

Fourth Quarter 2018
Groundwater Monitoring Summary Report

Tampa Compressor Station Release
Weld County, Colorado
Remediation #9353

Prepared for:



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1. Introduction

This report summarizes the groundwater monitoring activities conducted during the fourth quarter 2018 at the Tampa Compressor Station, 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. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on November 15, 2018.

2. Site Location and Background

The Site is located in the southwestern quarter of the southwestern quarter of Section 31, Township 3 North, Range 63 West (approximate coordinates 40.176595 degrees north and -104.489837 degrees west), approximately 5 miles north on County Road (CR) 59 from Keenesburg, Colorado.

A petroleum hydrocarbon release originating from an underground pipeline occurred at the Site resulting in surface soil staining. DCP submitted an initial Form 19 on February 2, 2015, with a Supplemental Form 19 submitted on February 10, 2015, and the Colorado Oil and Gas Conservation Commission (COGCC) issued a spill tracking facility ID# 440770 for the Site.

Initial soil investigation activities conducted on February 2, 2015, indicated that surface soil impacts were above COGCC standards. On February 6, 2015, hydrovacuum excavation and soil removal activities of the surface stained soils to approximately 1-foot below ground surface (bgs) was conducted and approximately 14 cubic yards (yd³) of material was removed.

On February 13, 2015, three soil borings (BH01 – BH03) were advanced and soil samples were collected from just above the saturated interval at each location. Subsequently, these soil borings were completed as monitoring wells (BH01 – BH03). On February 19, 2015, initial groundwater monitoring activities were conducted at the well locations and light non-aqueous phase liquid (LNAPL) was observed in monitoring wells BH01 and BH03 with measured thicknesses of 3.14 feet and 1.83 feet, respectively. A groundwater sample was collected from BH02 and the laboratory analytical results from that well were below COGCC Table 910-1 standards. The monitoring well locations are illustrated on Figure 2.

On April 28, 2015, a vacuum enhanced fluid recovery (EFR) event was conducted at monitoring wells BH01 and BH03 and approximately 5 barrels (bbl) of liquid was removed. Additional source area excavation activities were conducted at the site between May 6 and 22, 2015, and approximately 210 yd³ of impacted soil and 33 bbl of groundwater were removed during excavation. Soil samples were collected during excavation activities and reported laboratory analytical results indicated impacted soil within the vadose zone remains in place in the northwest corner of the Site. Due to the existing infrastructure and off-site conditions, the impacted soil was left in place and in-situ remediation activities have been conducted. Additionally, during the May 2015 excavation activities, monitoring well BH01 was destroyed.

A Form 27 was submitted to the COGCC on November 4, 2015, and the COGCC issued remediation #9353 for the Site. In accordance with the approved work plan described in the Form 27, DCP installed an additional nine (9) temporary monitoring wells (BH04 through BH12) and replaced the destroyed BH01 with monitoring well BH01R (Figure 2). Quarterly groundwater monitoring activities were initiated at the Site in November 2015.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the fourth quarter 2018 groundwater monitoring event. Quarterly monitoring activities were conducted on November 15, 2018 and included Site-wide groundwater gauging and sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site. LNAPL was not observed within any of the Site monitoring wells during the fourth quarter 2018. LNAPL was last detected during the second quarter 2017 monitoring event at BH06.

3.1 Groundwater Elevation Monitoring

Groundwater levels were measured to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater and LNAPL elevations at the Site. During the fourth quarter 2018, groundwater levels were measured at 12 monitoring well locations (BH01R through BH12).

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 and LNAPL levels and the calculated groundwater elevations are presented in Table 1.

A fourth quarter 2018 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the northeast which is similar to previous quarterly monitoring data. The range of groundwater elevations, average elevation change from the previous monitoring event, and the calculated average hydraulic gradient (using elevations from BH04 and BH08) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Fourth Quarter 2018 (11/15/2018)
Maximum Elevation (Well ID)	4,795.92 (BH04)
Minimum Elevation (Well ID)	4,795.34 (BH07)
Average Change from Previous Monitoring Event – All Wells	0.01 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.007 (BH04 to BH08)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well location, groundwater samples were collected from 12 monitor wells 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. 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 ($^{\circ}\text{C}$) for transportation to the laboratory. Groundwater samples were then delivered under chain-of-custody procedures to Summit Scientific Laboratories (Summit) in Golden, Colorado 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. Historical analytical results up to and including the fourth quarter 2018 event are included in Appendix A and the laboratory analytical report is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- LNAPL was not measured in any of the twelve (12) monitoring well locations.
- The benzene concentrations at BH05 (18 micrograms per liter [$\mu\text{g}/\text{L}$]) and BH06 (230 $\mu\text{g}/\text{L}$) were in exceedance of the COGCC Table 910-1 standard of 5 $\mu\text{g}/\text{L}$. Benzene concentrations at the remaining well locations were below COGCC Table 910-1 standards and/or laboratory detection limits.
- Toluene concentrations were not in exceedance of the COGCC Table 910-1 standard of 560 $\mu\text{g}/\text{L}$ in any of the sampled monitor well locations. However, toluene was reported above laboratory detection limits at BH04 (1.2 $\mu\text{g}/\text{L}$), BH06 (10 $\mu\text{g}/\text{L}$), and BH11 (6.1 $\mu\text{g}/\text{L}$).
- The Ethylbenzene concentration at BH11 (770 $\mu\text{g}/\text{L}$) was in exceedance of the COGCC Table 910-1 standard of 700 $\mu\text{g}/\text{L}$. Ethylbenzene concentrations at the remaining well locations were below COGCC Table 910-1 standards and/or laboratory detection limits.
- The total xylenes concentration at BH06 (2,400 $\mu\text{g}/\text{L}$) was in exceedance of the COGCC Table 910-1 standard of 1,400 $\mu\text{g}/\text{L}$. Total xylenes concentrations at the remaining well locations were below the COGCC Table 910-1 standards and/or laboratory detection limits.

4. Remediation Activities

As reported in previous quarterly summary reports, and in accordance with the approved Form 27 Remediation Work Plan, vacuum enhanced fluid recovery (EFR) remediation activities were initiated at the Site during the second quarter 2016 to mitigate dissolved phase petroleum hydrocarbons and residual

LNAPL within groundwater at the Site. EFR remediation activities have been ongoing through May 17, 2017, in which a project total of approximately 1,188 barrels (bbls) of groundwater was removed between the second quarter 2016 and second quarter 2017 EFR remediation events. Recovered groundwater through EFR remediation was subsequently transported and disposed of at the NGL Water Solutions DJ, LLC, C-3 disposal well in LaSalle, CO. Subsequent to the EFR event conducted on May 17, 2017, EFR activities were discontinued to evaluate LNAPL recovery and dissolved phase petroleum hydrocarbon concentration trends.

Due to typically elevated dissolved phase petroleum hydrocarbon concentrations reported at BH05, BH06, and BH07, an alternative remedial approach utilizing mobile air sparge (AS) and soil vapor extraction (SVE) (AS/SVE) techniques was initiated at the Site on August 29, 2017. AS compressed air was delivered to monitoring wells BH05 and BH07 concurrent with SVE at monitoring wells BH01R, BH03, BH04, and BH06 for a continuous six-hour period. AS/SVE remediation activities were performed on a weekly schedule through February 7, 2018. Average AS delivery pressures were operated at 20 pounds per square inch (psi) with air delivery flow rates ranging between 14-32 cubic feet per minute (CFM). SVE vacuum pressures were operated between 25 and 150 inches of water (in/H₂O), depending on individual well performance conditions. Subsequent to the February 7, 2018 AS/SVE remedial event, AS/SVE efforts were discontinued to evaluate dissolved phase petroleum hydrocarbon concentration trends without the influence of active remediation.

5. Conclusions

Evaluation of the fourth quarter 2018 monitoring data provides the following observations:

- LNAPL was not observed in any of the twelve (12) monitoring well locations during the monitoring event and LNAPL has not been observed at the Site since May 2017.
- Benzene was reported above COGCC Table 910-1 standards at monitoring well locations BH05 and BH06 during the fourth quarter 2018.
- Ethylbenzene was reported above COGCC Table 910-1 standards at monitoring well BH11 during the fourth quarter 2018.
- Total xylenes concentrations were reported above COGCC Table 910-1 groundwater standards at monitoring well BH06 during the fourth quarter 2018.
- Generally, a decreasing trend in BTEX concentrations has been observed throughout the Site. Additionally, LNAPL has not been observed at the Site since May 2017, indicating that remedial efforts have been effective at reducing petroleum hydrocarbon impacts in the subsurface.

6. Recommendations

Based on evaluation of data from the fourth quarter 2018, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling activities at the monitoring well locations illustrated on Figure 2.
- Continue evaluation of subsurface conditions without the influence of active remediation. If groundwater concentrations increase during future monitoring events, the need for continued remediation activities will be evaluated.

Tables

TABLE 1
FOURTH QUARTER 2018
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event ⁽¹⁾ (feet)
BH01R	2/15/2018	10.36			15.32	4,805.57	4,795.21	0.00
BH01R	5/3/2018	10.45			15.45	4,805.57	4,795.12	-0.09
BH01R	8/28/2018	10.09			15.61	4,805.57	4,795.48	0.36
BH01R	11/15/2018	10.07			15.61	4,805.57	4,795.50	0.02
BH02	2/15/2018	12.45			18.52	4,807.70	4,795.25	-0.10
BH02	5/3/2018	12.43			18.63	4,807.70	4,795.27	0.02
BH02	8/28/2018	12.05			18.48	4,807.70	4,795.65	0.38
BH02	11/15/2018	12.05			18.48	4,807.70	4,795.65	0.00
BH03	2/15/2018	9.20			16.44	4,804.31	4,795.11	-0.19
BH03	5/3/2018	9.18			16.36	4,804.31	4,795.13	0.02
BH03	8/28/2018	8.82			16.33	4,804.31	4,795.49	0.36
BH03	11/15/2018	8.81			16.33	4,804.31	4,795.50	0.01
BH04	2/15/2018	11.46			16.18	4,806.95	4,795.49	-0.11
BH04	5/3/2018	11.63			16.29	4,806.95	4,795.32	-0.17
BH04	8/28/2018	11.04			16.29	4,806.95	4,795.91	0.59
BH04	11/15/2018	11.03			16.29	4,806.95	4,795.92	0.01
BH05	2/15/2018	11.97			15.50	4,806.51	4,794.54	-0.70
BH05	5/3/2018	11.54			15.95	4,806.51	4,794.97	0.43
BH05	8/28/2018	10.88			15.67	4,806.51	4,795.63	0.66
BH05	11/15/2018	10.78			15.67	4,806.51	4,795.73	0.10
BH06	2/15/2018	11.37			16.30	4,806.46	4,795.09	-0.35
BH06	5/3/2018	11.34			16.22	4,806.46	4,795.12	0.03
BH06	8/28/2018	10.94			16.22	4,806.46	4,795.52	0.40
BH06	11/15/2018	10.92			16.22	4,806.46	4,795.54	0.02

TABLE 1
FOURTH QUARTER 2018
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event ⁽¹⁾ (feet)
BH07	2/15/2018	11.24			15.43	4,806.01	4,794.77	-0.22
BH07	5/3/2018	11.21			15.32	4,806.01	4,794.80	0.03
BH07	8/28/2018	10.59			15.16	4,806.01	4,795.42	0.62
BH07	11/15/2018	10.67			15.16	4,806.01	4,795.34	-0.08
BH08	2/15/2018	8.81			15.29	4,803.78	4,794.97	-0.10
BH08	5/3/2018	8.80			15.14	4,803.78	4,794.98	0.01
BH08	8/28/2018	8.42			15.14	4,803.78	4,795.36	0.38
BH08	11/15/2018	8.42			15.14	4,803.78	4,795.36	0.00
BH09	2/15/2018	9.03			15.37	4,804.08	4,795.05	-0.08
BH09	5/3/2018	9.03			15.26	4,804.08	4,795.05	0.00
BH09	8/28/2018	8.69			15.27	4,804.08	4,795.39	0.34
BH09	11/15/2018	8.67			15.27	4,804.08	4,795.41	0.02
BH10	2/15/2018	10.02			15.30	4,805.37	4,795.35	-0.09
BH10	5/3/2018	10.02			15.24	4,805.37	4,795.35	0.00
BH10	8/28/2018	9.43			15.24	4,805.37	4,795.94	0.59
BH10	11/15/2018	9.65			15.24	4,805.37	4,795.72	-0.22
BH11	2/15/2018	9.79			14.45	4,804.97	4,795.18	-0.02
BH11	5/3/2018	9.80			14.45	4,804.97	4,795.17	-0.01
BH11	8/28/2018	9.68			15.25	4,804.97	4,795.29	0.12
BH11	11/15/2018	9.42			15.25	4,804.97	4,795.55	0.26
BH12	2/15/2018	10.09			15.30	4,805.13	4,795.04	-0.07
BH12	5/3/2018	10.08			15.22	4,805.13	4,795.05	0.01
BH12	8/28/2018	9.74			15.20	4,805.13	4,795.39	0.34
BH12	11/15/2018	9.71			15.20	4,805.13	4,795.42	0.03
Average change in groundwater elevation (8/28/2018 to 11/15/18)								0.01

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)

TD = Total Depth

TABLE 2
FOURTH QUARTER 2018
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01R	11/15/2018	<1.0	<1.0	5.2	<2.0	
BH02	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH03	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH04	11/15/2018	2.2	1.2	350	730	
BH05	11/15/2018	18	<1.0	3.6	7.2	
BH06	11/15/2018	230	10	620	2,400	
BH07	11/15/2018	<1.0	<1.0	<1.0	3.5	
BH08	11/15/2018	<1.0	<1.0	11	5.1	
BH09	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH10	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH11	11/15/2018	<1.0	6.1	770	640	
BH12	11/15/2018	<1.0	<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

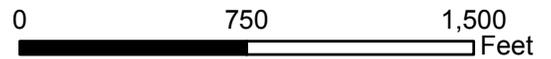
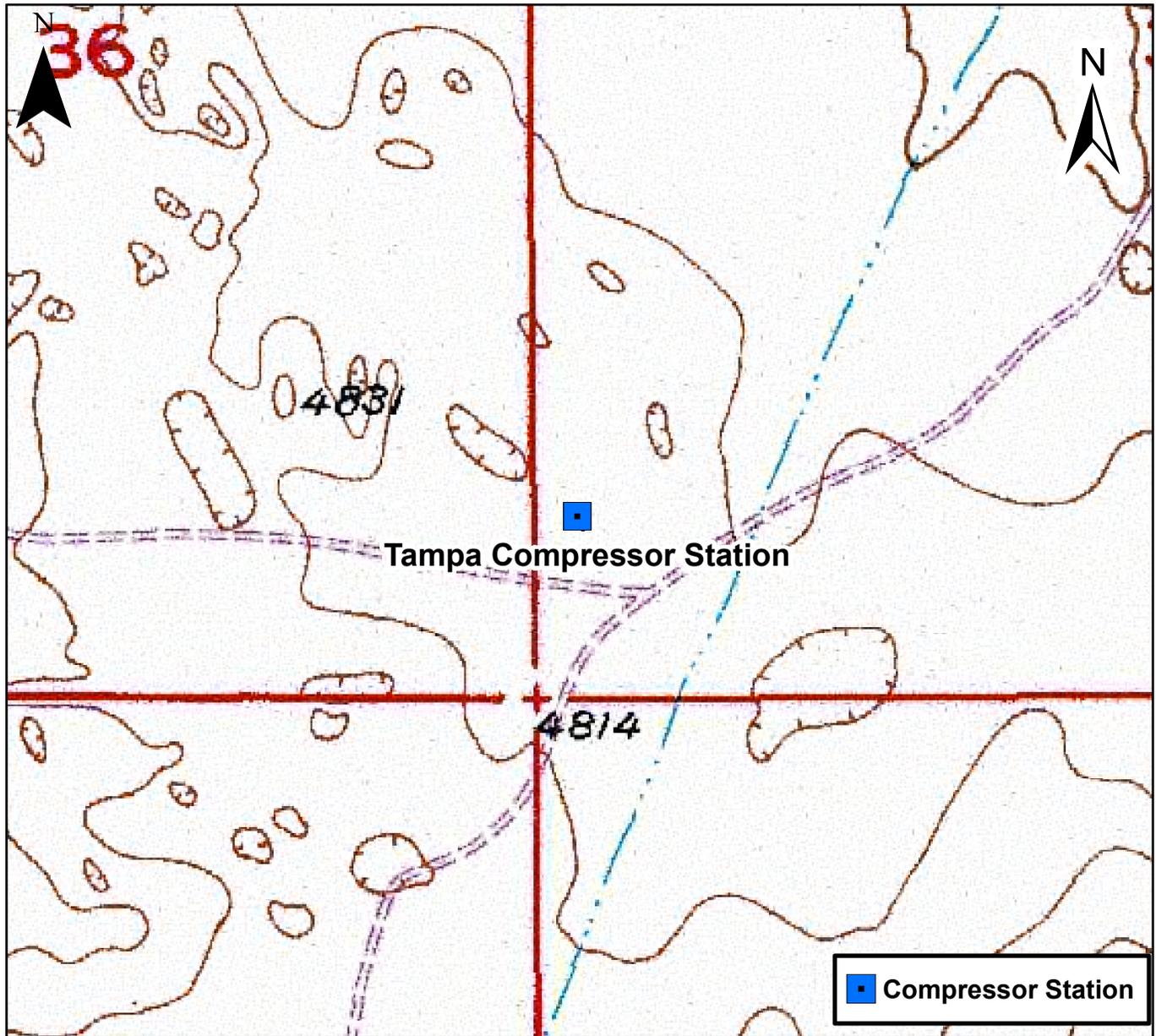
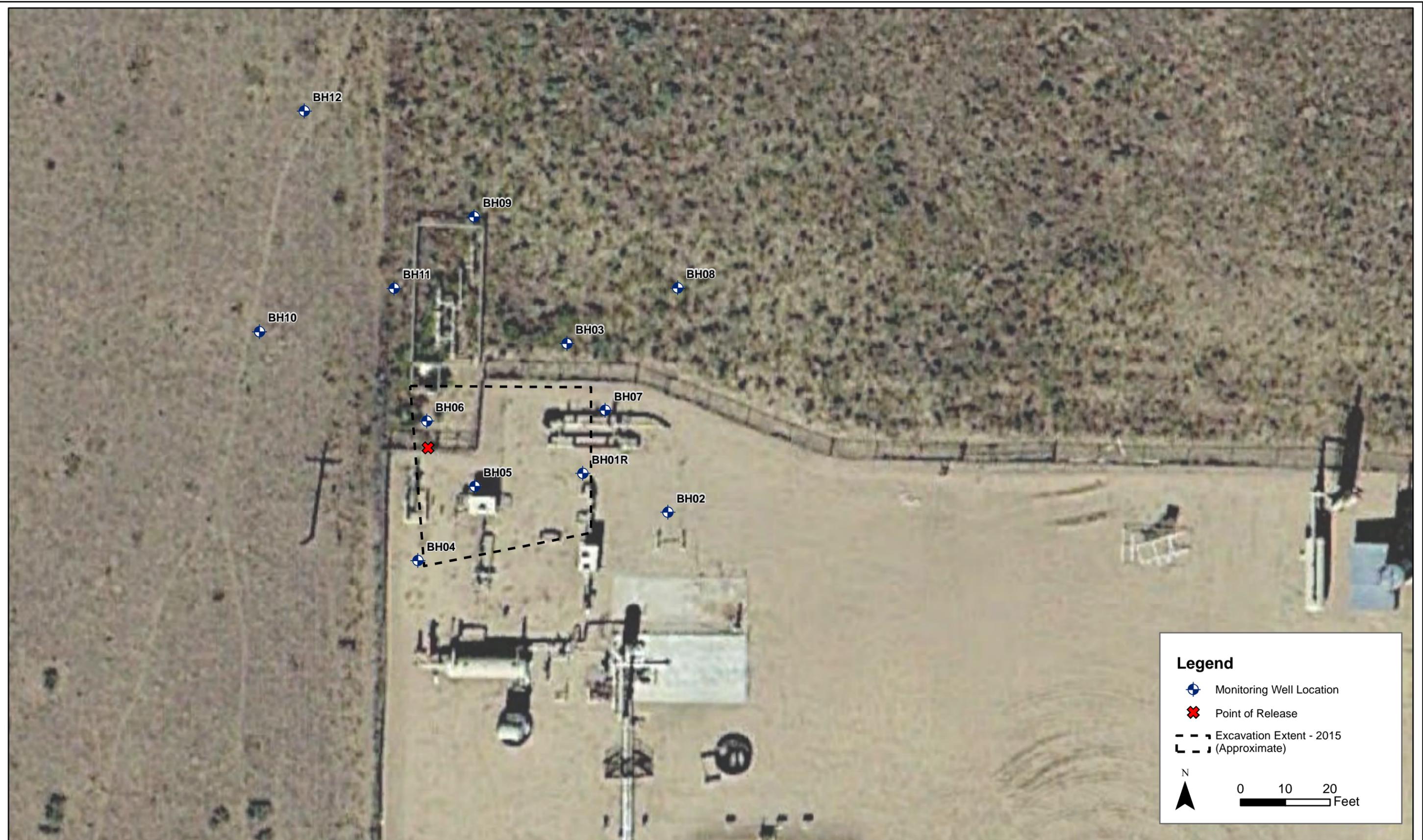


Figure 1

Site Location Map
 Tampa Compressor Station
 SWSW S31 T3N R63W
 Weld County, Colorado





DATE:
November 2018

DESIGNED BY:
B. Humphrey

DRAWN BY:
D. Arnold



DCP Midstream
Tampa Compressor Station
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Site Map with
Monitoring Well Locations

Figure
2



DATE:
November 2018

DESIGNED BY:
B. Humphrey

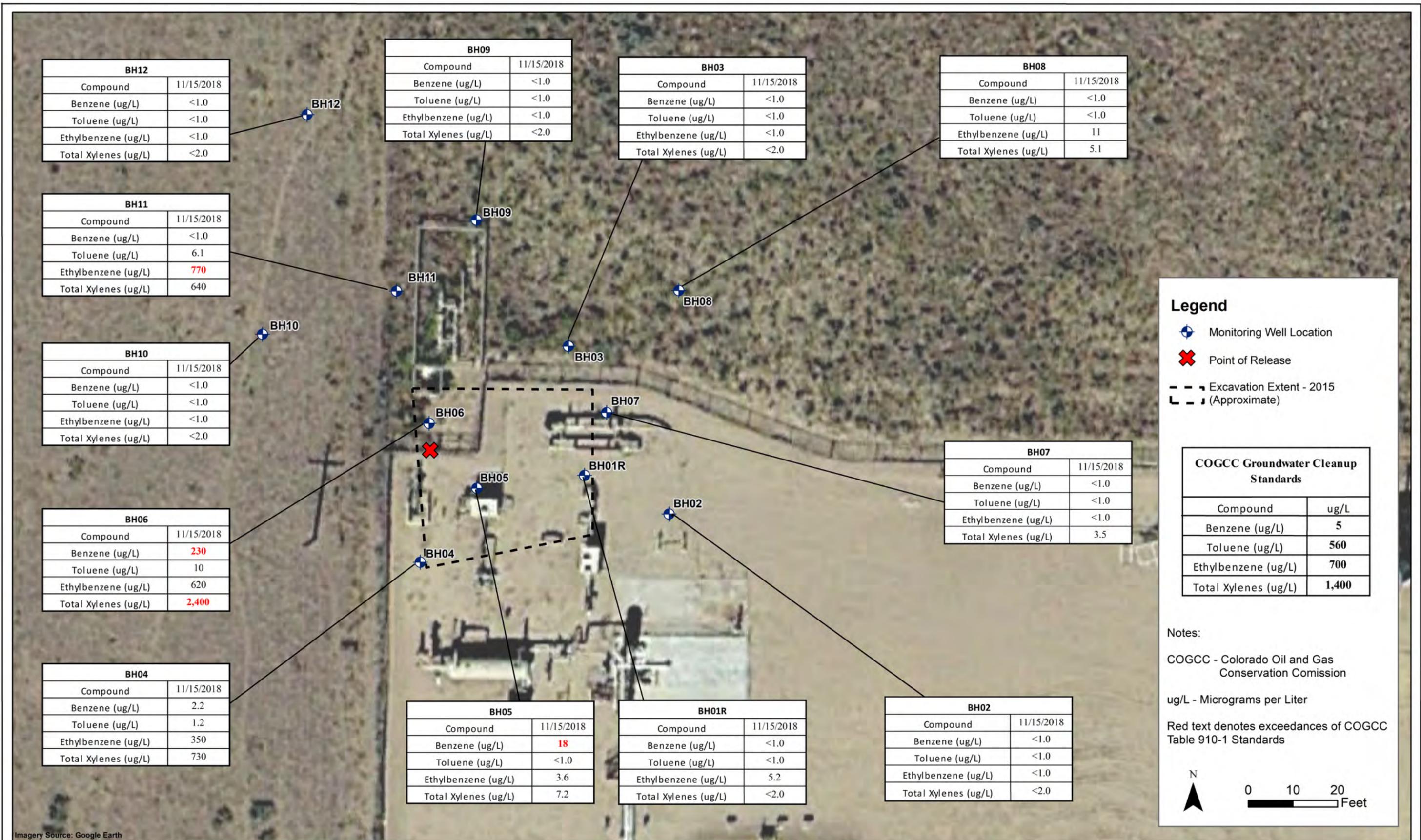
DRAWN BY:
D. Arnold



**DCP Midstream
Tampa Compressor Station**
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Groundwater Elevation
Contour Map
(November 15, 2018)

Figure
3



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



**DCP Midstream
 Tampa Compressor Station**
 SWSW Section 31, Township 3 North, Range 63 West
 Weld County, Colorado

Groundwater Analytical Results
 Map
 (November 15, 2018)

Figure
 4

Appendix A

Historical Groundwater Analytical Results

**APPENDIX A
HISTORICAL GROUNDWATER ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01	2/19/2015	NS	NS	NS	NS	LNAPL
BH01R	11/12/2015	82	<1.0	7.5	3.8	
BH01R	2/23/2016	35	<1.0	3.7	1.5	
BH01R	5/27/2016	4.2	<1.0	2.0	<1.0	
BH01R	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH01R	11/9/2016	<1.0	<1.0	3.4	<1.0	
BH01R	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH01R	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH01R	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH01R	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH01R	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH01R	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH01R	8/28/2018	<1.0	<1.0	3.4	<2.0	
BH01R	11/15/2018	<1.0	<1.0	5.2	<2.0	
BH02	2/19/2015	<1.0	1.7	<1.0	1.1	
BH02	11/12/2015	<1.0	1.6	<1.0	4.5	
BH02	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH02	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH02	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH02	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH02	2/1/2017	<1.0	<1.0	1.9	<1.0	
BH02	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH02	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH02	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH02	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH02	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH02	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH02	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH03	2/19/2015	NS	NS	NS	NS	LNAPL
BH03	11/12/2015	NS	NS	NS	NS	LNAPL
BH03	2/23/2016	NS	NS	NS	NS	LNAPL
BH03	5/27/2016	53	65	100	700	
BH03	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH03	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH03	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH03	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH03	8/2/2017	1.1	<1.0	<1.0	<2.0	
BH03	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH03	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH03	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH03	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH03	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH04	11/12/2015	NS	NS	NS	NS	LNAPL
BH04	2/23/2016	NS	NS	NS	NS	LNAPL
BH04	5/27/2016	120	490	560	2,600	
BH04	8/17/2016	28	73	140	840	LNAPL
BH04	11/9/2016	120	590	1,800	5,500	LNAPL
BH04	2/1/2017	3.9	46	220	560	
BH04	5/1/2017	1.0	13	83	280	
BH04	8/2/2017	<1.0	8.6	190	390	
BH04	11/28/2017	<1.0	3.7	140	440	
BH04	2/15/2018	<1.0	2.7	200	520	
BH04	5/3/2018	<1.0	<1.0	180	350	
BH04	8/28/2018	<1.0	1.0	160	370	
BH04	11/15/2018	2.2	1.2	350	730	

**APPENDIX A
HISTORICAL GROUNDWATER ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH05	11/12/2015	6,700	590	610	2,300	
BH05	2/23/2016	2,900	180	540	1,500	
BH05	5/27/2016	2,300	130	610	2,900	
BH05	8/17/2016	1,800	30	100	1,100	
BH05	11/9/2016	19,000	2,000	3,500	15,000	
BH05	2/1/2017	2,300	95	450	1,800	
BH05	5/1/2017	1,500	17	210	1,000	
BH05	8/2/2017	1,700	<1.0	230	1,400	
BH05	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH05	2/15/2018	1.6	<1.0	<1.0	<2.0	
BH05	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH05	8/28/2018	7.6	<1.0	3.6	7.3	
BH05	11/15/2018	18	<1.0	3.6	7.2	
BH06	11/12/2015	NS	NS	NS	NS	LNAPL
BH06	2/23/2016	NS	NS	NS	NS	LNAPL
BH06	5/27/2016	6,500	6,200	2,500	14,000	
BH06	8/17/2016	5,400	3,100	1,400	7,600	
BH06	11/9/2016	NS	NS	NS	NS	LNAPL
BH06	2/1/2017	2,000	800	510	2,100	LNAPL
BH06	5/1/2017	1,100	620	260	1,900	LNAPL
BH06	8/2/2017	3,000	2,600	570	4,100	
BH06	11/28/2017	1,400	770	190	1,900	
BH06	2/15/2018	1,300	340	1.7	2,100	
BH06	5/3/2018	690	500	230	2,200	
BH06	8/28/2018	370	17	560	2,000	
BH06	11/15/2018	230	10	620	2,400	
BH07	11/12/2015	1,600	1,000	290	1,000	
BH07	2/23/2016	130	70	170	110	
BH07	5/27/2016	3,100	1,500	500	2,700	
BH07	8/17/2016	2,500	170	550	2,600	
BH07	11/9/2016	790	71	510	2,400	
BH07	2/1/2017	240	30	410	2,000	
BH07	5/1/2017	56	9.3	300	1,400	
BH07	8/2/2017	26	5.3	130	1,600	
BH07	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH07	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH07	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH07	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH07	11/15/2018	<1.0	<1.0	<1.0	3.5	
BH08	11/12/2015	160	16	11	40	
BH08	2/23/2016	150	37	15	74	
BH08	5/27/2016	60	10	19	110	
BH08	8/17/2016	5.1	6.2	20	320	
BH08	11/9/2016	<1.0	<1.0	<1.0	9.1	
BH08	2/1/2017	4.6	<1.0	11	32	
BH08	5/1/2017	<1.0	<1.0	4.7	6.8	
BH08	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH08	11/28/2017	1.6	<1.0	7.5	41	
BH08	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH08	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH08	8/28/2018	<1.0	<1.0	9.7	<2.0	
BH08	11/15/2018	<1.0	<1.0	11	5.1	

**APPENDIX A
HISTORICAL GROUNDWATER ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH09	11/12/2015	610	46	18	80	
BH09	2/23/2016	23	<1.0	<1.0	<1.0	
BH09	5/27/2016	8.0	<1.0	<1.0	<1.0	
BH09	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH09	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH09	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH09	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH09	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH09	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH09	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH09	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH09	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH09	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH10	11/12/2015	<1.0	<1.0	<1.0	<1.0	
BH10	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH10	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH10	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH10	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH10	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH10	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH10	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH10	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH10	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH10	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH10	8/28/2018	<1.0	9.5	540	380	
BH10	11/15/2018	<1.0	<1.0	<1.0	<2.0	
BH11	11/12/2015	2,100	1,800	200	840	
BH11	2/23/2016	NS	NS	NS	NS	LNAPL
BH11	5/27/2016	2,100	180	600	1,900	
BH11	8/17/2016	1,100	3.5	34	770	
BH11	11/9/2016	27	<1.0	100	260	
BH11	2/1/2017	2.0	<1.0	290	330	
BH11	5/1/2017	<1.0	<1.0	160	14	
BH11	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH11	11/28/2017	<1.0	22	370	430	
BH11	2/15/2018	<1.0	32	210	440	
BH11	5/3/2018	<1.0	9.4	30	310	
BH11	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH11	11/15/2018	<1.0	6.1	770	640	

**APPENDIX A
HISTORICAL GROUNDWATER ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH12	11/12/2015	<1.0	<1.0	<1.0	<1.0	
BH12	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH12	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH12	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH12	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH12	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH12	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH12	8/2/2017	<1.0	<1.0	<1.0	<2.0	
BH12	11/28/2017	<1.0	<1.0	<1.0	<2.0	
BH12	2/15/2018	<1.0	<1.0	<1.0	<2.0	
BH12	5/3/2018	<1.0	<1.0	<1.0	<2.0	
BH12	8/28/2018	<1.0	<1.0	<1.0	<2.0	
BH12	11/15/2018	<1.0	<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.

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

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

Appendix B

Laboratory Analytical Report
Summit Scientific – 1811193

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 26, 2018

Steve Weathers

DCP Midstream

370 17th Street, Suite 2500

Denver, CO 80202-5604

RE: Tampa Compressor Station

Enclosed are the results of analyses for samples received by Summit Scientific on 11/15/18 19:35. 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: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
11/26/18 11:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R	1811193-01	Water	11/15/18 11:05	11/15/18 19:35
BH02	1811193-02	Water	11/15/18 10:55	11/15/18 19:35
BH03	1811193-03	Water	11/15/18 11:45	11/15/18 19:35
BH04	1811193-04	Water	11/15/18 12:34	11/15/18 19:35
BH05	1811193-05	Water	11/15/18 12:45	11/15/18 19:35
BH06	1811193-06	Water	11/15/18 12:55	11/15/18 19:35
BH07	1811193-07	Water	11/15/18 11:20	11/15/18 19:35
BH08	1811193-08	Water	11/15/18 11:35	11/15/18 19:35
BH09	1811193-09	Water	11/15/18 11:55	11/15/18 19:35
BH10	1811193-10	Water	11/15/18 12:25	11/15/18 19:35
BH11	1811193-11	Water	11/15/18 12:05	11/15/18 19:35
BH12	1811193-12	Water	11/15/18 12:15	11/15/18 19:35

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.

Sample Receipt Checklist

S2 Work Order 1811193

Client: DCP/Tasman Client Project ID: Tampa Compressor Station

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other P.V. Airbill #: _____

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

Temp (°C)	<u>4.8</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"/>			HCl
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.

CP
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

11-15-18 1935
Date/Time



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

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH01R
1811193-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	5.2	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/15/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	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: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH02
1811193-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 10:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH03
1811193-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.3 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH04
1811193-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	2.2	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	1.2	1.0		"	"	"	"	"	"	
Ethylbenzene	350	10		"	10	"	"	"	"	
Xylenes (total)	730	20		"	"	"	"	"	"	

Date Sampled: **11/15/18 12:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		90.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH05
1811193-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	18	1.0	ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	3.6	1.0	"	"	"	"	"	"	
Xylenes (total)	7.2	2.0	"	"	"	"	"	"	

Date Sampled: **11/15/18 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.4 %	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: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH06
1811193-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	230	100	ug/l	100	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	10	1.0	"	1	"	"	"	"	
Ethylbenzene	620	100	"	100	"	"	"	"	
Xylenes (total)	2400	200	"	"	"	"	"	"	

Date Sampled: **11/15/18 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	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: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH07
1811193-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	3.5	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 11:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		95.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %		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: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH08
1811193-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	11	1.0		"	"	"	"	"	"	
Xylenes (total)	5.1	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 11:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %		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: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH09
1811193-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 11:55**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH10
1811193-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 12:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		89.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %		21-167		"	"	"	"	

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Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH11
1811193-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	6.1	1.0		"	"	"	"	"	"	
Ethylbenzene	770	10		"	10	"	"	"	"	
Xylenes (total)	640	20		"	"	"	"	"	"	

Date Sampled: **11/15/18 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.6 %		21-167		"	"	"	"	

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Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

BH12
1811193-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/15/18 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1811221	11/16/18	11/19/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/15/18 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		88.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %		21-167		"	"	"	"	

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Project Number: [none]
Project Manager: Steve Weathers

Reported:
11/26/18 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch 1811221 - EPA 5030 Water MS

Blank (1811221-BLK1)

Prepared: 11/16/18 Analyzed: 11/19/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.2		92.0	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	20-170			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		88.0	21-167			

LCS (1811221-BS1)

Prepared: 11/16/18 Analyzed: 11/19/18

Benzene	36.4	1.0	ug/l	33.3		109	70-130			
Toluene	38.5	1.0	"	33.3		116	70-130			
Ethylbenzene	35.1	1.0	"	33.3		105	70-130			
m,p-Xylene	86.9	2.0	"	66.7		130	70-130			
o-Xylene	40.2	1.0	"	33.3		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2		94.2	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.7	20-170			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.3	21-167			

Matrix Spike (1811221-MS1)

Source: 1811191-01

Prepared: 11/16/18 Analyzed: 11/19/18

Benzene	36.2	1.0	ug/l	33.3	ND	109	70-130			
Toluene	38.6	1.0	"	33.3	ND	116	70-130			
Ethylbenzene	34.6	1.0	"	33.3	ND	104	70-130			
m,p-Xylene	85.0	2.0	"	66.7	ND	128	70-130			
o-Xylene	39.5	1.0	"	33.3	ND	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.2		95.5	23-173			
Surrogate: Toluene-d8	12.5		"	13.3		93.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.4	21-167			

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Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 11/26/18 11:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch 1811221 - EPA 5030 Water MS

Matrix Spike Dup (1811221-MSD1)	Source: 1811191-01			Prepared: 11/16/18 Analyzed: 11/19/18					
Benzene	36.3	1.0	ug/l	33.3	ND	109	70-130	0.248	30
Toluene	39.5	1.0	"	33.3	ND	118	70-130	2.38	30
Ethylbenzene	35.9	1.0	"	33.3	ND	108	70-130	3.61	30
m,p-Xylene	68.6	2.0	"	66.7	ND	103	70-130	21.4	30
o-Xylene	40.7	1.0	"	33.3	ND	122	70-130	2.89	30
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.2		94.3	23-173		
Surrogate: Toluene-d8	12.5		"	13.3		94.0	20-170		
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		89.6	21-167		

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Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
11/26/18 11:29

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