

Third Quarter 2018
Groundwater Monitoring and Site Remediation
Summary Report

Eaton Commons Release
Weld County, Colorado
Remediation #9251

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1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the third quarter 2018 at the Eaton Commons Release 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 Site remediation activities. Current Site groundwater conditions were evaluated from field data and analytical laboratory results collected during the reporting period on August 14 and 23, 2018.

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.

Additionally, in accordance with Form 27 (Document #200437203), supplemental remediation activities including impacted soil excavation and upgradient groundwater monitoring well installation activities were performed during the second quarter 2017. Additional details of the supplemental remediation activities were previously provided to the COGCC in the Second Quarter 2017 Groundwater Monitoring and Site Remediation Summary Report, dated August 1, 2017.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the third quarter 2018 groundwater monitoring event. Quarterly monitoring activities were conducted on August 14, 2018 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 to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the third quarter 2018, groundwater levels were measured at 11 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 third quarter 2018 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 BH10 and BH07R) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Third Quarter 2018 (8/14/2018)
Maximum Elevation (Well ID)	4,826.34 (BH10)
Minimum Elevation (Well ID)	4,818.01 (BH07R)
Average Change from Previous Monitoring Event – All Wells	2.67 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.047 (BH10 to BH07R)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from the 11 Site monitoring wells and the one remediation well (REM Well) using disposable polyethylene bailers.

A minimum of three well casing volumes of groundwater were purged from each monitor well or the water column was purged dry and allowed to sufficiently recover prior to collecting groundwater samples. At the horizontal remediation well (REM Well) a peristaltic pump was utilized for purging the well. 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 (4) 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 third quarter 2018 event are included in Appendix A and the laboratory analytical reports for the third quarter 2018 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- BTEX concentrations were reported below applicable COGCC Table 910-1 standards and below laboratory detection limits at 10 groundwater monitoring wells and the REM Well.
- Benzene was reported equal to the COGCC Table 910-1 standard at monitoring well BH03 with a detected concentration 5.0 micrograms per liter ($\mu\text{g/L}$) during the August 14, 2018 monitoring event. Therefore, a re-analysis of the sample was requested to confirm the result and the detected concentration for benzene was subsequently reported at 2.5 $\mu\text{g/L}$. However, adequate quality assurance/quality control (QA/QC) measures were not performed for the re-analysis and a batch QA/QC sample was not analyzed. Therefore, the re-analysis data is not considered useable and only the laboratory analytical report for the original sample is provided in Appendix B.
- Due to the original sample concentration and the re-analysis results described above, supplemental purging and groundwater sampling activities were conducted at monitoring well BH03 on August 23, 2018 to verify BTEX concentrations at that location. Benzene was reported slightly above the COGCC Table 910-1 standard with a detected concentration of 5.1 $\mu\text{g/L}$, confirming the original August 14, 2018 result. The remaining BTEX concentrations from August 23, 2018 at BH03 were below the respective COGCC Table 910-1 standards. The laboratory analytical report for the August 23, 2018 data is provided in Appendix B.

4. Remediation Activities

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

4.1 Groundwater Remediation Activities

Vacuum enhanced fluid recovery (EFR) groundwater remediation events have previously been conducted at the Site. During the 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. As reported in the *Second Quarter 2018 Groundwater Monitoring Summary Report*, EFR activities were discontinued to evaluate subsurface conditions in the absence of active groundwater remediation efforts. A project total of approximately 1,086 bbls of groundwater have been removed since EFR remediation activities were

initiated at the Site in August 2015 and recovered groundwater was disposed of at the NGL Water Solutions DJ, LLC, C-3 disposal well in LaSalle, CO.

Should BTEX concentrations increase during future quarterly monitoring events, additional remediation activities may be initiated.

5. Conclusions

Evaluation of the third quarter 2018 monitoring data provides the following general observations:

- During the third quarter 2018, groundwater flow at the Site was towards the northwest which is consistent with previous quarterly monitoring data.
- Groundwater elevations across the Site increased when compared to the second quarter 2018. The increase in groundwater elevation is likely attributed to seasonal variations.
- BTEX concentrations were below the applicable COGCC Table 910-1 standards and laboratory detection limits at 11 of the sampled Site wells.
- Benzene at BH03 was reported equal to and above the COGCC Table 910-1 standards with reported concentrations of 5.0 µg/L during the August 14th sampling event and 5.1 µg/L during the resample collected on August 23, 2018.
- The benzene concentration for BH03 from the re-analysis of the August 14, 2018 sample, while below COGCC Table 910-1 standards, is not considered useable as the laboratory did not perform adequate QA/QC measures to ensure data viability.

6. Recommendations

Based on evaluation of data and Site activities from the third quarter 2018, recommendations for the Site include:

- Continue quarterly groundwater monitoring and sampling at the monitoring well locations illustrated on Figure 2.
- Should benzene concentrations at monitoring well BH03 continue increase during future monitoring events, active groundwater remediation activities may be performed.

Tables

TABLE 1
THIRD QUARTER 2018
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	11/21/2017	6.24	10.59	4829.11	4822.87	-3.65
BH01	2/22/2018	7.55	10.62	4829.11	4821.56	-1.31
BH01	5/25/2018	6.65	10.60	4829.11	4822.46	0.90
BH01	8/14/2018	2.92	10.63	4829.11	4826.19	3.73
BH02	11/21/2017	7.53	10.52	4829.98	4822.45	-3.89
BH02	2/22/2018	8.62	10.58	4829.98	4821.36	-1.09
BH02	5/25/2018	7.60	10.50	4829.98	4822.38	1.02
BH02	8/14/2018	4.41	10.54	4829.98	4825.57	3.19
BH03	11/21/2017	10.24	11.12	4830.93	4820.69	-2.99
BH03	2/22/2018	11.03	11.15	4830.93	4819.90	-0.79
BH03	5/25/2018	10.03	11.10	4830.93	4820.90	1.00
BH03	8/14/2018	7.64	11.14	4830.93	4823.29	2.39
BH04	11/21/2017	9.52	11.23	4830.80	4821.28	-3.38
BH04	2/22/2018	10.57	11.27	4830.80	4820.23	-1.05
BH04	5/25/2018	9.29	11.20	4830.80	4821.51	1.28
BH04	8/14/2018	6.60	11.24	4830.80	4824.20	2.69
BH05	11/21/2017	8.13	10.68	4829.76	4821.63	-4.32
BH05	2/22/2018	9.24	10.75	4829.76	4820.52	-1.11
BH05	5/25/2018	7.88	10.67	4829.76	4821.88	1.36
BH05	8/14/2018	4.47	10.70	4829.76	4825.29	3.41
BH06	11/21/2017	11.31	14.63	4831.81	4820.50	-2.69
BH06	2/22/2018	12.05	14.69	4831.81	4819.76	-0.74
BH06	5/25/2018	11.09	14.61	4831.81	4820.72	0.96
BH06	8/14/2018	9.12	14.66	4831.81	4822.69	1.97
BH07R	11/21/2017	12.81	21.99	4830.24	4817.43	-0.74
BH07R	2/22/2018	12.82	22.10	4830.24	4817.42	-0.01
BH07R	5/25/2018	12.48	22.05	4830.24	4817.76	0.34
BH07R	8/14/2018	12.23	22.00	4830.24	4818.01	0.25
BH08	11/21/2017	12.82	24.07	4830.39	4817.57	-0.40
BH08	2/22/2018	12.66	24.13	4830.39	4817.73	0.16
BH08	5/25/2018	12.23	24.15	4830.39	4818.16	0.43
BH08	8/14/2018	11.95	24.04	4830.39	4818.44	0.28
BH09	11/21/2017	6.74	18.57	4829.63	4822.89	-3.79
BH09	2/22/2018	7.98	18.63	4829.63	4821.65	-1.24
BH09	5/25/2018	7.12	18.90	4829.63	4822.51	0.86
BH09	8/14/2018	3.31	19.00	4829.63	4826.32	3.81
BH10	11/21/2017	6.43	16.70	4829.35	4822.92	-3.83
BH10	2/22/2018	7.67	16.42	4829.35	4821.68	-1.24
BH10	5/25/2018	6.85	16.39	4829.35	4822.50	0.82
BH10	8/14/2018	3.01	15.98	4829.35	4826.34	3.84

TABLE 1
THIRD QUARTER 2018
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)
BH11	11/21/2017	7.38	16.63	4829.78	4822.40	-4.52
BH11	2/22/2018	8.54	16.10	4829.78	4821.24	-1.16
BH11	5/25/2018	7.28	16.10	4829.78	4822.50	1.26
BH11	8/14/2018	3.46	15.66	4829.78	4826.32	3.82
REM Well	11/21/2017	6.57	7.73	NM	NM	NA
REM Well	2/22/2018	DRY	7.70	NM	NM	NA
REM Well	5/25/2018	6.52	7.58	NM	NM	NA
REM Well	8/14/2018	2.88	7.70	NM	NM	NA
Average groundwater elevation change between 5/25/2018 to 8/14/18						2.67

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
THIRD QUARTER 2018
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	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH02	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH03	8/14/2018	5.0	<1.0	<1.0	<2.0	
BH03	8/23/2018	5.1	<1.0	2.6	<2.0	
BH04	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH05	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH06	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH07R	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH08	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH09	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH10	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH11	8/14/2018	<1.0	<1.0	<1.0	<2.0	
REM Well	8/14/2018	1.2	<1.0	<1.0	<2.0	

Notes:

1) The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 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

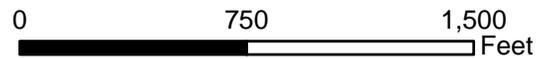
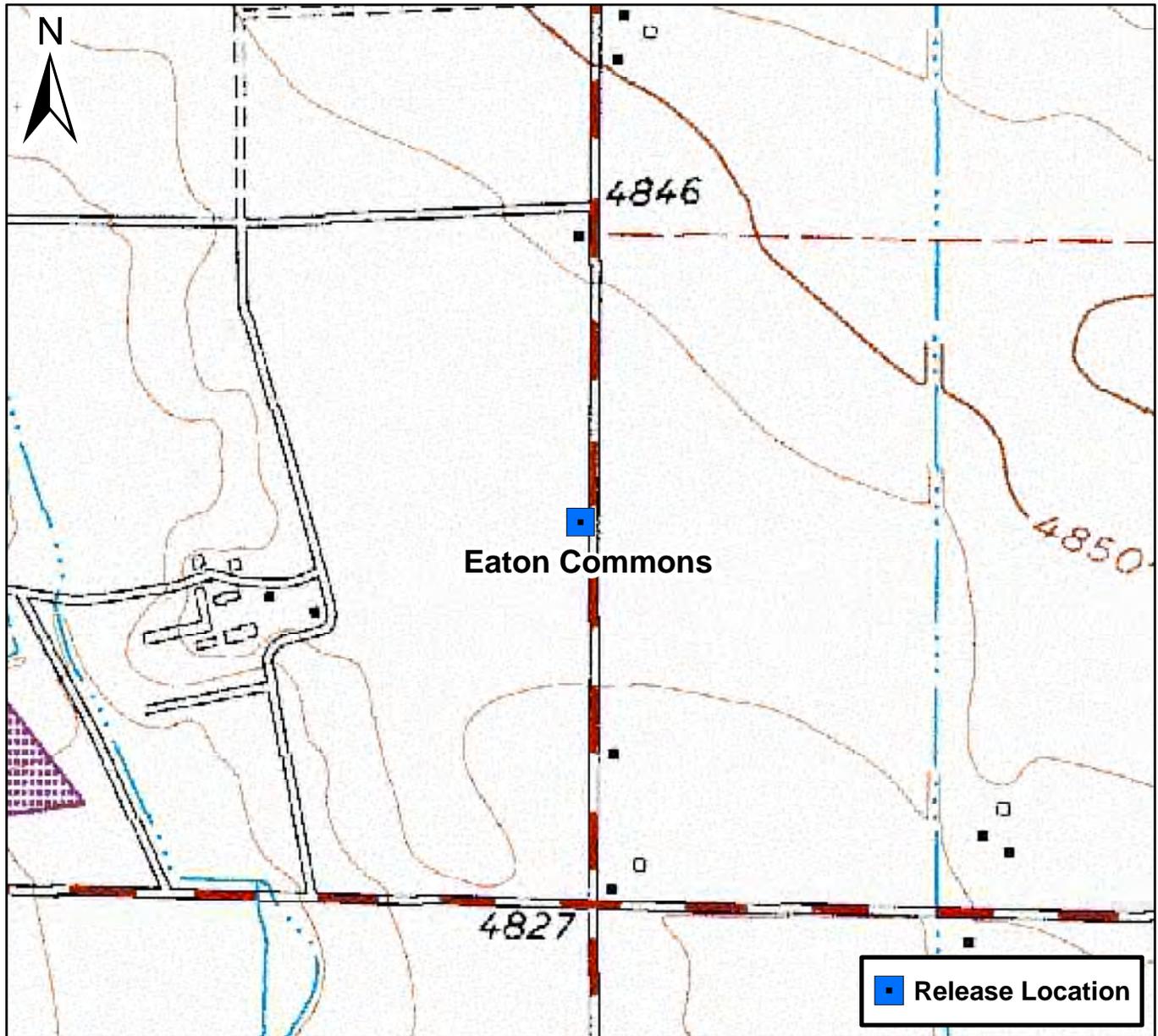


Figure 1

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





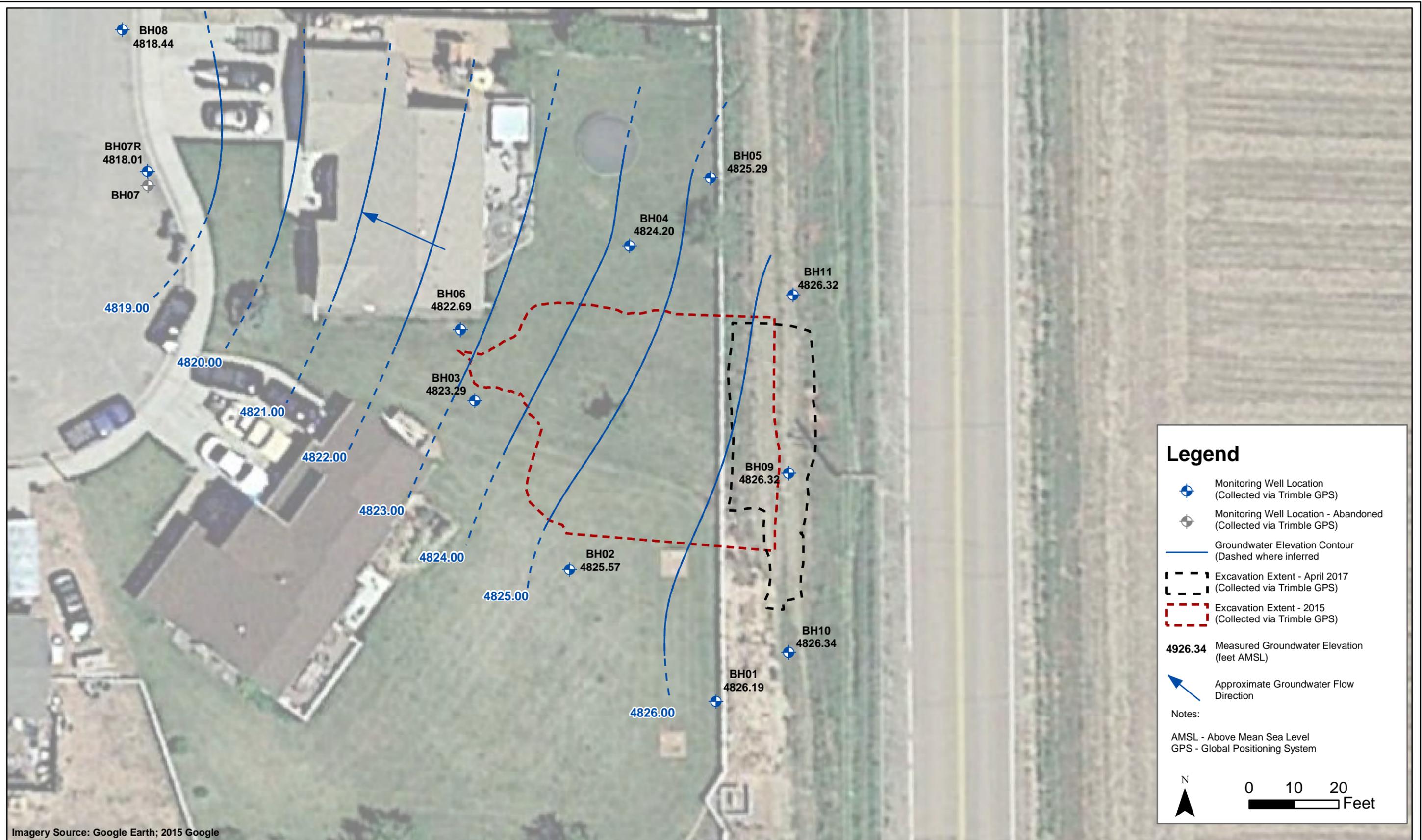
DATE:	August 2018
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



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

Site Overview
 Map with Well Locations

Figure
 2



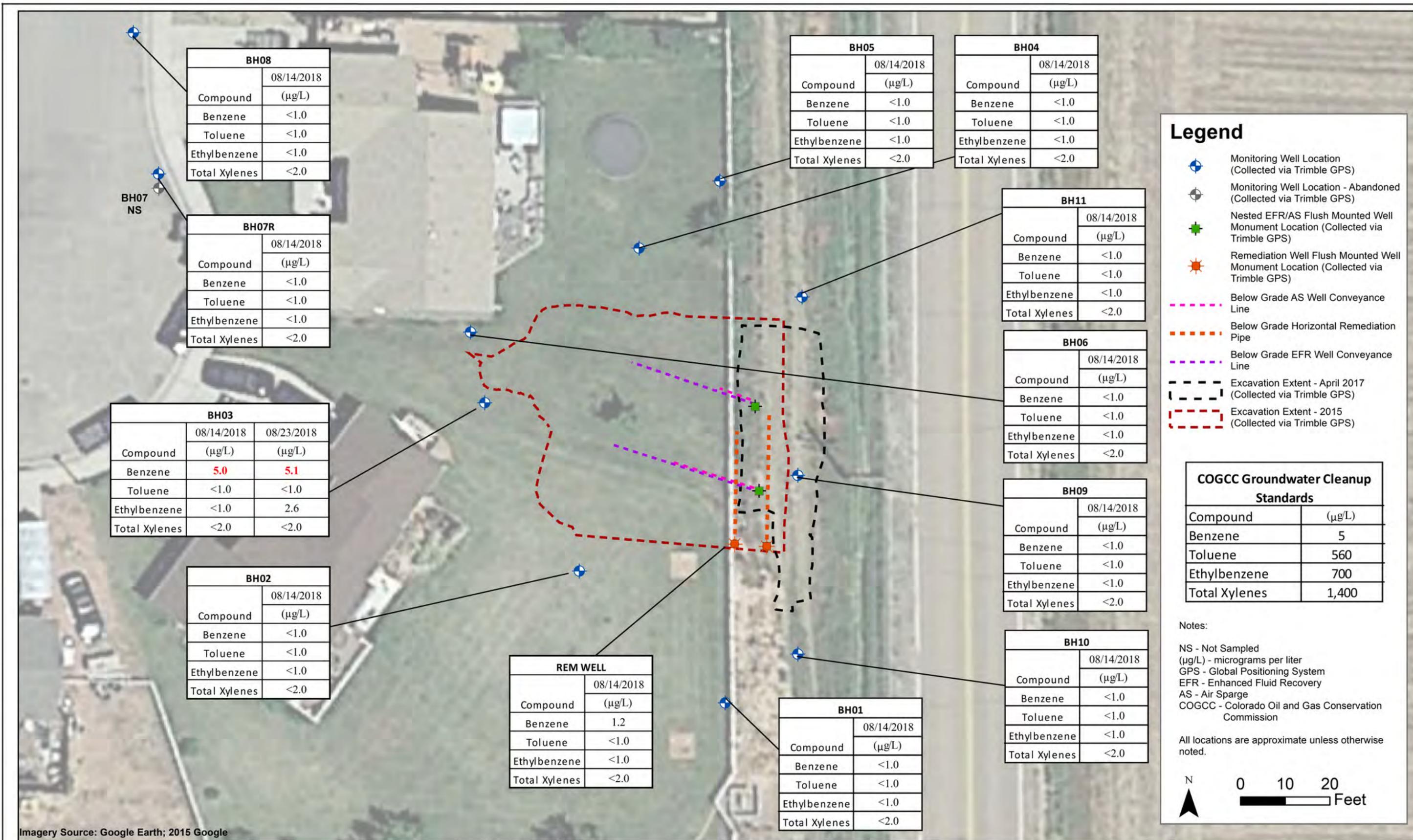
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**DCP Midstream
 Eaton Commons**
 NESE Section 31, Township 7 North, Range 65 West
 Weld County, Colorado

Groundwater Elevation
 Contour Map
 (August 14, 2018)

Figure
 3



DATE: August 2018
 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
 (August 14 & 23, 2018)

Figure
 4

Appendix A

Historical Analytical Results

**APPENDIX A
HISTORICAL GROUNDWATER 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	
BH01	3/15/2017	<1.0	<1.0	<1.0	<1.0	
BH01	5/30/2017	<1.0	<1.0	<1.0	<1.0	
BH01	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH01	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH01	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH01	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH01	8/14/2018	<1.0	<1.0	<1.0	<2.0	
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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	
BH02	3/15/2017	<1.0	<1.0	<1.0	<1.0	
BH02	5/30/2017	<1.0	<1.0	<1.0	<1.0	
BH02	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH02	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH02	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH02	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH02	8/14/2018	<1.0	<1.0	<1.0	<2.0	
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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				DRY
BH03	3/15/2017	Not Sampled				DRY
BH03	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH03	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH03	11/21/2017	2.9	<1.0	<1.0	<2.0	
BH03	2/22/2018	Not Sampled				Insufficient water volume
BH03	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH03	8/14/2018	5.0	<1.0	<1.0	<2.0	
BH03	8/23/2018	5.1	<1.0	2.6	<2.0	
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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	

**APPENDIX A
HISTORICAL GROUNDWATER 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	
BH04	8/25/2016	<1.0	<1.0	<1.0	<1.0	
BH04	12/12/2016	Not Sampled				DRY
BH04	3/15/2017	Not Sampled				DRY
BH04	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH04	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH04	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH04	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH04	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH04	8/14/2018	<1.0	<1.0	<1.0	<2.0	
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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	
BH05	3/15/2017	Not Sampled				Insufficient water volume
BH05	5/30/2017	230	3.1	8.1	16	
BH05	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH05	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH05	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH05	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH05	8/14/2018	<1.0	<1.0	<1.0	<2.0	
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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	
BH06	3/15/2017	<1.0	<1.0	<1.0	<1.0	
BH06	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH06	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH06	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH06	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH06	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH06	8/14/2018	<1.0	<1.0	<1.0	<2.0	
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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	
BH07R	3/15/2017	<1.0	<1.0	<1.0	<1.0	
BH07R	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH07R	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH07R	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH07R	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH07R	5/25/2018	<1.0	<1.0	<1.0	<2.0	

**APPENDIX A
HISTORICAL GROUNDWATER 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	
BH07R	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH08	10/22/2015	<1.0	<1.0	<1.0	<1.0	
BH08	2/19/2016	<1.0	<1.0	<1.0	<1.0	
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	
BH08	3/15/2017	<1.0	<1.0	<1.0	<1.0	
BH08	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH08	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH08	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH08	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH08	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH08	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH09 ⁽²⁾	5/30/2017	140	<1.0	<1.0	54	
BH09	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH09	11/21/2017	2.0	<1.0	<1.0	<2.0	
BH09	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH09	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH09	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH10 ⁽²⁾	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH10	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH10	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH10	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH10	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH10	8/14/2018	<1.0	<1.0	<1.0	<2.0	
BH11 ⁽²⁾	5/30/2017	<1.0	<1.0	<1.0	<2.0	
BH11	8/15/2017	<1.0	<1.0	<1.0	<2.0	
BH11	11/21/2017	<1.0	<1.0	<1.0	<2.0	
BH11	2/22/2018	<1.0	<1.0	<1.0	<2.0	
BH11	5/25/2018	<1.0	<1.0	<1.0	<2.0	
BH11	8/14/2018	<1.0	<1.0	<1.0	<2.0	

**APPENDIX A
HISTORICAL GROUNDWATER 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	
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				DRY
REM Well	3/15/2017	Not Sampled				DRY
REM Well	5/30/2017	<1.0	<1.0	<1.0	<2.0	
REM Well	8/15/2017	<1.0	<1.0	<1.0	<2.0	
REM Well	11/21/2017	8.5	<1.0	<1.0	<2.0	
REM Well	2/22/2018	Not Sampled				DRY
REM Well	5/25/2018	<1.0	<1.0	<1.0	<2.0	
REM Well	8/14/2018	1.2	<1.0	<1.0	<2.0	

Notes:

- 1) The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.
- 2) Monitoring well location installed on April 17, 2017.

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

µg/L = micrograms per liter.

Appendix B

Groundwater Laboratory Analytical Report

- Summit Scientific 1808193 and 1808312

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 17, 2018

Steve Weathers

DCP Midstream

370 17th Street, Suite 2500

Denver, CO 80202-5604

RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 08/14/18 17:00. 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', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



DCP Midstream
370 17th Street, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Steve Weathers

Reported:
08/17/18 08:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	1808193-01	Water	08/14/18 10:10	08/14/18 17:00
BH02	1808193-02	Water	08/14/18 10:12	08/14/18 17:00
BH03	1808193-03	Water	08/14/18 10:30	08/14/18 17:00
BH04	1808193-04	Water	08/14/18 10:22	08/14/18 17:00
BH05	1808193-05	Water	08/14/18 10:20	08/14/18 17:00
BH06	1808193-06	Water	08/14/18 10:35	08/14/18 17:00
BH07R	1808193-07	Water	08/14/18 10:00	08/14/18 17:00
BH08	1808193-08	Water	08/14/18 09:58	08/14/18 17:00
BH09	1808193-09	Water	08/14/18 11:20	08/14/18 17:00
BH10	1808193-10	Water	08/14/18 11:30	08/14/18 17:00
BH11	1808193-11	Water	08/14/18 11:22	08/14/18 17:00
Rem Well	1808193-12	Water	08/14/18 12:00	08/14/18 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.

Summit Scientific

1808193.1

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

Page 1 of 2

Client: DCP / Gasman
Address: 6899 N Teos
City/State/Zip: Denver / CO / 80221
Phone: 970-481-6909
Sampler Name: Max Dahlgren

Project Manager: Steve Weathers
E-Mail: SWWeathers@DCPmidstream.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 - Canister Serial #	Other (Specify)					
BH01	8-14-2018	1010	3	X				X								
BH02		1012														
BH03		1030														
BH04		1022														
BH05		1020														
BH06		1035														
BH07 K		1000														
BH08		958														
BH09		1120														
BH10		1130														

Relinquished by: <u>Allen Dahl</u>	Date/Time: <u>8-14-2018 17:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-14-18 17:00</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		
				Sample Integrity: Temperature Upon Receipt: <u>2.1</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Summit Scientific

1808193.2

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

Page 2 of 2

Client: DCP / Tasmac
Address: _____
City/State/Zip: _____
Phone: 970-481-6909 Fax: _____
Sampler Name: Max Dahlgren

Project Manager: Steve Weathers
E-Mail: SWWeathers@DCPMidstream.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 - Canister Serial #	Other (Specify)					
BH 11	8-14-2018	1122	3	X				X								
Rem Well	L	1200		L				L								
Relinquished by: <u>Alan Dahl</u>		Date/Time: <u>17:00 8-14-2018</u>		Received by: <u>[Signature]</u>		Date/Time: <u>8-14-18 1700</u>		Turn Around Time (Check)				Notes:				
								Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>								
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:								
								Temperature Upon Receipt: <u>2.1</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

Sample Receipt Checklist

S2 Work Order: 1808193

Client: DCP/TASMAN Client Project ID: EATON COMMONS

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

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

Temp (°C)	2.1
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met 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 samples with holding times due within 48 hours sample due within 48 hours present?			X	
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⁾ ?	X			HCL
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⁾ ?			X	
Record the pH in Comments.				
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.

Muri
 Custodian Printed Name or Initials

MA 8-14-18
 Signature or Initials of Custodian

18:00
 Date/Time



DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH01
1808193-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		120 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH02
1808193-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:12**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		119 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH03
1808193-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	5.0	1.0	ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.3	1.0	"	"	"	"	"	"	
Xylenes (total)	4.1	2.0	"	"	"	"	"	"	

Date Sampled: **08/14/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		127 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH04
1808193-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		125 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH05
1808193-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		118 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH06
1808193-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		120 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH07R
1808193-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		121 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH08
1808193-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 09:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH09
1808193-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %		21-167		"	"	"	"	

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, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH10
1808193-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		94.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %		21-167		"	"	"	"	

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DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

BH11
1808193-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 11:22**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		91.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %		21-167		"	"	"	"	

Summit Scientific

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DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

Rem Well
1808193-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/14/18 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	1.2	1.0		ug/l	1	1808206	08/15/18	08/16/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/14/18 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.2 %		23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.6 %		20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.5 %		21-167		"	"	"	"	

Summit Scientific

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DCP Midstream
370 17th Street, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Steve Weathers

Reported:
08/17/18 08:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1808206 - EPA 5030 Water MS

Blank (1808206-BLK1)

Prepared: 08/15/18 Analyzed: 08/16/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.2		88.6	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.7	21-167			

LCS (1808206-BS1)

Prepared: 08/15/18 Analyzed: 08/16/18

Benzene	26.4	1.0	ug/l	33.3		79.3	70-130			
Toluene	29.7	1.0	"	33.3		89.1	70-130			
Ethylbenzene	32.3	1.0	"	33.3		96.8	70-130			
m,p-Xylene	50.7	2.0	"	66.7		76.0	70-130			
o-Xylene	31.5	1.0	"	33.3		94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.2		93.2	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.8	21-167			

Matrix Spike (1808206-MS1)

Source: 1808192-01

Prepared: 08/15/18 Analyzed: 08/16/18

Benzene	26.4	1.0	ug/l	33.3	ND	79.3	70-130			
Toluene	29.8	1.0	"	33.3	ND	89.3	70-130			
Ethylbenzene	32.6	1.0	"	33.3	ND	97.9	70-130			
m,p-Xylene	50.2	2.0	"	66.7	ND	75.3	70-130			
o-Xylene	30.9	1.0	"	33.3	ND	92.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.9		"	13.2		90.2	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.3	21-167			

Summit Scientific

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DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 08/17/18 08:14

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 1808206 - EPA 5030 Water MS

Matrix Spike Dup (1808206-MSD1)

Source: 1808192-01

Prepared: 08/15/18 Analyzed: 08/16/18

Benzene	26.7	1.0	ug/l	33.3	ND	80.0	70-130	0.866	30	
Toluene	29.8	1.0	"	33.3	ND	89.4	70-130	0.101	30	
Ethylbenzene	32.5	1.0	"	33.3	ND	97.4	70-130	0.522	30	
m,p-Xylene	49.8	2.0	"	66.7	ND	74.7	70-130	0.720	30	
o-Xylene	31.2	1.0	"	33.3	ND	93.5	70-130	0.805	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.5</i>		<i>"</i>	<i>13.2</i>		<i>102</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>93.0</i>	<i>21-167</i>			

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, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Steve Weathers

Reported:
08/17/18 08:14

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

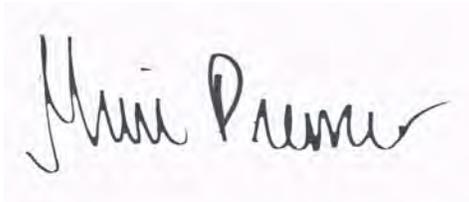
303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 28, 2018

Brian Humphrey
DCP Midstream
370 17th Street, Suite 2500
Denver, CO 80202-5604
RE: Eaton Commons

Enclosed are the results of analyses for samples received by Summit Scientific on 08/23/18 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury
Laboratory Manager



DCP Midstream
370 17th Street, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
08/28/18 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH03	1808312-01	Water	08/23/18 12:20	08/23/18 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.

Summit Scientific

1808312

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

Page 1 of 1

Client: Tasman Geoscience for DCP Midstream
Address: 6899 Pecos St. Unit C
City/State/Zip: Denver, CO 80221
Phone: 3033967887 Fax: _____
Sampler Name: Nick Kopiasz - James

Project Manager: Brian Humphrey, Steve Weathers
E-Mail: bhumphrey@tasman-geo.com, swwathers@dcpmidstream.com
Project Name: Eaton Commons Release
Project Number: Eaton Commons Release

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)	8260BTEX								
<u>RH03</u>	<u>8/23/18</u>	<u>1220</u>	<u>3</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>								

Relinquished by: <u>James C. [Signature]</u>	Date/Time: <u>8/23/18 17:00</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8-23-18 17:00</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 Hours <input type="checkbox"/>
				24 Hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
				48 Hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: <u>1</u>	
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample Receipt Checklist

S2 Work Order: 1808312

Client: TASMAN / OCP Client Project ID: EATON COMMONS RELEASE

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

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

Temp (°C)	<u>.1</u>
-----------	-----------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>			
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 samples with holding times due within 48 hours sample 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⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input checked="" type="checkbox"/>			<u>HCL</u>
If samples are acid preserved for metals, is the pH < 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
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.

Muri
Custodian Printed Name or Initials

M 8-23-18
Signature or Initials of Custodian

17:15
Date/Time



DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 08/28/18 13:56

BH03
1808312-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

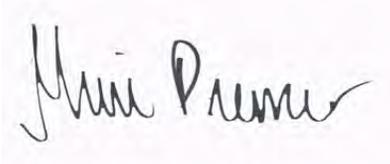
Date Sampled: **08/23/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	5.1	1.0	ug/l	1	1808294	08/24/18	08/25/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	2.6	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **08/23/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	21-167		"	"	"	"	

Summit Scientific



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DCP Midstream
370 17th Street, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
08/28/18 13:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1808294 - EPA 5030 Water MS

Blank (1808294-BLK1)

Prepared: 08/24/18 Analyzed: 08/25/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.2		95.0		23-173		
Surrogate: Toluene-d8	12.7		"	13.3		95.3		20-170		
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		94.0		21-167		

LCS (1808294-BS1)

Prepared: 08/24/18 Analyzed: 08/25/18

Benzene	29.1	1.0	ug/l	33.3		87.3		70-130		
Toluene	31.0	1.0	"	33.3		93.1		70-130		
Ethylbenzene	35.6	1.0	"	33.3		107		70-130		
m,p-Xylene	68.4	2.0	"	66.7		103		70-130		
o-Xylene	31.6	1.0	"	33.3		94.9		70-130		
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		97.3		23-173		
Surrogate: Toluene-d8	13.0		"	13.3		97.7		20-170		
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9		21-167		

Matrix Spike (1808294-MS1)

Source: 1808311-01

Prepared: 08/24/18 Analyzed: 08/25/18

Benzene	30.5	1.0	ug/l	33.3	1.41	87.3		70-130		
Toluene	31.1	1.0	"	33.3	ND	93.3		70-130		
Ethylbenzene	37.1	1.0	"	33.3	ND	111		70-130		
m,p-Xylene	71.9	2.0	"	66.7	3.29	103		70-130		
o-Xylene	32.5	1.0	"	33.3	ND	97.5		70-130		
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.2		96.1		23-173		
Surrogate: Toluene-d8	13.0		"	13.3		97.3		20-170		
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7		21-167		

Summit Scientific

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DCP Midstream
 370 17th Street, Suite 2500
 Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
 Project Manager: Brian Humphrey

Reported:
 08/28/18 13:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1808294 - EPA 5030 Water MS

Matrix Spike Dup (1808294-MSD1)

Source: 1808311-01

Prepared: 08/24/18 Analyzed: 08/25/18

Benzene	30.3	1.0	ug/l	33.3	1.41	86.6	70-130	0.856	30	
Toluene	31.0	1.0	"	33.3	ND	93.1	70-130	0.225	30	
Ethylbenzene	36.1	1.0	"	33.3	ND	108	70-130	2.79	30	
m,p-Xylene	70.4	2.0	"	66.7	3.29	101	70-130	2.07	30	
o-Xylene	32.4	1.0	"	33.3	ND	97.2	70-130	0.247	30	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		106	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.3	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	21-167			

Summit Scientific

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DCP Midstream
370 17th Street, Suite 2500
Denver CO, 80202-5604

Project: Eaton Commons

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
08/28/18 13:56

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