

Second Quarter 2017
Groundwater Monitoring Summary Report

Tampa Compressor Station Release
Weld County, Colorado
Remediation #9353

Prepared for:



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August 1, 2017

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1. Introduction

This report summarizes the groundwater monitoring activities conducted during the second quarter 2017 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 May 1, 2017.

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. On February 19, 2015, 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. Locations of the soil borings 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 during that event. 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 based on the laboratory analytical results, 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 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 and replaced the destroyed BH01 (Figure 2). Furthermore, DCP initiated approved groundwater monitoring activities at the Site.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the second quarter 2017 groundwater monitoring event. Quarterly monitoring activities were conducted on May 1, 2017, and included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater Elevation Monitoring

Groundwater and LNAPL levels were measured to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater and LNAPL elevations at the Site. During the second quarter 2017, groundwater and LNAPL levels, where present, 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 second quarter 2017 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

	Second Quarter 2017 (05/01/2017)
Maximum Elevation (Well ID)	4,795.55 (BH04)
Minimum Elevation (Well ID)	4,794.98 (BH08)
Average Change from Previous Monitoring Event – All Wells	-0.06 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.0067 (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 prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were

then delivered under chain-of-custody procedures to Summit Scientific Laboratories (Summit) in Golden, 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. Historic analytical results up to and including the second quarter 2017 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 observed in monitoring well BH06, with a measurable thickness of 0.02 feet. Subsequent to purging the LNAPL from the well and removing three purge volumes, an analytical groundwater sample was collected to evaluate the dissolved phase BTEX concentrations at that location. The results of the BTEX concentrations at that location are described below.
- Benzene concentrations in groundwater samples from monitoring wells BH05 (1,500 micrograms per liter [$\mu\text{g/L}$]), BH06 (1,100 $\mu\text{g/L}$), and BH07 (56 $\mu\text{g/L}$) were in exceedance of the COGCC Table 910-1 standard of 5 $\mu\text{g/L}$.
- The toluene concentration in the groundwater sample from monitoring well BH06 (620 $\mu\text{g/L}$) was in exceedance of the COGCC Table 910-1 standard of 560 $\mu\text{g/L}$.
- Ethylbenzene concentrations were not in exceedance of the COGCC Table 910-1 standard of 700 $\mu\text{g/L}$ in any of the sampled monitor well locations.
- Total xylenes concentrations in groundwater samples from monitoring wells BH06 (1,900 $\mu\text{g/L}$) and BH07 (1,400 $\mu\text{g/L}$) were in exceedance of the COGCC Table 910-1 standard of 1,400 $\mu\text{g/L}$.
- BTEX concentrations from the remaining sample locations were below COGCC standards and/or laboratory detection limits.

4. Remediation Activities

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 and continued through the first quarter 2017. During the first quarter 2017, ongoing EFR remediation events were discontinued to evaluate potential LNAPL recovery and to observe the dissolved phase petroleum hydrocarbon concentration trends while active groundwater remediation efforts were not occurring. A project total of approximately 1,088 barrels (bbls) of groundwater was removed between the second quarter 2016 and first 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. Contingent on the observations during subsequent monitoring efforts, active groundwater remediation efforts at the Site may be resumed.

5. Conclusions

Observations of the second quarter 2017 monitoring data provides the following:

- LNAPL was observed in monitoring well BH06 during the second quarter 2017 with a measured thickness of 0.02 feet. The LNAPL and three well purge volumes were subsequently removed the well from prior to collecting a laboratory analytical sample.
- One or more BTEX concentrations that exceeded the COGCC applicable groundwater standards were detected in three (3) of the 12 sampled monitoring well locations as described in Section 3.2.
- The BTEX concentrations at the remaining well locations were below applicable COGCC standards and/or laboratory detection limits.
- BTEX concentrations and LNAPL levels decreased throughout the Site when compared to the first quarter 2017 monitoring event.

6. Recommendations

Based on evaluation of data from the second quarter 2017, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling activities at the monitoring well locations illustrated on Figure 2.
- Contingent on third quarter 2017 groundwater monitoring results, resume EFR activities at the Site wells with observable LNAPL thicknesses, if applicable.
- Once LNAPL is no longer observed at the Site, initiate mobile air sparge (AS) and soil vapor extraction (SVE) groundwater remediation activities at the Site. AS/SVE will be applied at monitor well locations that exhibit elevated dissolved phase petroleum hydrocarbon concentrations. AS/SVE will be conducted at the Site for a minimum 6-hour period during each event and sparge air will be applied to the well locations strategically, in conjunction with SVE, to eliminate migration of dissolved phase impacts off-Site.

Tables

TABLE 1
SECOND QUARTER 2017
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	8/17/2016	9.86			15.89	4,805.57	4,795.71	0.39
BH01R	11/9/2016	10.13			NM	4,805.57	4,795.44	-0.27
BH01R	2/1/2017	10.24			NM	4,805.57	4,795.33	-0.11
BH01R	5/1/2017	10.29			NM	4,805.57	4,795.28	-0.05
BH02	8/17/2016	12.02			18.82	4,807.70	4,795.68	0.39
BH02	11/9/2016	12.30			NM	4,807.70	4,795.40	-0.28
BH02	2/1/2017	12.38			NM	4,807.70	4,795.32	-0.08
BH02	5/1/2017	12.45			NM	4,807.70	4,795.25	-0.07
BH03	8/17/2016	8.78			16.43	4,804.31	4,795.53	0.37
BH03	11/9/2016	9.15			NM	4,804.31	4,795.16	-0.37
BH03	2/1/2017	9.13			NM	4,804.31	4,795.18	0.02
BH03	5/1/2017	9.18			NM	4,804.31	4,795.13	-0.05
BH04	8/17/2016	11.09	11.03	0.06	16.25	4,806.95	4,795.90	0.35
BH04	11/9/2016	11.31	11.25	0.06	NM	4,806.95	4,795.68	-0.22
BH04	2/1/2017	11.34			NM	4,806.95	4,795.61	-0.07
BH04	5/1/2017	11.40			NM	4,806.95	4,795.55	-0.06
BH05	8/17/2016	10.69			16.20	4,806.51	4,795.82	1.21
BH05	11/9/2016	10.98			NM	4,806.51	4,795.53	-0.29
BH05	2/1/2017	11.05			NM	4,806.51	4,795.46	-0.07
BH05	5/1/2017	11.12			NM	4,806.51	4,795.39	-0.07
BH06	8/17/2016	10.73			15.94	4,806.46	4,795.73	0.37
BH06	11/9/2016	11.09	10.93	0.16	NM	4,806.46	4,795.49	-0.24
BH06	2/1/2017	11.12	11.07	0.05	NM	4,806.46	4,795.37	-0.11
BH06	5/1/2017	11.13	11.11	0.02	NM	4,806.46	4,795.34	-0.03
BH07	8/17/2016	10.42			15.20	4,806.01	4,795.59	0.39
BH07	11/9/2016	10.69			NM	4,806.01	4,795.32	-0.27
BH07	2/1/2017	10.77			NM	4,806.01	4,795.24	-0.08
BH07	5/1/2017	10.83			NM	4,806.01	4,795.18	-0.06
BH08	8/17/2016	8.39			15.16	4,803.78	4,795.39	0.41
BH08	11/9/2016	8.66			NM	4,803.78	4,795.12	-0.27
BH08	2/1/2017	8.75			NM	4,803.78	4,795.03	-0.09
BH08	5/1/2017	8.80			NM	4,803.78	4,794.98	-0.05
BH09	8/17/2016	8.65			15.20	4,804.08	4,795.43	0.40
BH09	11/9/2016	8.89			NM	4,804.08	4,795.19	-0.24
BH09	2/1/2017	8.97			NM	4,804.08	4,795.11	-0.08
BH09	5/1/2017	9.03			NM	4,804.08	4,795.05	-0.06
BH10	8/17/2016	9.66			15.28	4,805.37	4,795.71	0.39
BH10	11/9/2016	9.88			NM	4,805.37	4,795.49	-0.22
BH10	2/1/2017	9.97			NM	4,805.37	4,795.40	-0.09
BH10	5/1/2017	10.02			NM	4,805.37	4,795.35	-0.05
BH11	8/17/2016	9.42			14.49	4,804.97	4,795.55	0.39
BH11	11/9/2016	9.65			NM	4,804.97	4,795.32	-0.23
BH11	2/1/2017	9.72			NM	4,804.97	4,795.25	-0.07

TABLE 1
SECOND QUARTER 2017
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)
BH11	5/1/2017	9.79			NM	4,804.97	4,795.18	-0.07
BH12	8/17/2016	9.69			15.28	4,805.13	4,795.44	0.41
BH12	11/9/2016	9.92			NM	4,805.13	4,795.21	-0.22
BH12	2/1/2017	10.02			NM	4,805.13	4,795.11	-0.10
BH12	5/1/2017	10.07			NM	4,805.13	4,795.06	-0.05
Average change in groundwater elevation (2/1/17 to 5/1/2017)								-0.06

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)

* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density is assumed to be approximately 0.75

NA = Not Applicable

TD = Total Depth

TABLE 2
SECOND QUARTER 2017
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)⁽¹⁾		5	560	700	1,400	
BH01R	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH02	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH03	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH04	5/1/2017	1.0	13	83	280	
BH05	5/1/2017	1,500	17	210	1,000	
BH06	5/1/2017	1,100	620	260	1,900	
BH07	5/1/2017	56	9.3	300	1,400	
BH08	5/1/2017	<1.0	<1.0	4.7	6.8	
BH09	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH10	5/1/2017	<1.0	<1.0	<1.0	<2.0	
BH11	5/1/2017	<1.0	<1.0	160	14	
BH12	5/1/2017	<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.

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

Figures

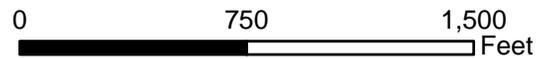
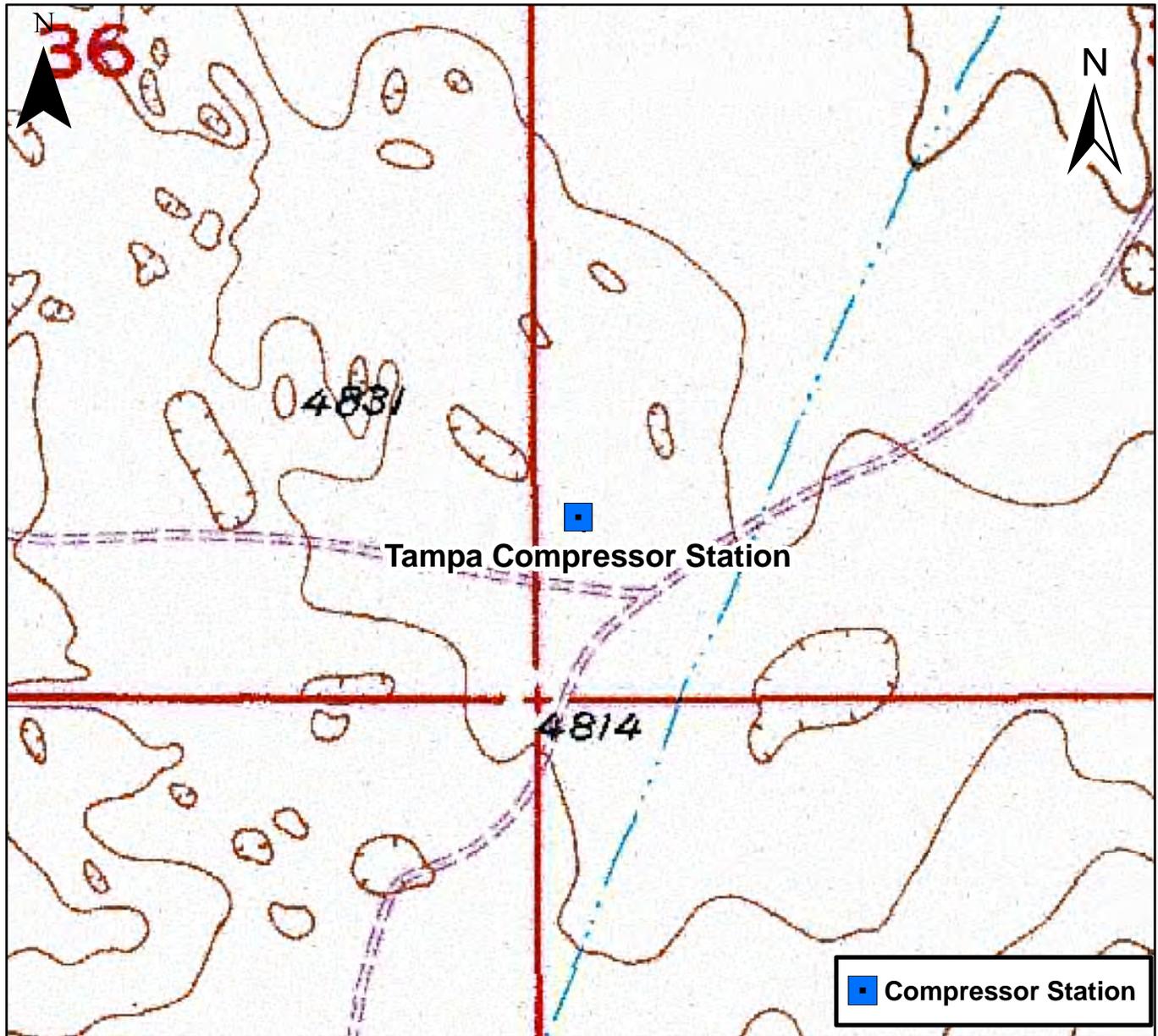
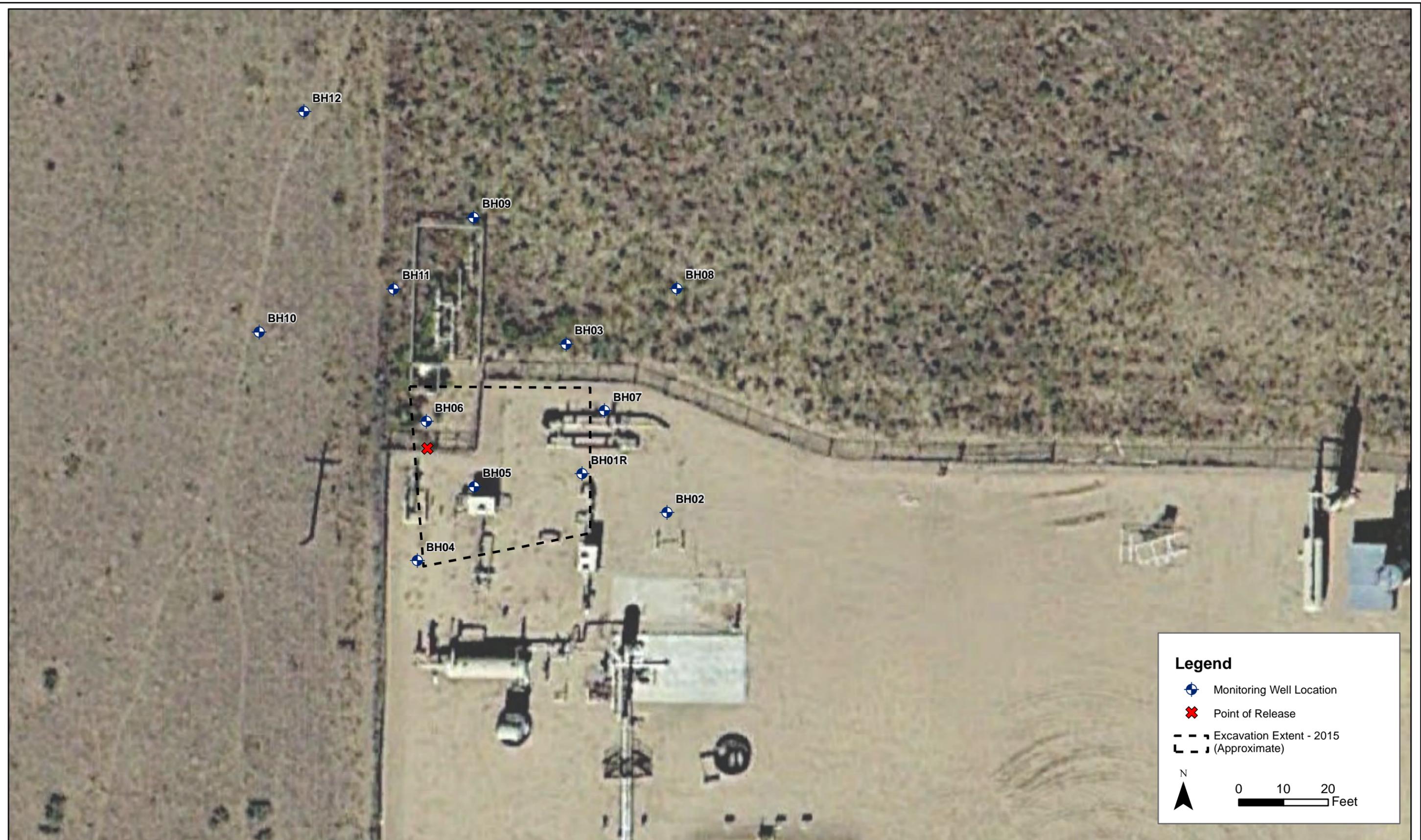


Figure 1

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





DATE: May 2017
 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



Legend

- Monitoring Well Location
- Excavation Extent - 2015 (Approximate)
- Groundwater Elevation Contour (Dashed where inferred)
- Approximate Groundwater Flow Direction

4795.25 Measured Groundwater Elevation (ft AMSL)

Notes:

ft AMSL - Feet Above Mean Sea Level

* The groundwater elevation value was corrected due to the presence of LNAPL as follows: (Measured Groundwater Elevation) + (LNAPL thickness * LNAPL Relative Density of 0.75)

N

0 10 20 Feet

DATE:	July 2017
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold

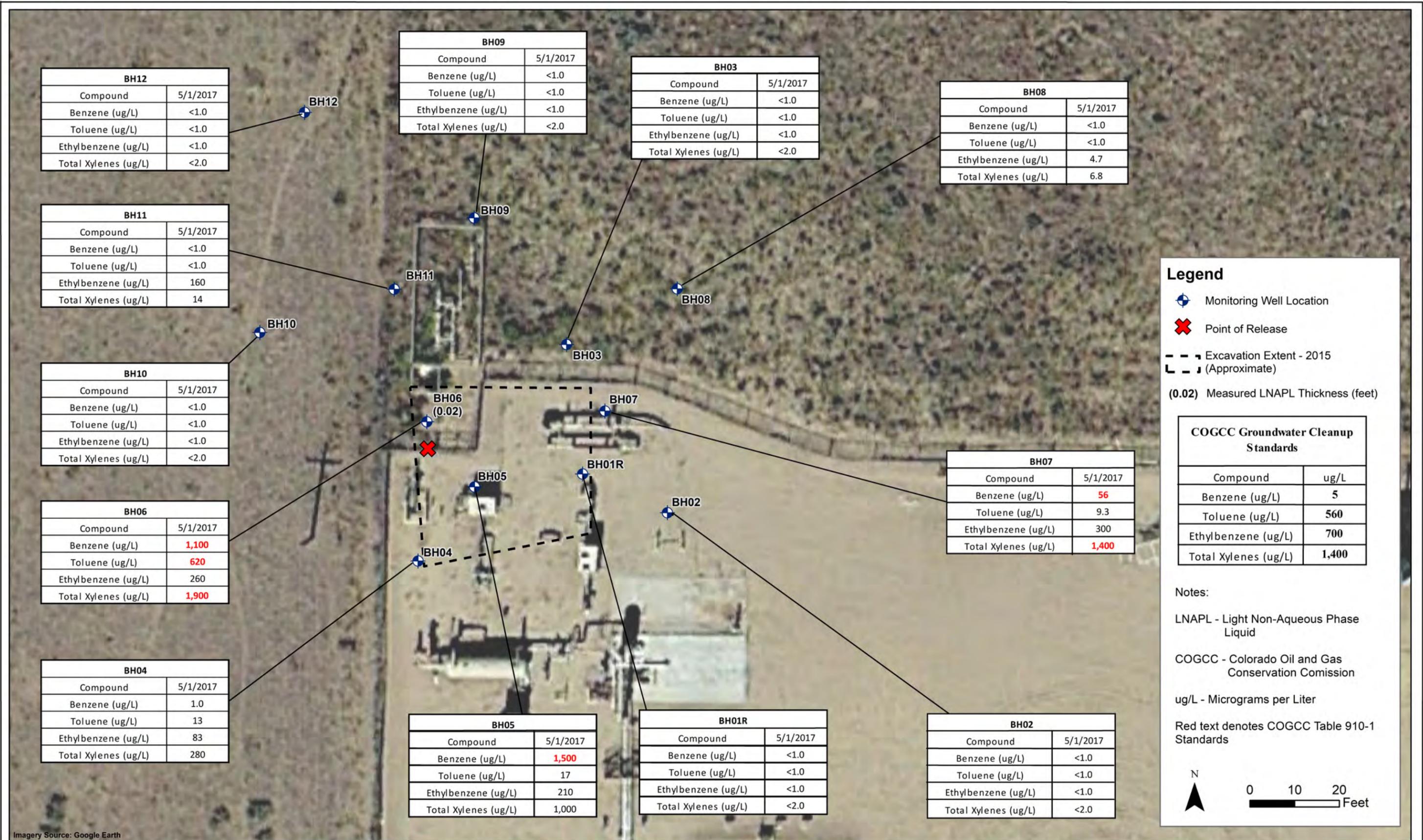


Tasman Geosciences Inc.
6899 Pecos Street - Unit C
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**DCP Midstream
Tampa Compressor Station**
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Groundwater Elevation
Contour Map
(May 1, 2017)

**Figure
3**



DATE: May 2017
 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
 (May 1, 2017)

Figure
 4

Appendix A

Historic Groundwater Analytical Results

**APPENDIX A
HISTORIC 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	
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	
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	
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	
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	
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
BH07	11/12/2015	1,600	1,000	290	1,000	
BH07	2/23/2016	130	70	170	110	

**APPENDIX A
HISTORIC 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	
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	
<hr/>						
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	
<hr/>						
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	
<hr/>						
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	
<hr/>						
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	
<hr/>						
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	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

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

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

Appendix B

Laboratory Analytical Report
Summit Scientific – 1705013

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 05, 2017

Steve Weathers
DCP Operating Company
370 17th Street #2500
Denver, CO 80202
RE: Tampa Compressor Station

Enclosed are the results of analyses for samples received by Summit Scientific on 05/01/17 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', written in a cursive style.

Paul Shrewsbury
President



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
05/05/17 10:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R	1705013-01	Water	05/01/17 11:45	05/01/17 16:30
BH02	1705013-02	Water	05/01/17 11:17	05/01/17 16:30
BH03	1705013-03	Water	05/01/17 12:15	05/01/17 16:30
BH04	1705013-04	Water	05/01/17 12:18	05/01/17 16:30
BH05	1705013-05	Water	05/01/17 12:07	05/01/17 16:30
BH06	1705013-06	Water	05/01/17 12:35	05/01/17 16:30
BH07	1705013-07	Water	05/01/17 11:56	05/01/17 16:30
BH08	1705013-08	Water	05/01/17 12:25	05/01/17 16:30
BH09	1705013-09	Water	05/01/17 12:00	05/01/17 16:30
BH10	1705013-10	Water	05/01/17 11:40	05/01/17 16:30
BH11	1705013-11	Water	05/01/17 11:55	05/01/17 16:30
BH12	1705013-12	Water	05/01/17 11:15	05/01/17 16:30

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 Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
05/05/17 10:32

Summit Scientific

1705013.1

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

Page 1 of 2

Client: DCP/Tasman

Address:

City/State/Zip:

Phone: 979-255-4235

Fax:

Sampler Name: Max Garza, Mitch Weiler

Project Manager: Steve Weathers

E-Mail: slweathers@dcopmidstream.com; bhumphreys@tasman-geo.com

Project Name: Tampa Compressor Station

Project Number: N/A

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)	YES		NO
BH01R	5/11/17	1145	3			X		X						
BH02		1117												
BH03		1215												
BH04		1218												
BH05		1207												
BH06		1235												
BH07		1156												
BH08		1225												
BH09		1200												
BH10		1140												
Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/11/17 1630</u>	Received by: <u>[Signature]</u>		Date/Time: <u>5/11/17 1630</u>	Turn Around Time (Check)		Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>				Notes: <u>on ice</u>		
Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/11/17 1700</u>	Received by:		Date/Time:	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>3.8°C</u>						
						Intact: (Yes) <input checked="" type="checkbox"/> No <input type="checkbox"/>								

www.s2scientific.com



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
05/05/17 10:32

Sample Receipt Checklist

S2 Work Order: 1705a13

Client: DCP Client Project ID: Tampa Compressor Station

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

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

Cooler ID					
Temp (°C)	3.8				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	✓			g u, u
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?				
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?				
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			✓	
Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

5/4/17 1700
Date/Time

[Signature]



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH01R
1705013-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH02
1705013-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH03
1705013-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>104 %</i>	<i>37-154</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>91.8 %</i>	<i>45-149</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>	<i>45-146</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</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 Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH04
1705013-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.0	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	13	1.0	"	"	"	"	"	"	
Ethylbenzene	83	10	"	10	"	"	"	"	
Xylenes (total)	280	20	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.3 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.5 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH05
1705013-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1500	10	ug/l	10	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	17	10	"	"	"	"	"	"	
Ethylbenzene	210	10	"	"	"	"	"	"	
Xylenes (total)	1000	20	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.1 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.5 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH06
1705013-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1100	100	ug/l	100	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	620	100	"	"	"	"	"	"	
Ethylbenzene	260	100	"	"	"	"	"	"	
Xylenes (total)	1900	200	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.4 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.3 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH07
1705013-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	56	10	ug/l	10	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	9.3	1.0	"	1	"	"	"	"	
Ethylbenzene	300	10	"	10	"	"	"	"	
Xylenes (total)	1400	20	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:56**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		94.5 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.6 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH08
1705013-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	4.7	1.0	"	"	"	"	"	"	
Xylenes (total)	6.8	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.2 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH09
1705013-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		93.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH10
1705013-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH11
1705013-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	160	1.0	"	"	"	"	"	"	
Xylenes (total)	14	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.1 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.2 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

BH12
1705013-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/01/17 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705017	05/03/17	05/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/01/17 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	45-146		"	"	"	"	

Summit Scientific

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



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
05/05/17 10:32

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 1705017 - EPA 5030 Water MS

Blank (1705017-BLK1)

Prepared & Analyzed: 05/03/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.4	37-154			
Surrogate: Toluene-d8	12.4		"	13.3		93.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	45-146			

LCS (1705017-BS1)

Prepared & Analyzed: 05/03/17

Benzene	35.7	1.0	ug/l	33.3		107	51-132			
Toluene	36.8	1.0	"	33.3		110	51-138			
Ethylbenzene	39.9	1.0	"	33.1		121	58-146			
m,p-Xylene	73.9	2.0	"	66.5		111	57-144			
o-Xylene	38.1	1.0	"	32.7		117	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.3		103	37-154			
Surrogate: Toluene-d8	12.6		"	13.3		94.9	45-149			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	45-146			

Matrix Spike (1705017-MS1)

Source: 1705013-01

Prepared & Analyzed: 05/03/17

Benzene	35.6	1.0	ug/l	33.3	ND	107	34-141			
Toluene	36.5	1.0	"	33.3	ND	109	27-151			
Ethylbenzene	40.6	1.0	"	33.1	ND	123	29-160			
m,p-Xylene	74.9	2.0	"	66.5	ND	113	20-166			
o-Xylene	38.6	1.0	"	32.7	ND	118	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	37-154			
Surrogate: Toluene-d8	12.3		"	13.3		92.4	45-149			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	45-146			

Summit Scientific

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



DCP Operating Company
 370 17th Street #2500
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
 Project Manager: Steve Weathers

Reported:
 05/05/17 10:32

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 1705017 - EPA 5030 Water MS

Matrix Spike Dup (1705017-MSD1)	Source: 1705013-01			Prepared & Analyzed: 05/03/17						
Benzene	36.1	1.0	ug/l	33.3	ND	108	34-141	1.48	32	
Toluene	37.3	1.0	"	33.3	ND	112	27-151	2.30	25	
Ethylbenzene	41.6	1.0	"	33.1	ND	126	29-160	2.31	50	
m,p-Xylene	76.6	2.0	"	66.5	ND	115	20-166	2.26	36	
o-Xylene	39.3	1.0	"	32.7	ND	120	33-159	1.72	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>37-154</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>93.0</i>	<i>45-149</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>		<i>97.0</i>	<i>45-146</i>			

Summit Scientific

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Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
05/05/17 10:32

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