

# First Quarter 2017 Groundwater Monitoring Summary Report

## Tampa Compressor Station Release Weld County, Colorado Remediation #9353

Prepared for:



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**May 11, 2017**

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## 1. Introduction

This report summarizes the groundwater monitoring activities conducted during the first 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 February 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 (yd<sup>3</sup>) 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 yd<sup>3</sup> 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 first quarter 2017 groundwater monitoring event. Quarterly monitoring activities were conducted on February 1, 2017, and included Site-wide groundwater gauging and sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

#### 3.1 Groundwater Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the first quarter 2017, 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 levels and the calculated groundwater elevations are presented in Table 1.

A first quarter 2017 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the northeast. 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**

|   | <b>First Quarter 2017 (2/1/2017)</b> |
|---|--------------------------------------|
| Maximum Elevation (Well ID)                               | 4,795.61 (BH04)                      |
| Minimum Elevation (Well ID)                               | 4,795.03 (BH08)                      |
| Average Change from Previous Monitoring Event – All Wells | -0.08 feet                           |
| Average Hydraulic Gradient (ft/ft) / (Well IDs)           | 0.0069 (BH04 to BH08)                |

#### 3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from 12 monitor wells using disposable polyethylene bailers. Measurable LNAPL was observed within BH06 and LNAPL was purged along with 2.31 gallons of water and a groundwater sample was subsequently collected from the well.

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 first quarter 2017 event are included in Appendix A and the laboratory analytical report for the first quarter 2017 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene concentrations in groundwater samples from wells BH05 (2,300 micrograms per liter [ $\mu\text{g/L}$ ]), BH06 (2,000  $\mu\text{g/L}$ ), and BH07 (240  $\mu\text{g/L}$ ) were in exceedance of the COGCC Table 910-1 standard of 5  $\mu\text{g/L}$ .
- The toluene concentration in the groundwater sample from well BH06 (800  $\mu\text{g/L}$ ) 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  $\mu\text{g/L}$  and any of the sampled monitor well locations.
- Total xylenes concentrations in groundwater samples from wells BH05 (1,800  $\mu\text{g/L}$ ), BH06 (2,100  $\mu\text{g/L}$ ), and BH07 (2,000  $\mu\text{g/L}$ ) 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 below laboratory detection limits.
- LNAPL was observed in monitor well BH06 with a measurable thickness of 0.05 feet.

#### **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. During first quarter 2017, six (6) mobile EFR events were conducted at the Site. For each event the EFR was applied simultaneously at monitoring wells BH03, BH04, BH06, and BH11 for a minimum 6-hour period during each event. A total of approximately 170 barrels (bbls) of groundwater was removed during the first quarter 2017 EFR remediation events. A project total of approximately 1,088 barrels of liquid has been removed through EFR remediation activities. 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.

## 5. Conclusions

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

- LNAPL was observed in BH06 during the first quarter 2017 with a measured thickness of 0.05 feet. The LNAPL was subsequently purged from the well and three well purge volumes were removed prior to collecting a laboratory analytical sample.
- Benzene concentrations that exceed the COGCC applicable groundwater standard was detected in three (3) of the 12 sampled monitoring wells.
- BTEX concentrations decreased throughout the Site when compared to the fourth quarter 2016 event with the exception of monitor well BH08 which increased from <1.0 µg/L to 4.6 µg/L. However, benzene concentrations decreased significantly at monitor wells BH05, BH06, BH07, and, of particular note, is the absence of LNAPL at monitor well BH04 as well as the decrease in dissolved phase benzene concentrations to below COGCC Table 910-1 standards at BH04 and BH11.

## 6. Recommendations

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

- Continue quarterly groundwater monitoring and sampling activities at the well locations illustrated on Figure 2.
- Discontinue mobile EFR remediation activities at the Site during the second quarter 2017 to observe potential LNAPL recovery and/or dissolved phase BTEX concentration increases at the Site.

## Tables

**TABLE 1**  
**FIRST QUARTER 2017 MONITORING EVENT**  
**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    | 5/27/2016 | 10.25                       |                         |   | NM                 | 4,805.57                  | 4,795.32                              | 0.25  |
| 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   |
| BH02     | 5/27/2016 | 12.41                       |                         |   | NM                 | 4,807.70                  | 4,795.29                              | 1.14  |
| 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   |
| BH03     | 5/27/2016 | 9.16                        | 9.15                    | 0.01                                    | NM                 | 4,804.31                  | 4,795.15                              | 1.10  |
| 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  |
| BH04     | 5/27/2016 | 11.40                       | 11.39                   | 0.01                                    | NM                 | 4,806.95                  | 4,795.55                              | 1.21  |
| 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   |
| BH05     | 5/27/2016 | 11.90                       |                         |   | NM                 | 4,806.51                  | 4,794.61                              | 0.31  |
| 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   |
| BH06     | 5/27/2016 | 11.17                       | 11.08                   | 0.09                                    | NM                 | 4,806.46                  | 4,795.35                              | 1.16  |
| 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   |
| BH07     | 5/27/2016 | 10.81                       |                         |   | NM                 | 4,806.01                  | 4,795.20                              | 1.15  |
| 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   |
| BH08     | 5/27/2016 | 8.80                        |                         |   | NM                 | 4,803.78                  | 4,794.98                              | 1.15  |
| 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   |
| BH09     | 5/27/2016 | 9.05                        |                         |   | NM                 | 4,804.08                  | 4,795.03                              | 1.15  |
| 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   |
| BH10     | 5/27/2016 | 10.05                       |                         |   | NM                 | 4,805.37                  | 4,795.32                              | 1.17  |
| 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   |

**TABLE 1**  
**FIRST QUARTER 2017 MONITORING EVENT**  
**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  | 5/27/2016 | 9.81                        |                         |   | NM                 | 4,804.97                  | 4,795.16                              | 1.26  |
| 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   |
| BH12  | 5/27/2016 | 10.10                       |                         |   | NM                 | 4,805.13                  | 4,795.03                              | 1.18  |
| 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   |
| Average change in groundwater elevation (11/9/16 to 2/1/17) |           |                             |                         |   |                    |                           |                                       | -0.08   |

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**  
**FIRST QUARTER 2017 MONITORING EVENT**  
**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 |
|---|-------------|----------------|----------------|---------------------|----------------------|----------|
| <b>COGCC Standards (µg/L)<sup>(1)</sup></b> |             | <b>5</b>       | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |          |
| BH01R                                       | 2/1/2017    | <1.0           | <1.0           | <1.0                | <1.0                 |          |
| BH02  | 2/1/2017    | <1.0           | <1.0           | 1.9                 | <1.0                 |          |
| BH03  | 2/1/2017    | <1.0           | <1.0           | <1.0                | <1.0                 |          |
| BH04  | 2/1/2017    | 3.9            | 46             | 220                 | 560                  |          |
| BH05  | 2/1/2017    | <b>2,300</b>   | 95             | 450                 | <b>1,800</b>         |          |
| BH06  | 2/1/2017    | <b>2,000</b>   | <b>800</b>     | 510                 | <b>2,100</b>         | LNAPL    |
| BH07  | 2/1/2017    | <b>240</b>     | 30             | 410                 | <b>2,000</b>         |          |
| BH08  | 2/1/2017    | 4.6            | <1.0           | 11                  | 32                   |          |
| BH09  | 2/1/2017    | <1.0           | <1.0           | <1.0                | <1.0                 |          |
| BH10  | 2/1/2017    | <1.0           | <1.0           | <1.0                | <1.0                 |          |
| BH11  | 2/1/2017    | 2.0            | <1.0           | 290                 | 330                  |          |
| BH12  | 2/1/2017    | <1.0           | <1.0           | <1.0                | <1.0                 |          |

Notes:

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

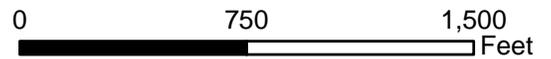
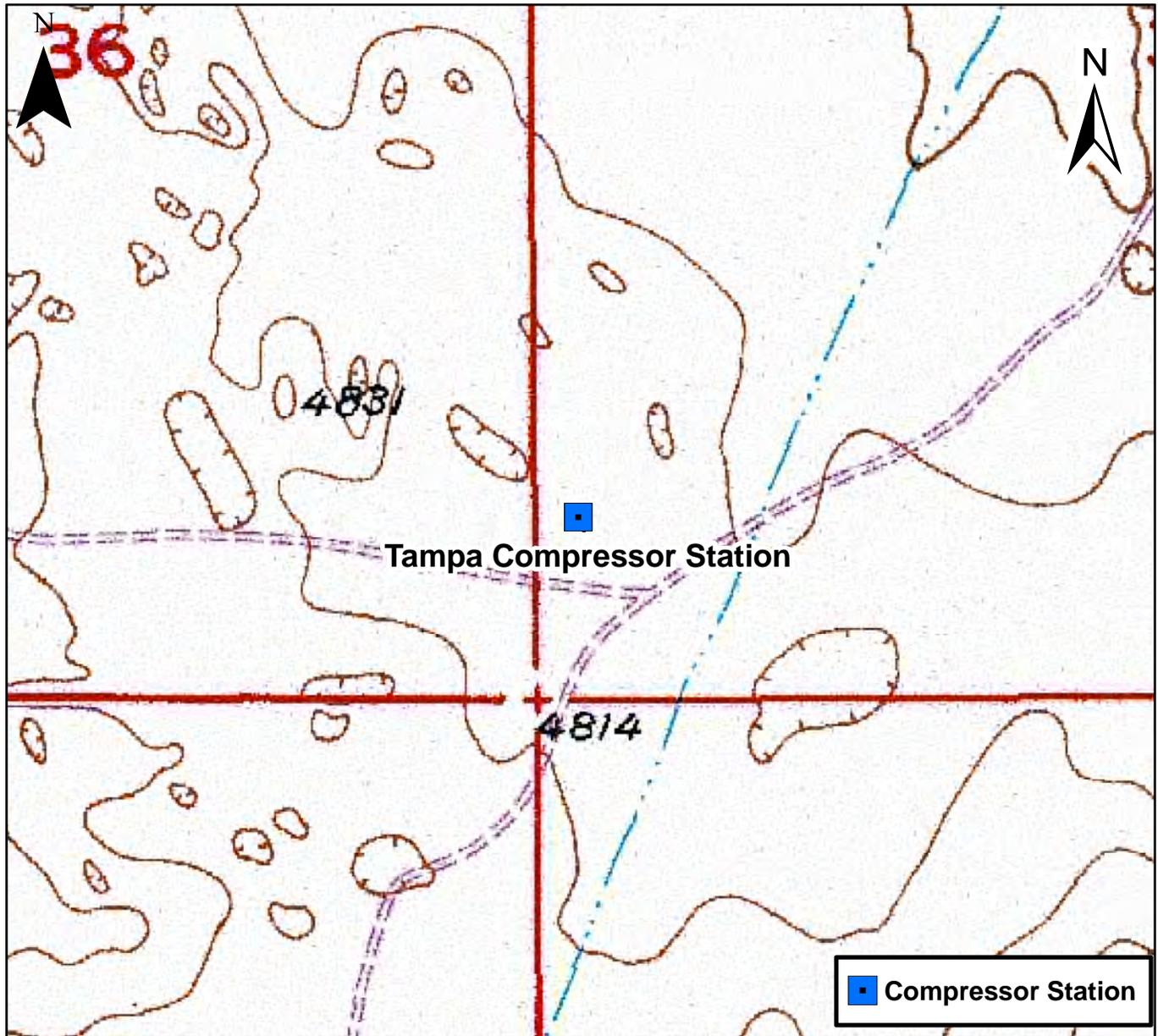
**Bold** red values indicate an exceedance of the COGCC groundwater standards for the Site.

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

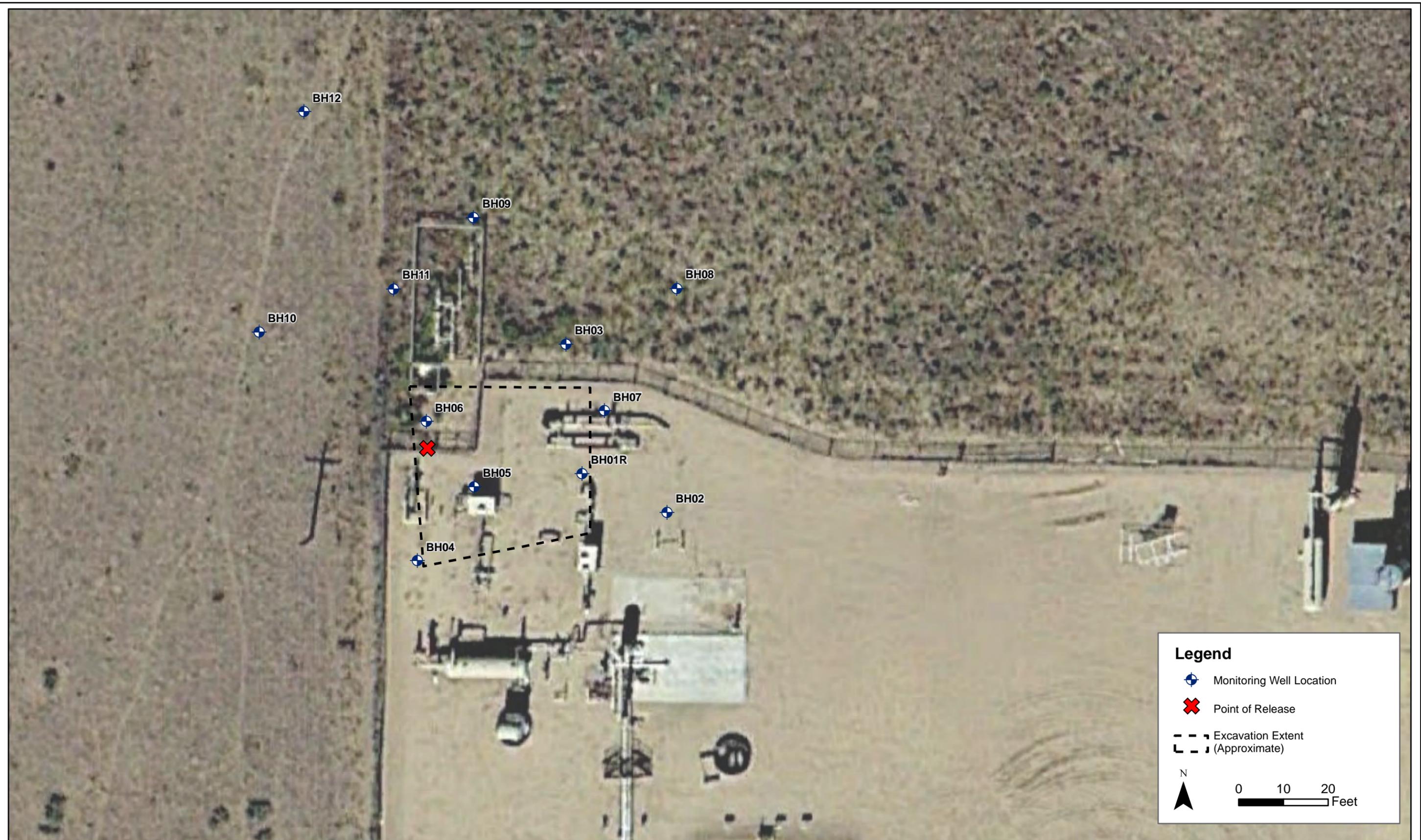
## Figures



### Figure 1

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





DATE:  
December 2016

DESIGNED BY:  
B. Humphrey

DRAWN BY:  
D. Arnold

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

Site Map with  
Monitoring Well Location

Figure  
2



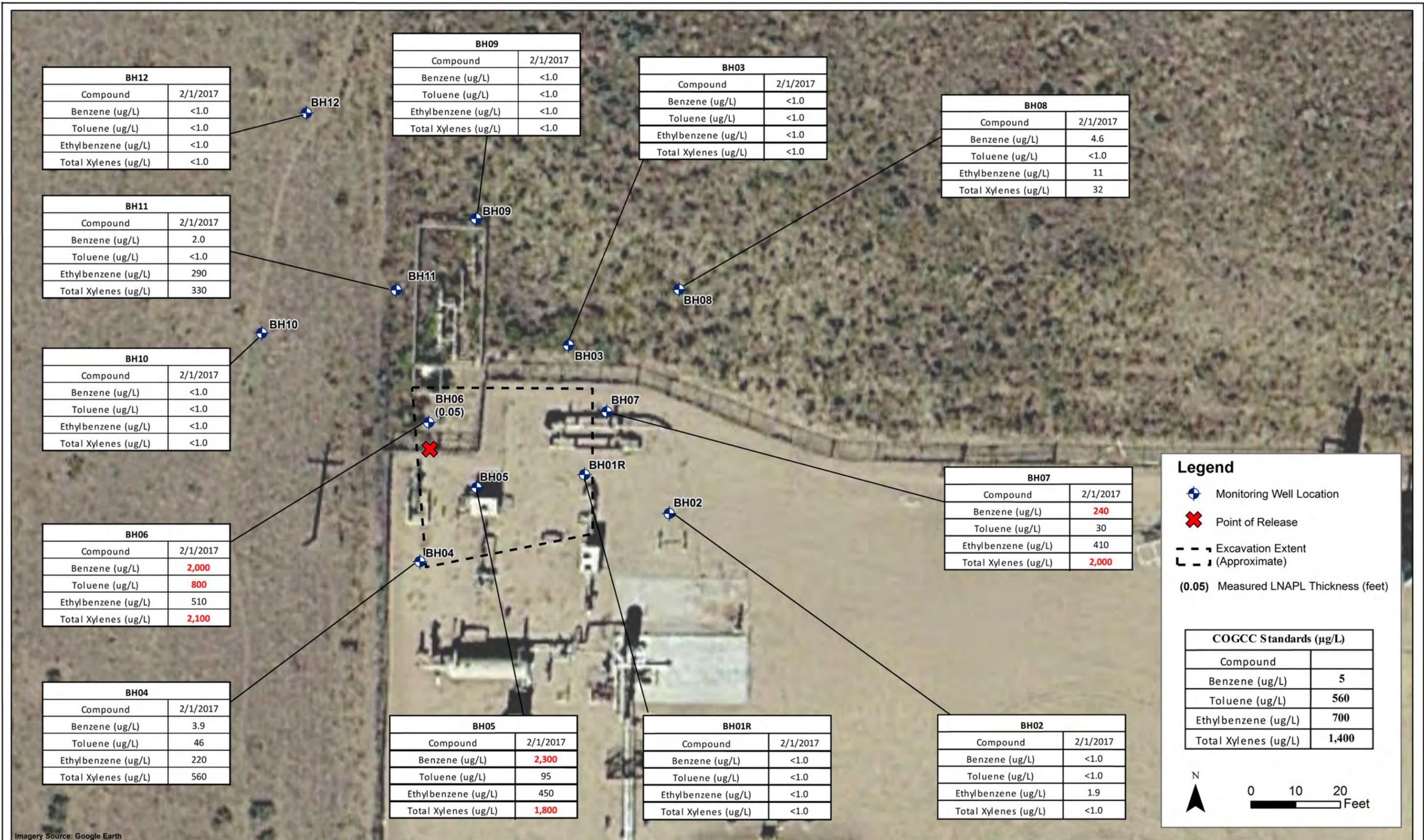
DATE: February 2017  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: D. Arnold

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

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

Groundwater Elevation  
 Contour Map  
 (February 1, 2017)

Figure  
 3



DATE: February 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  
 (February 1, 2017)

Figure  
 4

Appendix A  
Historic Analytical Results

**APPENDIX A  
HISTORIC 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 |
|-------------------------------|-------------|----------------|----------------|---------------------|----------------------|----------|
| <b>COGCC Standards (µg/L)</b> |             | <b>5</b>       | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |          |
| BH01                          | 2/19/2015   | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH01R                         | 11/12/2015  | <b>82</b>      | <1.0           | 7.5                 | 3.8                  |          |
| BH01R                         | 2/23/2016   | <b>35</b>      | <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                 |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| 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                 |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| 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   | <b>53</b>      | 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                 |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| BH04                          | 11/12/2015  | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH04                          | 2/23/2016   | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH04                          | 5/27/2016   | <b>120</b>     | 490            | 560                 | <b>2,600</b>         |          |
| BH04                          | 8/17/2016   | <b>28</b>      | 73             | 140                 | 840                  | LNAPL    |
| BH04                          | 11/9/2016   | <b>120</b>     | <b>590</b>     | <b>1,800</b>        | <b>5,500</b>         | LNAPL    |
| BH04                          | 2/1/2017    | 3.9            | 46             | 220                 | 560                  |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| BH05                          | 11/12/2015  | <b>6,700</b>   | <b>590</b>     | 610                 | <b>2,300</b>         |          |
| BH05                          | 2/23/2016   | <b>2,900</b>   | 180            | 540                 | <b>1,500</b>         |          |
| BH05                          | 5/27/2016   | <b>2,300</b>   | 130            | 610                 | <b>2,900</b>         |          |
| BH05                          | 8/17/2016   | <b>1,800</b>   | 30             | 100                 | 1,100                |          |
| BH05                          | 11/9/2016   | <b>19,000</b>  | <b>2,000</b>   | <b>3,500</b>        | <b>15,000</b>        |          |
| BH05                          | 2/1/2017    | <b>2,300</b>   | 95             | 450                 | <b>1,800</b>         |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| BH06                          | 11/12/2015  | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH06                          | 2/23/2016   | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH06                          | 5/27/2016   | <b>6,500</b>   | <b>6,200</b>   | <b>2,500</b>        | <b>14,000</b>        |          |
| BH06                          | 8/17/2016   | <b>5,400</b>   | <b>3,100</b>   | <b>1,400</b>        | <b>7,600</b>         |          |
| BH06                          | 11/9/2016   | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH06                          | 2/1/2017    | <b>2,000</b>   | <b>800</b>     | 510                 | <b>2,100</b>         | LNAPL    |
| <b> </b>                      |             |                |                |                     |                      |          |
| BH07                          | 11/12/2015  | <b>1,600</b>   | <b>1,000</b>   | 290                 | 1,000                |          |
| BH07                          | 2/23/2016   | <b>130</b>     | 70             | 170                 | 110                  |          |
| BH07                          | 5/27/2016   | <b>3,100</b>   | <b>1,500</b>   | 500                 | <b>2,700</b>         |          |
| BH07                          | 8/17/2016   | <b>2,500</b>   | 170            | 550                 | <b>2,600</b>         |          |
| BH07                          | 11/9/2016   | <b>790</b>     | 71             | 510                 | <b>2,400</b>         |          |
| BH07                          | 2/1/2017    | <b>240</b>     | 30             | 410                 | <b>2,000</b>         |          |
| <b> </b>                      |             |                |                |                     |                      |          |
| BH08                          | 11/12/2015  | <b>160</b>     | 16             | 11                  | 40                   |          |

**APPENDIX A  
HISTORIC 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 |
|-------------------------------|-------------|----------------|----------------|---------------------|----------------------|----------|
| <b>COGCC Standards (µg/L)</b> |             | <b>5</b>       | <b>560</b>     | <b>700</b>          | <b>1,400</b>         |          |
| BH08                          | 2/23/2016   | <b>150</b>     | 37             | 15                  | 74                   |          |
| BH08                          | 5/27/2016   | <b>60</b>      | 10             | 19                  | 110                  |          |
| BH08                          | 8/17/2016   | <b>5.1</b>     | 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                   |          |
| <hr/>                         |             |                |                |                     |                      |          |
| BH09                          | 11/12/2015  | <b>610</b>     | 46             | 18                  | 80                   |          |
| BH09                          | 2/23/2016   | <b>23</b>      | <1.0           | <1.0                | <1.0                 |          |
| BH09                          | 5/27/2016   | <b>8.0</b>     | <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                 |          |
| <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                 |          |
| <hr/>                         |             |                |                |                     |                      |          |
| BH11                          | 11/12/2015  | <b>2,100</b>   | <b>1,800</b>   | 200                 | 840                  |          |
| BH11                          | 2/23/2016   | NS             | NS             | NS                  | NS                   | LNAPL    |
| BH11                          | 5/27/2016   | <b>2,100</b>   | 180            | 600                 | <b>1,900</b>         |          |
| BH11                          | 8/17/2016   | <b>1,100</b>   | 3.5            | 34                  | 770                  |          |
| BH11                          | 11/9/2016   | <b>27</b>      | <1.0           | 100                 | 260                  |          |
| BH11                          | 2/1/2017    | 2.0            | <1.0           | 290                 | 330                  |          |
| <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                 |          |

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 – 1702010

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 06, 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 02/01/17 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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:**  
02/06/17 15:53

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| BH01R     | 1702010-01    | Water  | 02/01/17 13:15 | 02/01/17 16:55 |
| BH02      | 1702010-02    | Water  | 02/01/17 12:38 | 02/01/17 16:55 |
| BH03      | 1702010-03    | Water  | 02/01/17 13:30 | 02/01/17 16:55 |
| BH04      | 1702010-04    | Water  | 02/01/17 14:15 | 02/01/17 16:55 |
| BH05      | 1702010-05    | Water  | 02/01/17 14:08 | 02/01/17 16:55 |
| BH06      | 1702010-06    | Water  | 02/01/17 14:20 | 02/01/17 16:55 |
| BH07      | 1702010-07    | Water  | 02/01/17 14:05 | 02/01/17 16:55 |
| BH08      | 1702010-08    | Water  | 02/01/17 13:30 | 02/01/17 16:55 |
| BH09      | 1702010-09    | Water  | 02/01/17 13:20 | 02/01/17 16:55 |
| BH10      | 1702010-10    | Water  | 02/01/17 13:50 | 02/01/17 16:55 |
| BH11      | 1702010-11    | Water  | 02/01/17 13:55 | 02/01/17 16:55 |
| BH12      | 1702010-12    | Water  | 02/01/17 13:40 | 02/01/17 16:55 |

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

Project: Tampa Compressor Station

Project Number: [none]  
Project Manager: Steve Weathers

Reported:  
02/06/17 15:53

# Summit Scientific

1702010.1

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

Page 1 of 2

Client: DCP / Tasman Geosciences  
Address: 16399 Pease St, Unit C  
City/State/Zip: Denver, CO 80221  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Sampler Name: Mitch Wiles, Alec Chapin

Project Manager: Steve Weathers  
E-Mail: swweathers@dcpmidstream.com; blumphyre@tasman-geo.com  
Project Name: Tampa Compressor Station  
Project Number: \_\_\_\_\_

| Sample Description                     | Date Sampled | Time Sampled             | Number of Containers            | Preservative |                                |   |                 | Matrix      |  | Analyze For:            |                 |     |      | Special Instructions |  |
|--|--------------|--------------------------|---------------------------------|--------------|--------------------------------|---|-----------------|-------------|--|-------------------------|-----------------|-----|------|----------------------|--|
|  |              |                          |                                 | HCl          | HNO <sub>3</sub>               | None  | Other (Specify) | Groundwater | Soil   | Air - Canister Serial # | Other (Specify) | TEX | RZ60 |                      |  |
| BH01R                                  | 2-1-17       | 1315                     | 03                              | X            |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH02                                   |              | 1235                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH03                                   |              | 1330                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH04                                   |              | 1415                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH05                                   |              | 1408                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH06                                   |              | 1420                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH07                                   |              | 1405                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH08                                   |              | 1330                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH09                                   |              | 1320                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| BH10                                   |              | 1350                     |                                 |              |                                |   |                 |             |  |                         |                 |     |      |                      |  |
| Relinquished by: <u>Mitchell Wiles</u> |              | Date/Time: <u>2-1-17</u> | Received by: <u>[Signature]</u> |              | Date/Time: <u>2-1-17 16:55</u> | Turn Around Time (Check)  |                 |             | Notes:                                       |                         |                 |     |      |                      |  |
|  |              | Date/Time:               |                                 |              | Date/Time:                     | Same Day <input type="checkbox"/>   |                 |             | 72 Hours <input type="checkbox"/>            |                         |                 |     |      |                      |  |
|  |              | Date/Time:               |                                 |              | Date/Time:                     | 24 Hours <input type="checkbox"/>   |                 |             | Standard <input checked="" type="checkbox"/> |                         |                 |     |      |                      |  |
|  |              | Date/Time:               |                                 |              | Date/Time:                     | 48 Hours <input type="checkbox"/>   |                 |             |  |                         |                 |     |      |                      |  |
| Relinquished by:                       |              | Date/Time:               | Received in Lab by:             |              | Date/Time:                     | Sample Integrity:   |                 |             | Temperature Upon Receipt: <u>2.7°C</u>       |                         |                 |     |      |                      |  |
|  |              | Date/Time:               |                                 |              | Date/Time:                     | Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                 |             | <u>on ice</u>                                |                         |                 |     |      |                      |  |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

Reported:  
 02/06/17 15:53

# Summit Scientific

1702010.2

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

Page 2 of 2

Client: DCP / Tasmco Geosciences  
 Address: 6899 Pecos St, Unit C  
 City/State/Zip: Denver, CO 80221  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Sampler Name: Mitch Weller, Alex Chapin

Project Manager: Steve Weathers  
 E-Mail: stweathers@dcpmidstream.com ; khw@tasmco.com  
 Project Name: Tampa Compressor Station  
 Project Number: \_\_\_\_\_

| Sample Description                   | Date Sampled | Time Sampled             | Number of Containers          | Preservative |                                |   |                             |             | Matrix  |                                     | Analyze For:    |       |       |  | Special Instructions |  |  |
|--------------------------------------|--------------|--------------------------|-------------------------------|--------------|--------------------------------|---|-----------------------------|-------------|---|-------------------------------------|-----------------|-------|-------|--|----------------------|--|--|
|                                      |              |                          |                               | HCl          | HNO <sub>3</sub>               | None  | Other (Specify)             | Groundwater | Soil  | Air - Canister Serial #             | Other (Specify) | ESTEX | STC60 |  |                      |  |  |
| BH 11                                | 2-1-17       | 1355                     | 3                             | X            |                                |   |                             | X           |   |                                     |                 | X     |       |  |                      |  |  |
| BH 12                                | ↓            | 1340                     | ↓                             | ↓            |                                |   |                             | ↓           |   |                                     |                 | ↓     |       |  |                      |  |  |
|                                      |              |                          |                               |              |                                |   |                             |             |   |                                     |                 |       |       |  |                      |  |  |
| Relinquished by: <u>Mitch Weller</u> |              | Date/Time: <u>2-1-17</u> | Received by: <u>E. Chapin</u> |              | Date/Time: <u>2-1-17 16:18</u> | Turn Around Time (Check)                        |                             |             | Notes:  |                                     |                 |       |       |  |                      |  |  |
|                                      |              | Date/Time:               |                               |              | Date/Time:                     | Same Day  | 72 Hours                    | 24 Hours    | Standard  | <input checked="" type="checkbox"/> |                 |       |       |  |                      |  |  |
|                                      |              | Date/Time:               |                               |              | Date/Time:                     | 48 Hours  |                             |             |   |                                     |                 |       |       |  |                      |  |  |
| Relinquished by:                     |              | Date/Time:               | Received in Lab by:           |              | Date/Time:                     | Sample Integrity:                               |                             |             | Temperature Upon Receipt: <u>27°C</u> <u>on ice</u> |                                     |                 |       |       |  |                      |  |  |
|                                      |              | Date/Time:               |                               |              | Date/Time:                     | Intact: Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |             |   |                                     |                 |       |       |  |                      |  |  |

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S2

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

Project: Tampa Compressor Station

Project Number: [none]  
Project Manager: Steve Weathers

Reported:  
02/06/17 15:53

Sample Receipt Checklist

S2 Work Order: 1700010  
Client: DCP/Tasman Client Project ID: Tampa Comp 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) | <u>2.7°C</u> |  |  |  |

Thermometer ID: 61857155-K

|   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     | <u>on ice</u>     |
| NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun. |                                     |                                     |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present?  |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | <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) <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     | <u>HCL</u>        |
| 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 <sup>(1)</sup> ?  |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Record the pH in Comments.  |                                     |                                     |                                     |                   |
| If dissolved metals are requested, were samples field filtered?   |                                     |                                     | <input checked="" type="checkbox"/> |                   |
| Additional Comments (if any):   |                                     |                                     |                                     |                   |

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

Eric Harvath  
Custodian Printed Name

[Signature]  
Signature or Initials of Custodian

2-1-17 16:55  
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:**  
 02/06/17 15:53

**BH01R**  
**1702010-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:15**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 1.0             | ug/l  | 1        | 1702020 | 02/02/17 | 02/02/17 | EPA 8260B |       |
| Toluene         | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:15**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 98.6 %          | 37-154 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 102 %           | 45-149 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 98.3 %          | 45-146 |          | "     | "        | "        | "      |       |

Summit Scientific

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



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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH02**  
**1702010-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 12:38**

| Analyte             | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene             | ND         | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene             | ND         | 1.0             | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b> | <b>1.9</b> | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)     | ND         | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 12:38**

| 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>            |        | 103 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 107 %           | 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:**  
 02/06/17 15:53

**BH03**  
**1702010-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:30**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 1.0             | ug/l  | 1        | 1702020 | 02/02/17 | 02/02/17 | EPA 8260B |       |
| Toluene         | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:30**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 105 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 101 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 103 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH04**  
**1702010-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 14:15**

| Analyte                | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>3.9</b> | 1.0             | ug/l  | 1        | 1702020 | 02/02/17 | 02/02/17 | EPA 8260B |       |
| <b>Toluene</b>         | <b>46</b>  | 10              | "     | 10       | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>220</b> | 10              | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>560</b> | 10              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 14:15**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 100 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 100 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 104 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH05**  
**1702010-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 14:08**

| Analyte                | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>2300</b> | 10              | ug/l  | 10       | 1702020 | 02/02/17 | 02/02/17 | EPA 8260B |       |
| <b>Toluene</b>         | <b>95</b>   | 10              | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>450</b>  | 10              | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>1800</b> | 10              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 14:08**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 98.8 %          | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 98.9 %          | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 103 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH06**  
**1702010-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 14:20**

| Analyte                | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>2000</b> | 100             | ug/l  | 100      | 1702020 | 02/02/17 | 02/02/17 | EPA 8260B |       |
| <b>Toluene</b>         | <b>800</b>  | 100             | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>510</b>  | 100             | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>2100</b> | 100             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 14:20**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 100 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 104 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 104 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH07**  
**1702010-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 14:05**

| Analyte                | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>240</b>  | 10              | ug/l  | 10       | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| <b>Toluene</b>         | <b>30</b>   | 10              | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>410</b>  | 10              | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>2000</b> | 10              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 14:05**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 103 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 100 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 102 %           | 45-146 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH08**  
**1702010-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:30**

| Analyte                | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>4.6</b> | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene                | ND         | 1.0             | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>11</b>  | 1.0             | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>32</b>  | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:30**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 102 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 100 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 104 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH09**  
**1702010-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:20**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene         | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:20**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 104 %           | 37-154 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 103 %           | 45-149 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 98.0 %          | 45-146 |          | "     | "        | "        | "      |       |

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 370 17th Street #2500  
 Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH10**  
**1702010-10 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:50**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene         | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:50**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 101 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 99.8 %          | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 98.3 %          | 45-146 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH11**  
**1702010-11 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:55**

| Analyte                | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Benzene</b>         | <b>2.0</b> | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene                | ND         | 1.0             | "     | "        | "       | "        | "        | "         |       |
| <b>Ethylbenzene</b>    | <b>290</b> | 10              | "     | 10       | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b> | <b>330</b> | 10              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:55**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 102 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 100 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 102 %           | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**BH12**  
**1702010-12 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **02/01/17 13:40**

| Analyte         | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene         | ND     | 1.0             | ug/l  | 1        | 1702020 | 02/03/17 | 02/03/17 | EPA 8260B |       |
| Toluene         | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene    | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total) | ND     | 1.0             | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **02/01/17 13:40**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> |        | 103 %           | 37-154 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            |        | 102 %           | 45-149 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  |        | 93.1 %          | 45-146 |          | "     | "        | "        | "      |       |

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

Project: Tampa Compressor Station

Project Number: [none]  
Project Manager: Steve Weathers

Reported:  
02/06/17 15:53

**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 1702020 - EPA 5030 Water MS**

**Blank (1702020-BLK1)**

Prepared & Analyzed: 02/02/17

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene                          | ND   | 1.0 | ug/l |      |  |      |        |  |  |  |
| Toluene                          | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Ethylbenzene                     | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Xylenes (total)                  | ND   | 1.0 | "    |      |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.9 |     | "    | 13.3 |  | 96.6 | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 13.5 |     | "    | 13.3 |  | 101  | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.2 |     | "    | 13.3 |  | 99.4 | 45-146 |  |  |  |

**LCS (1702020-BS1)**

Prepared & Analyzed: 02/02/17

|                                  |      |     |      |      |  |      |        |  |  |  |
|----------------------------------|------|-----|------|------|--|------|--------|--|--|--|
| Benzene                          | 31.6 | 1.0 | ug/l | 33.3 |  | 94.7 | 51-132 |  |  |  |
| Toluene                          | 34.5 | 1.0 | "    | 33.3 |  | 103  | 51-138 |  |  |  |
| Ethylbenzene                     | 39.0 | 1.0 | "    | 33.1 |  | 118  | 58-146 |  |  |  |
| m,p-Xylene                       | 77.8 | 2.0 | "    | 66.5 |  | 117  | 57-144 |  |  |  |
| o-Xylene                         | 39.3 | 1.0 | "    | 32.7 |  | 120  | 53-146 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 13.6 |     | "    | 13.3 |  | 102  | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 12.8 |     | "    | 13.3 |  | 96.0 | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.6 |     | "    | 13.3 |  | 102  | 45-146 |  |  |  |

**Matrix Spike (1702020-MS1)**

Source: 1702010-01

Prepared & Analyzed: 02/02/17

|                                  |      |     |      |      |    |      |        |  |  |  |
|----------------------------------|------|-----|------|------|----|------|--------|--|--|--|
| Benzene                          | 31.3 | 1.0 | ug/l | 33.3 | ND | 93.9 | 34-141 |  |  |  |
| Toluene                          | 34.2 | 1.0 | "    | 33.3 | ND | 103  | 27-151 |  |  |  |
| Ethylbenzene                     | 37.9 | 1.0 | "    | 33.1 | ND | 115  | 29-160 |  |  |  |
| m,p-Xylene                       | 77.2 | 2.0 | "    | 66.5 | ND | 116  | 20-166 |  |  |  |
| o-Xylene                         | 39.1 | 1.0 | "    | 32.7 | ND | 120  | 33-159 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 13.2 |     | "    | 13.3 |    | 98.8 | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 13.0 |     | "    | 13.3 |    | 97.6 | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.9 |     | "    | 13.3 |    | 104  | 45-146 |  |  |  |

Summit Scientific

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

Project: Tampa Compressor Station

Project Number: [none]  
 Project Manager: Steve Weathers

**Reported:**  
 02/06/17 15:53

**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 1702020 - EPA 5030 Water MS**

| <b>Matrix Spike Dup (1702020-MSD1)</b>  | <b>Source: 1702010-01</b> |     |          | <b>Prepared &amp; Analyzed: 02/02/17</b> |    |             |               |       |    |  |
|---|---------------------------|-----|----------|--|----|-------------|---------------|-------|----|--|
| Benzene                                 | 31.6                      | 1.0 | ug/l     | 33.3                                     | ND | 94.9        | 34-141        | 0.985 | 32 |  |
| Toluene                                 | 33.9                      | 1.0 | "        | 33.3                                     | ND | 102         | 27-151        | 0.793 | 25 |  |
| Ethylbenzene                            | 38.3                      | 1.0 | "        | 33.1                                     | ND | 116         | 29-160        | 0.972 | 50 |  |
| m,p-Xylene                              | 77.5                      | 2.0 | "        | 66.5                                     | ND | 116         | 20-166        | 0.284 | 36 |  |
| o-Xylene                                | 38.7                      | 1.0 | "        | 32.7                                     | ND | 119         | 33-159        | 0.951 | 26 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>14.7</i>               |     | <i>"</i> | <i>13.3</i>                              |    | <i>110</i>  | <i>37-154</i> |       |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>12.9</i>               |     | <i>"</i> | <i>13.3</i>                              |    | <i>96.5</i> | <i>45-149</i> |       |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>13.5</i>               |     | <i>"</i> | <i>13.3</i>                              |    | <i>101</i>  | <i>45-146</i> |       |    |  |

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

Project: Tampa Compressor Station

Project Number: [none]  
Project Manager: Steve Weathers

**Reported:**  
02/06/17 15:53

### 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