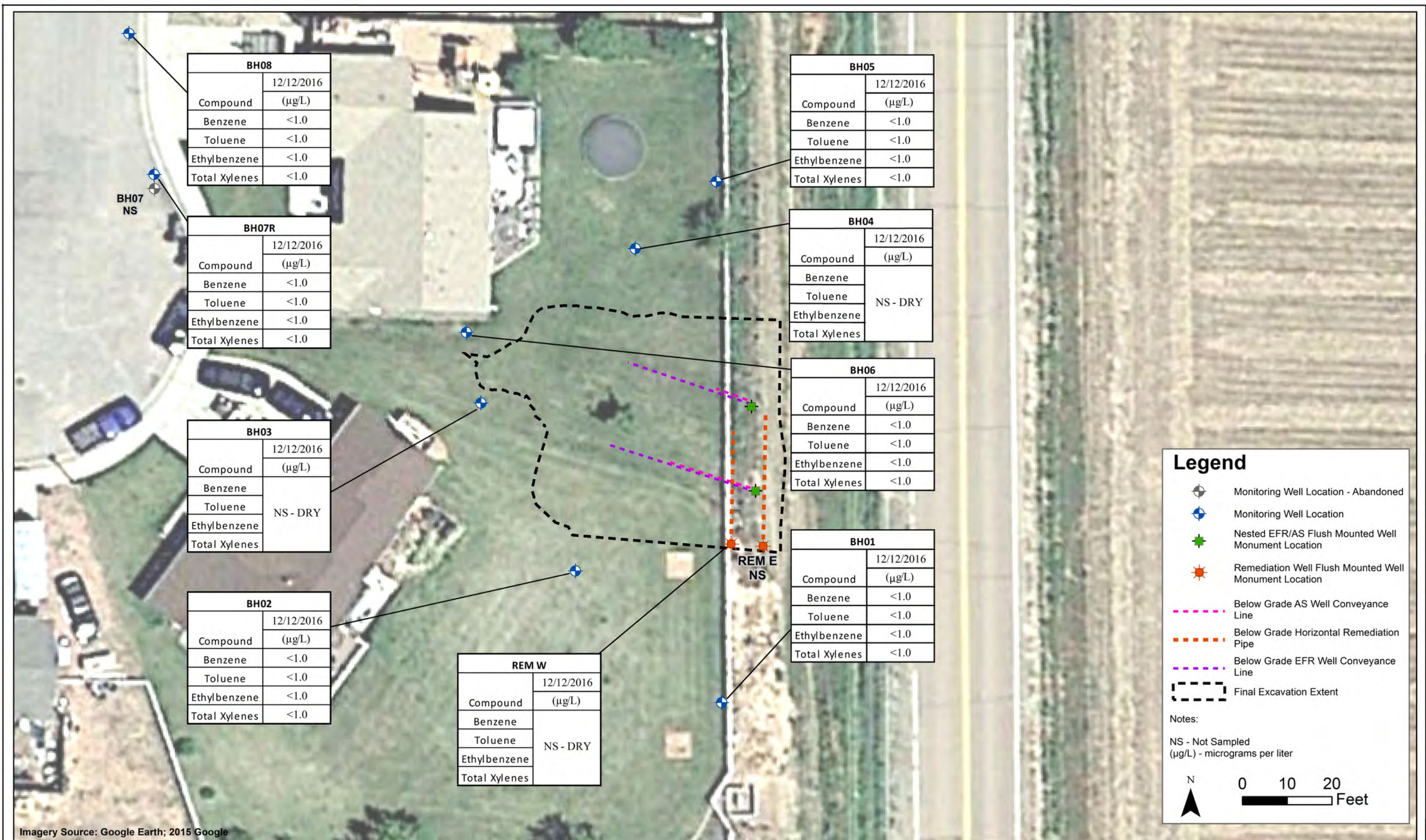


Tasman Geosciences, Inc
6899 Pecos Street - Unit C
Denver, CO 80221

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

Groundwater Elevation
Contour Map
(December 12, 2016)

Figure
3



DATE: January 2017
 DESIGNED BY: B. Humphrey
 DRAWN BY: D. Cavinder

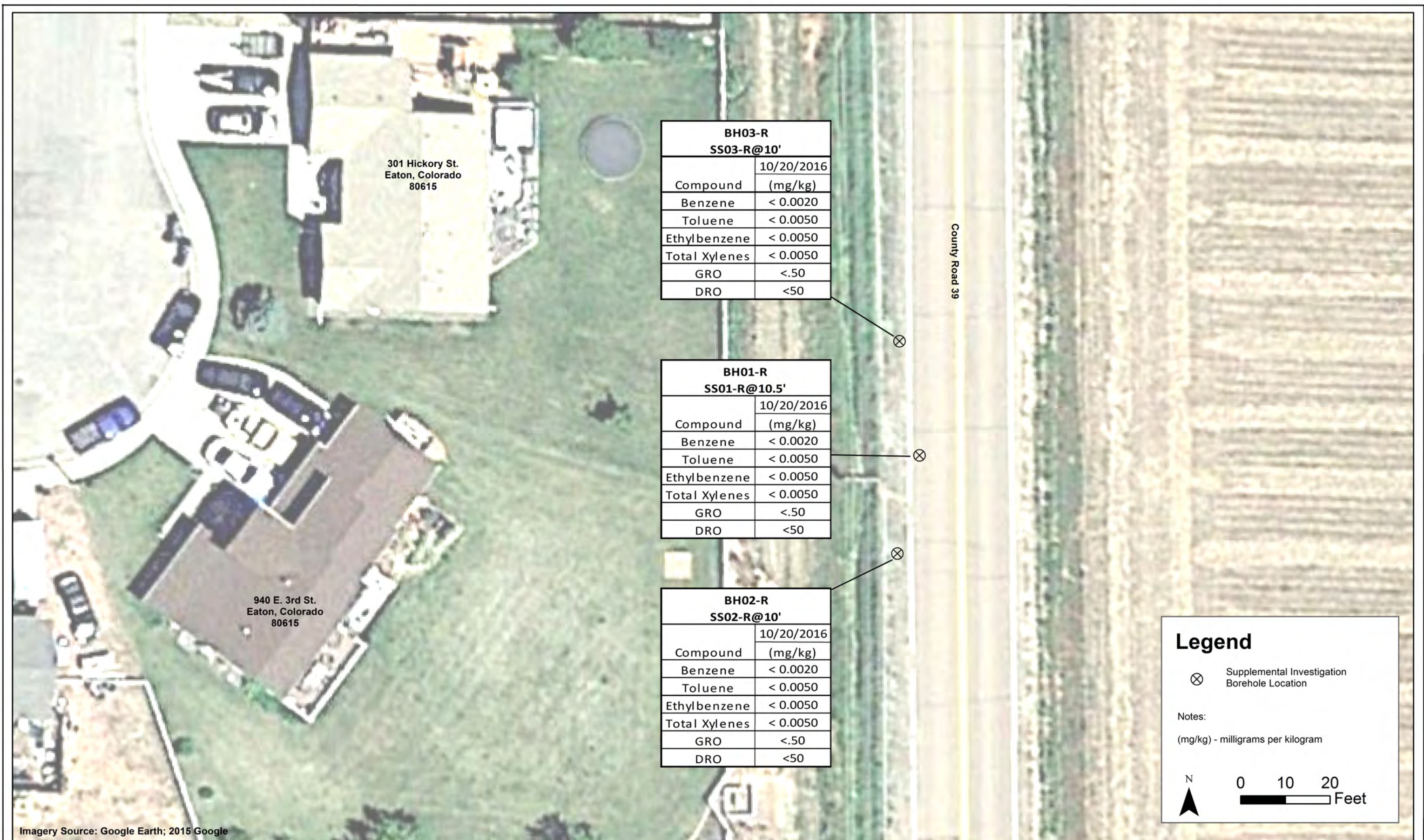


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 6899 Pecos Street - Unit C
 Denver, CO 80221

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

Groundwater Analytical
 Results Map
 (December 12, 2016)

**Figure
 4**



DATE:
January 2017

DESIGNED BY:
B. Everett

DRAWN BY:
D. Cavinder

 **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

Supplemental Investigation
Borehole Location and
Analytical Results Map
(October 20, 2016)

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	
BH01	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH01	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH01	12/12/2016	<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	
BH02	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH02	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH02	12/12/2016	<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	
BH03	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH03	8/25/2016	1,100	<1.0	<1.0	10	
BH03	12/12/2016	Not Sampled				Well was dry
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	
BH04	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH04	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH04	12/12/2016	Not Sampled				Well was dry
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	
BH05	6/6/2016	4.3	<1.0	<1.0	<1.0	
BH05	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH05	12/12/2016	<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	
BH06	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH06	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH06	12/12/2016	<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	
BH07R	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH07R	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH07R	12/12/2016	<1.0	<1.0	<1.0	<1.0	

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	
BH08	10/22/2015	<1.0	<1.0	<1.0	<1.0	
BH08	2/19/2016	<1.0	<1.0	<1.0	<1.0	
BH08	6/6/2016	<1.0	<1.0	<1.0	<1.0	
BH08	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH08	12/12/2016	<1.0	<1.0	<1.0	<1.0	
REM Well	6/6/2016	<1.0	<1.0	<1.0	<1.0	
REM Well	8/25/2016	1,400	<1.0	<1.0	<1.0	
REM Well	12/12/2016	Not Sampled				Well was dry

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

Groundwater Laboratory Analytical Report

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 19, 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 12/12/16 08:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
12/19/16 14:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1612080-01	Water	12/12/16 11:00	12/12/16 08:46
BH02	1612080-02	Water	12/12/16 11:00	12/12/16 08:46
BH05	1612080-03	Water	12/12/16 11:27	12/12/16 08:46
BH06	1612080-04	Water	12/12/16 11:40	12/12/16 08:46
BH07R	1612080-05	Water	12/12/16 11:16	12/12/16 08:46
BH08	1612080-06	Water	12/12/16 11:20	12/12/16 08:46

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:
12/19/16 14:55

Summit Scientific

1612080

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

Client: DCP/Tasman

Page 4 of 2

Address: 6899 Pecos Street

City/State/Zip:

Phone: 979-255-4235

Fax:

Sampler Name: Max Garza

Project Manager: shirleyhanson@cpmstream.com ; bhumphrey@tasman-geo.ca

E-Mail:

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 - Canister Serial #	Other (Specify)	BTEX			
BH01	12/12/16	11:00	1			X		X							
BH02		11:00	1												
BH05		11:27	1												
BH06		11:40	3												
BH07R		11:16													
BH08		11:20													
Relinquished by: Max Garza Date/Time: 12/12/16 16:30 Received by: [Signature] Date/Time: 12/12/16 16:30 Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> Standard															
Relinquished by: [Signature] Date/Time: 12/12/16 17:00 Received by: [Signature] Date/Time: Sample Integrity: Temperature Upon Receipt: 5.1°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Notes: on ice															

www.s2scientific.com

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:
12/19/16 14:55

Sample Receipt Checklist

S2 Work Order: 1612080

Client: DCP/Tasman

Client Project ID: Eaton Commons

Shipped Via: PLV

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

Airbill #: _____

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

Cooler ID					
Temp (°C)	<u>5.1</u>				

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⁾ ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form 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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

12/12/16 1700
Date/Time



Tasman Geosciences
6899 Pecos Street
Denver CO, 80221

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

Reported:
12/19/16 14:55

BH01
1612080-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/14/16	12/14/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	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:
12/19/16 14:55

BH02
1612080-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/14/16	12/14/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.9 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	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:
12/19/16 14:55

BH05
1612080-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/15/16	12/15/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:27**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %	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:
12/19/16 14:55

BH06
1612080-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/15/16	12/15/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.0 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	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:
12/19/16 14:55

BH07R
1612080-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/15/16	12/15/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	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:
12/19/16 14:55

BH08
1612080-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/12/16 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612158	12/15/16	12/15/16	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/12/16 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	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:
12/19/16 14:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1612158 - EPA 5030 Water MS

Blank (1612158-BLK1)

Prepared & Analyzed: 12/14/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3		90.5	37-154			
Surrogate: Toluene-d8	13.7		"	13.3		103	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	45-146			

LCS (1612158-BS1)

Prepared & Analyzed: 12/14/16

Benzene	32.6	1.0	ug/l	33.3		97.9	51-132			
Toluene	35.5	1.0	"	33.3		107	51-138			
Ethylbenzene	38.5	1.0	"	33.1		116	58-146			
m,p-Xylene	72.7	2.0	"	66.5		109	57-144			
o-Xylene	37.1	1.0	"	32.7		114	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.5	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	45-146			

Matrix Spike (1612158-MS1)

Source: 1612073-01

Prepared & Analyzed: 12/14/16

Benzene	33.4	1.0	ug/l	33.3	ND	100	34-141			
Toluene	35.4	1.0	"	33.3	ND	106	27-151			
Ethylbenzene	39.0	1.0	"	33.1	ND	118	29-160			
m,p-Xylene	72.9	2.0	"	66.5	ND	110	20-166			
o-Xylene	38.1	1.0	"	32.7	ND	117	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.2	37-154			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	45-149			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	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:
12/19/16 14:55

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

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

Batch 1612158 - EPA 5030 Water MS

Matrix Spike Dup (1612158-MSD1)		Source: 1612073-01			Prepared & Analyzed: 12/14/16					
Benzene	33.0	1.0	ug/l	33.3	ND	99.0	34-141	1.29	32	
Toluene	35.7	1.0	"	33.3	ND	107	27-151	0.816	25	
Ethylbenzene	39.4	1.0	"	33.1	ND	119	29-160	0.994	50	
m,p-Xylene	74.0	2.0	"	66.5	ND	111	20-166	1.48	36	
o-Xylene	39.0	1.0	"	32.7	ND	119	33-159	2.44	26	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3		102	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	45-149			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	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:
12/19/16 14:55

Notes and Definitions

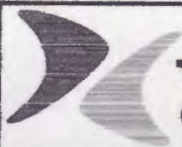
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix C
Site Investigation Lithologic Boring Logs

Borehole Logging Form

Boring/Well ID #: BH01-R	SITE NAME: Eaton Commons	CLIENT NAME: DCLP
Date Started: 10/20/16	Location: CR 39	
Date Completed: 10/20/16	TOC Elevation:	DTW:
Type of Drill: Direct Push	Geologist: BE	
Bit Size: 2.25"	Project Manager: BH	
Drilling Company: Tasman		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1							
2							Hard Black clay med plast
3				0.0		CL	moist, no HC, no stain
4			95%				very stiff lt. Brown clay med plasticity, moist, oxidized
5				0.0		CL	no HC odor, stain
6			100%	0.0		SP	4" lt Brown fine grained sand (4-4.35) no odor/stain
7				0.0		CL	very stiff clay black and tan, oxidized, no odor/stain moist, med plasticity
8			75%			CL	very stiff Brown clay med plasticity, oxidation, moist no odor/stain HC none
9				0.0			
10				0.0		SP-SM	4 tan, gray, fine sandy silt moist, non-plastic, no odor/stain
11	cap fringe		100%	0.0	yes		med Brown silt w/ clay moist med plasticity, no odor/stain
12				0.0			hard clay, oxidized tan sandy silt no odor/stain
13				0.0		ML	lt Brown fine sandy silt wet, no HC/no odor/stain
14				0.0			Interbeds of clay & silt to 14'
15							TD @ 14'
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							



TASMAN
GEOSCIENCES

Borehole Logging Form

Boring/Well ID #: <u>BH02-R</u>	SITE NAME: <u>Eaton Commons</u>	CLIENT NAME: <u>DCP</u>
Date Started: <u>10/20/16</u>	Location: <u>CR 34</u>	
Date Completed: <u>10/20/16</u>	TOC Elevation:	DTW:
Type of Drill: <u>DP</u>	Geologist: <u>BE</u>	
Bit Size: <u>2.25</u>	Project Manager: <u>BH</u>	
Drilling Company: <u>Tasman</u>		

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	cap sample ▽						no recovery Hand shovel to 5'
2							
3							
4						ML CL	Silt & clay - oxidized no odor/no stain, moist
5				0.0			
6				0.0		CL	Hard Brown clay, oxidized med. plast. moist, no H ₂ O odor/stain
7			100%				
8				0.0		ML	Soft silt tan, moist, low plast. no H ₂ O odor/stain - oxidation yes
9				0.0		CL	SAA Hard Brown, low plastic moist, no H ₂ O odor/stain
10				0.0	yes	ML	soft to med lt tan silt, nonplastic moist, horizontal bedding, oxidation no H ₂ O odor/staining
11				0.0			
12				0.0		ML	SAA - sandy silt wet, no H ₂ O odor/stain
13				0.0			
14							TD @ 13'
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							



TASMAN
GEOSCIENCES

Borehole Logging Form

Boring/Well ID #: BHO3-R

SITE NAME: Eaton Commons

CLIENT NAME: DCP

Date Started: 10/20/16

Location:

Date Completed: 10/20/16

TOC Elevation:

DTW:

Type of Drill: DP

Geologist: BE

Bit Size: 2.25

Project Manager: BH

Drilling Company: TGSman

Depth (feet)	Well Completion	Sample Type	% Recovery	PID (ppm)	Laboratory Sample	USCS	Description
1	cap fringe D						no recovery put back to 4'
2							
3							Sandy silt & clay no odor / no stain (H2) oxidation stain yes
4							
5			75%	0.0		CL	Hard Brown clay, moist low to med plasticity, no H2O odor oxidation stains throughout
6				0.0			
7				0.0			SNA - organic no odor
8			64%				
9							
10				0.0			Medium dens, Lt tan sandy silt moist, non plastic, no H2O odor stain oxidation
11				0.0	yes		
12				0.0			SAA
13				0.0			
14							FD @ 13'
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Appendix D
Supplemental Soil Investigation Laboratory Analytical Report

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 27, 2016

Steve Weathers
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 10/20/16 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01-R@10.5'	1610173-01	Soil	10/20/16 11:40	10/20/16 15:35
SS02-R@10'	1610173-02	Soil	10/20/16 13:05	10/20/16 15:35
SS03-R@10'	1610173-03	Soil	10/20/16 13:55	10/20/16 15:35

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: Steve Weathers

Reported:
10/27/16 14:23

Summit Scientific

S₂

1610173

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

Client: DCP Midstream Project Manager: Steve Weathers Page 1 of 1
Address: _____ E-Mail: swweathers@dcpmidstream.com
City/State/Zip: _____ blum@eaton.com
Phone: _____ Fax: _____ Project Name: Eaton Commons
Sampler Name: B. G. G. G. Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	DTX (GPA)	DTX (GPA)			
1	SS01-R @ 10.5'	10/20/16	11:40	1			X										
2	SS02-R @ 10'	10/20/16	13:05	1			X										
3	SS03-R @ 10'	10/20/16	13:55	1			X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Relinquished by: <u>[Signature]</u>	Date/Time: <u>3:35 10/20/16</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3:35 10/20/16</u>	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>6.8</u> Intact: <u>Yes</u> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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: Steve Weathers

Reported:
10/27/16 14:23

Sample Receipt Checklist

S2 Work Order: 1610173
Client: DCP Midstream Client Project ID: Eaton Commons
Shipped Via: Hand Delivered Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): Air 1 Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>6.0</u>				

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⁾ ?		✓		<u>on ice</u>
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			✓	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			✓	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Eric Havrath
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

10-20-16 3:35
Date/Time

[Signature]



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

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

SS01-R@10.5'
1610173-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 10/20/16 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1610236	10/21/16	10/21/16	8015M	

Date Sampled: 10/20/16 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/20/16 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1610239	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 10/20/16 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

SS02-R@10'
1610173-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1610236	10/21/16	10/21/16	8015M	

Date Sampled: **10/20/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1610239	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/16 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

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Denver CO, 80202

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

SS03-R@10'
1610173-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1610236	10/21/16	10/21/16	8015M	

Date Sampled: **10/20/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1610239	10/21/16	10/21/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/16 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

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Denver CO, 80202

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1610236 - EPA 3550A

Blank (1610236-BLK1)

Prepared & Analyzed: 10/21/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	11.5		"	12.5		91.6	30-150			

LCS (1610236-BS1)

Prepared & Analyzed: 10/21/16

C10-C28 (DRO)	531	50	mg/kg	499		107	73-134			
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

Matrix Spike (1610236-MS1)

Source: 1610173-01

Prepared & Analyzed: 10/21/16

C10-C28 (DRO)	440	50	mg/kg	499	10.5	86.1	50-148			
Surrogate: o-Terphenyl	11.9		"	12.5		95.4	30-150			

Matrix Spike Dup (1610236-MSD1)

Source: 1610173-01

Prepared & Analyzed: 10/21/16

C10-C28 (DRO)	426	50	mg/kg	497	10.5	83.5	50-148	3.36	20	
Surrogate: o-Terphenyl	11.8		"	12.5		94.5	30-150			

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

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

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

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

Batch 1610239 - EPA 5030 Soil MS

Blank (1610239-BLK1)

Prepared & Analyzed: 10/21/16

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0400		117	23-173			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	21-167			

LCS (1610239-BS1)

Prepared & Analyzed: 10/21/16

Benzene	0.0832	0.0020	mg/kg	0.100		83.2	58-130			
Toluene	0.0872	0.0050	"	0.100		87.2	61-134			
Ethylbenzene	0.107	0.0050	"	0.0992		108	74-139			
m,p-Xylene	0.193	0.010	"	0.200		96.6	73-137			
o-Xylene	0.0996	0.0050	"	0.0980		102	73-141			
Xylenes (total)	0.292	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.93	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0472		"	0.0400		118	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

Matrix Spike (1610239-MS1)

Source: 1610173-01

Prepared & Analyzed: 10/21/16

Benzene	0.0830	0.0020	mg/kg	0.0996	ND	83.3	30-131			
Toluene	0.0878	0.0050	"	0.0996	ND	88.2	30-134			
Ethylbenzene	0.110	0.0050	"	0.0988	ND	111	22-153			
m,p-Xylene	0.199	0.010	"	0.199	ND	100	10-159			
o-Xylene	0.102	0.0050	"	0.0976	ND	104	31-151			
Xylenes (total)	0.301	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	2.90	0.50	"		0.261		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0498		"	0.0398		125	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0398		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0398		105	21-167			

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

Project: Eaton Commons
Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

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

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

Batch 1610239 - EPA 5030 Soil MS

Matrix Spike Dup (1610239-MSD1)	Source: 1610173-01			Prepared & Analyzed: 10/21/16						
Benzene	0.0836	0.0020	mg/kg	0.0994	ND	84.1	30-131	0.769	34	
Toluene	0.0866	0.0050	"	0.0994	ND	87.1	30-134	1.43	30	
Ethylbenzene	0.106	0.0050	"	0.0986	ND	108	22-153	3.43	24	
m,p-Xylene	0.190	0.010	"	0.198	ND	95.8	10-159	4.57	68	
o-Xylene	0.0991	0.0050	"	0.0974	ND	102	31-151	2.61	38	
Xylenes (total)	0.289	0.0050	"		ND		30-150	3.90	20	
Gasoline Range Hydrocarbons	2.85	0.50	"		0.261		30-150	1.49	20	
Surrogate: 1,2-Dichloroethane-d4	0.0485		"	0.0398		122	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0398		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0398		102	21-167			

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Project: Eaton Commons

Project Number: [none]
Project Manager: Steve Weathers

Reported:
10/27/16 14:23

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