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December 12, 2013

Mr. Leonard Lowe  
Environmental Engineer  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

**RE: 3rd Quarter 2013 Groundwater Results  
DCP Midstream, LP RR Ext. Pipeline Release (AP #55)  
Unit C, Section 19, Township 20 South, Range 37 East  
Lea County, New Mexico**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 3rd Quarter 2013 Groundwater Results for the DCP RR Ext. Pipeline Release located in Lea County, New Mexico (Unit C, Section 19, Township 20 South, Range 37 East).

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me [swweathers@dcpmidstream.com](mailto:swweathers@dcpmidstream.com).

Sincerely

**DCP Midstream, LP**

Stephen Weathers, PG  
Principal Environmental Specialist

cc: Geoffrey Leking, Hobbs District (Copy on CD)  
Environmental Files

# Third Quarter 2013 Groundwater Monitoring and Activities Summary Report

## RR Extension Pipeline Release Lea County, New Mexico AP #55

Prepared for:



370 17<sup>th</sup> St., Suite 2500  
Denver, CO 80202

*Prepared by:*



6899 Pecos Street, Unit C  
Denver, Colorado 80221

**November 27, 2013**

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## 1. Introduction

This report summarizes the remediation and groundwater monitoring activities conducted during the third quarter 2013, at the RR-Extension pipeline release (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences, LLC (Tasman) conducted these activities on behalf of DCP Midstream, LP (DCP). The field activities were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on September 10, 2013.

## 2. Site Location and Background

The Site is located in the northeastern quarter of the northwestern quarter (Unit C) of Section 19, Township 20 South, Range 37 East (approximate coordinates 32.562339 degrees north and 103.291739 degrees west). It is approximately 4.25 miles south of the intersection of US Highway 322 and County Road 41. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas production and gathering.

Based on information included in historical Site investigation reports, a natural gas condensate release of approximately 30 barrels (bbl) was reported on December 13, 2006 (Assigned Site Reference #130040). Subsequent to preliminary investigation and characterization activities, an excavation was conducted at the Site (November 10, 2008 to December 7, 2008) whereby approximately 11,356 cubic yards of impacted material were removed. The excavation extended to approximately 20-feet below ground surface over a surface area of approximately 14,800 square feet. Backfill material was placed into the excavation and surface restoration was completed by January 12, 2009. These activities are described within the document *Closure Report – RR Extension Release Site* dated February 2009 prepared by Environmental Plus, Inc.

LNAPL has been identified immediately above the water table, which is at a depth of approximately 30-feet below the ground surface. LNAPL continues to be observed at monitoring well locations to the south and east of the original release and excavation limits.

Investigation activities conducted at the Site include installation of groundwater monitoring wells and excavation during the time periods listed below:

- MW-1 through MW-5: Installed March 2008.
- MW-6 through MW-8: Installed June 2008.
- Excavation and Backfill: Initiated – November 10, 2008; Completed – January 12, 2009.
- MW-9 through MW-12: Installed June 2010.
- MW-13 through MW-16: Installed January 2011.

Ongoing monitoring and sampling of the Site wells listed above has been conducted on an approximate quarterly basis following installation. The historical monitoring data indicate the presence of LNAPL and dissolved-phase impacts in the area of the original release. Progressive installation of monitoring wells has delineated the area in which these impacts are observed.

Boring logs for the Site monitoring wells indicate that the subsurface geology is typical of unconsolidated fine-grained sand, silt, and clay sediments. This general characteristic has been utilized in evaluating the historic and current LNAPL behavior.

### 3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the third quarter 2013 monitoring event on September 10, 2013. Monitoring activities 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 and LNAPL Elevation Monitoring

Groundwater and LNAPL levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the third quarter 2013, groundwater levels were measured at sixteen Site monitoring well locations.

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 calculated groundwater elevation data are presented in Table 1 and a third quarter 2013 groundwater elevation contour map is illustrated on Figure 3. LNAPL levels, where detected by the IP, are also presented in Table 1.

Groundwater elevations ranged from 3,504.21 feet AMSL at monitoring well MW-6 to 3,510.25 feet AMSL at monitoring well MW-16. As illustrated on Figure 3, groundwater flow at the Site generally trends to the southeast with a gradient of approximately 0.0014 foot per foot between monitoring wells MW-8 and MW-11.

Groundwater elevations from the highest and lowest measured wells were not used in calculating hydraulic gradient due to the presence of LNAPL and corrections required. The selected elevations were directly measured and are representative of the general observed gradient and flow direction.

LNAPL was detected at the following locations, with measured thickness indicated in parenthesis:

- MW-3 (0.28-ft)
- MW-4 (0.81-ft)
- MW-5 (0.98-ft)
- MW-9 (1.02-ft)
- MW-10 (0.22-ft)

### 3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected for each of the eleven monitoring wells that did not contain measurable LNAPL.

During sampling, a minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Groundwater samples were collected using dedicated polyethylene bailers, placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to Accutest Laboratories (Accutest) in Wheat Ridge, 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 and chloride by USEPA Method 300.

Detections/observations which exceed the applicable remediation standard are summarized below:

- Benzene concentrations were in exceedance of New Mexico Water Quality Control Commission (NMWQCC) Standards at two sample locations, MW-1 and MW-2. The remaining nine sample locations exhibited BTEX concentrations below laboratory detection limits.
- LNAPL was detected at five locations as indicated in Section 3.1 above.

Figure 4 displays analytical results from the third quarter 2013 event as well as the second quarter 2013 analytical results. Table 2 presents third quarter 2013 monitoring data along with data collected during the previous 4 quarters. Laboratory analytical reports for the event are included as Appendix A and historical analytical results up to and including the September 2013 event are contained in Appendix B.

Chloride was detected in all eleven - of the sampled wells with concentrations ranging from 311 mg/L in MW-13 to 489 mg/L in MW-8. Chloride values in all of the wells exceeded the NMWQCC suggested guideline of 250 mg/L.

### 3.3 Data Quality Assurance / Quality Control

The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. A trip blank, matrix spike or matrix spike duplicate (MS/MSD) and field duplicate sample were collected during the sampling event. The trip blank was fully in control, having no detection of targets.

The duplicate sample collected at MW-1 was in compliance with QA/QC standards. MW-1 and duplicate sample returned results for benzene of 0.0092 mg/L and 0.0077 mg/L.

The overall QA/QC assessment of the data, based on the data review, indicate that both field precision and overall data precision and accuracy are acceptable.

## **4. Remediation Activities**

An assessment of previously performed LNAPL bail down and recovery test conducted at the Site was ongoing during the reporting period.

### **4.1 Vacuum Enhanced LNAPL Recovery**

Vacuum enhanced LNAPL recovery was performed at the f5 Site monitoring wells with measurable LNAPL (MW-3, MW-4, MW-5, MW-9, and MW-10). During the eight-hour event, vacuum was applied to each well for 3 hours. Approximately 60 barrels were recovered during the event. The recovered volume was transported to and disposed of at the Cooper Disposal Facility in Hobbs, New Mexico.

### **4.2 LNAPL Collection Bailer**

A passive LNAPL collection bailer is installed at monitoring well MW-4. During the third quarter 2013 monitoring event, approximately 3 ounces of LNAPL were recovered from the bailer. The LNAPL collection bailer was replaced within MW-4 at the level of the product/water interface.

## **5. Conclusions**

Comparison of the third quarter 2013 monitoring data and historic information provides the following general observations:

The groundwater elevation beneath the Site has remained stable with minor seasonal and annual fluctuations since monitoring was initiated in 2008. There was no significant deviation from this trend during the third quarter 2013.

Benzene concentrations in exceedance of NMWQCC standards persist in MW-1 and MW-2. However, the remaining 9 sample locations exhibited BTEX concentrations below laboratory detection limits during the third quarter 2013 suggesting the dissolved phase petroleum hydrocarbon plume is stagnant possibly due to attenuation, low permeability aquifer material, low hydraulic gradient, or a combination of these factors.

LNAPL persists in monitoring wells MW-3, MW-4, MW-5, MW-9 and MW-10.

## **6. Recommendations**

Based on evaluation of the third quarter 2013 and historical Site observations and monitoring results, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2.
- Continue assessment of the LNAPL bail-down and recovery tests conducted at the Site.
- Continue to monitor and recover LNAPL from the passive collection bailer installed at MW-4.
- Conduct quarterly vacuum enhanced recovery events at all 5 Site monitoring wells with measurable LNAPL.



## Tables

**TABLE 1**  
**THIRD QUARTER 2013**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location                                                                    | Date      | Depth to Groundwater (1)<br>(feet) | Depth to Product (1)<br>(feet) | Free Phase Hydrocarbon Thickness<br>(feet) | Total Depth (2)<br>(feet) | TOC Elevation<br>(feet amsl) | Groundwater Elevation*<br>(feet amsl) | Change in Groundwater Elevation Since Previous Event (3)<br>(feet) |
|-----------------------------------------------------------------------------|-----------|------------------------------------|--------------------------------|--------------------------------------------|---------------------------|------------------------------|---------------------------------------|--------------------------------------------------------------------|
| MW-10*                                                                      | 9/9/2012  | 29.88                              | 29.51                          | 0.37                                       |                           | 3534.21                      | 3504.61                               | -0.14                                                              |
| MW-10*                                                                      | 12/4/2012 | 29.80                              | 29.54                          | 0.26                                       |                           | 3534.21                      | 3504.61                               | 0.00                                                               |
| MW-10*                                                                      | 2/22/2013 | 29.60                              | 29.44                          | 0.16                                       |                           | 3534.21                      | 3504.73                               | 0.13                                                               |
| MW-10*                                                                      | 6/2/2013  | 29.53                              | 29.40                          | 0.13                                       |                           | 3534.21                      | 3504.78                               | 0.05                                                               |
| MW-10*                                                                      | 9/10/2013 | 29.93                              | 29.71                          | 0.22                                       |                           | 3534.21                      | 3504.45                               | -0.33                                                              |
| MW-11                                                                       | 9/9/2012  | 31.71                              |                                |                                            | 39.69                     | 3536.19                      | 3504.48                               | -0.15                                                              |
| MW-11                                                                       | 12/4/2012 | 31.73                              |                                |                                            | 39.69                     | 3536.19                      | 3504.46                               | -0.02                                                              |
| MW-11                                                                       | 2/22/2013 | 31.62                              |                                |                                            | 39.69                     | 3536.19                      | 3504.57                               | 0.11                                                               |
| MW-11                                                                       | 6/2/2013  | 31.56                              |                                |                                            | 39.69                     | 3536.19                      | 3504.63                               | 0.06                                                               |
| MW-11                                                                       | 9/10/2013 | 31.91                              |                                |                                            | 39.69                     | 3536.19                      | 3504.28                               | -0.35                                                              |
| MW-12                                                                       | 9/9/2012  | 29.97                              |                                |                                            | 38.56                     | 3534.47                      | 3504.50                               | -0.14                                                              |
| MW-12                                                                       | 12/4/2012 | 30.00                              |                                |                                            | 38.56                     | 3534.47                      | 3504.47                               | -0.03                                                              |
| MW-12                                                                       | 2/22/2013 | 29.88                              |                                |                                            | 38.56                     | 3534.47                      | 3504.59                               | 0.12                                                               |
| MW-12                                                                       | 6/2/2013  | 29.82                              |                                |                                            | 38.56                     | 3534.47                      | 3504.65                               | 0.06                                                               |
| MW-12                                                                       | 9/10/2013 | 30.16                              |                                |                                            | 38.56                     | 3534.47                      | 3504.31                               | -0.34                                                              |
| MW-13                                                                       | 9/9/2012  | 31.03                              |                                |                                            | 39.31                     | 3536.08                      | 3505.05                               | -0.14                                                              |
| MW-13                                                                       | 12/4/2012 | 31.03                              |                                |                                            | 39.31                     | 3536.08                      | 3505.05                               | 0.00                                                               |
| MW-13                                                                       | 2/22/2013 | 29.94                              |                                |                                            | 39.31                     | 3536.08                      | 3506.14                               | 1.09                                                               |
| MW-13                                                                       | 6/2/2013  | 30.90                              |                                |                                            | 39.31                     | 3536.08                      | 3505.18                               | -0.96                                                              |
| MW-13                                                                       | 9/10/2013 | 31.20                              |                                |                                            | 39.31                     | 3536.08                      | 3504.88                               | -0.30                                                              |
| MW-14                                                                       | 9/9/2012  | 30.17                              |                                |                                            | 42.05                     | 3534.96                      | 3504.79                               | -0.08                                                              |
| MW-14                                                                       | 12/4/2012 | 30.18                              |                                |                                            | 42.05                     | 3534.96                      | 3504.78                               | -0.01                                                              |
| MW-14                                                                       | 2/22/2013 | 30.10                              |                                |                                            | 42.05                     | 3534.96                      | 3504.86                               | 0.08                                                               |
| MW-14                                                                       | 6/2/2013  | 30.02                              |                                |                                            | 42.05                     | 3534.96                      | 3504.94                               | 0.08                                                               |
| MW-14                                                                       | 9/10/2013 | 30.35                              |                                |                                            | 42.05                     | 3534.96                      | 3504.61                               | -0.33                                                              |
| MW-15                                                                       | 9/9/2012  | 30.40                              |                                |                                            | 36.55                     | 3534.90                      | 3504.50                               | -0.14                                                              |
| MW-15                                                                       | 12/4/2012 | 30.40                              |                                |                                            | 36.55                     | 3534.90                      | 3504.50                               | 0.00                                                               |
| MW-15                                                                       | 2/22/2013 | 30.29                              |                                |                                            | 36.55                     | 3534.90                      | 3504.61                               | 0.11                                                               |
| MW-15                                                                       | 6/2/2013  | 30.23                              |                                |                                            | 36.55                     | 3534.90                      | 3504.67                               | 0.06                                                               |
| MW-15                                                                       | 9/10/2013 | 30.57                              |                                |                                            | 36.55                     | 3534.90                      | 3504.33                               | -0.34                                                              |
| MW-16                                                                       | 9/9/2012  | 29.25                              |                                |                                            | 42.91                     | 3533.68                      | 3504.43                               | -0.08                                                              |
| MW-16                                                                       | 12/4/2012 | 29.29                              |                                |                                            | 42.91                     | 3533.68                      | 3504.39                               | -0.04                                                              |
| MW-16                                                                       | 2/22/2013 | 29.15                              |                                |                                            | 42.91                     | 3533.68                      | 3504.53                               | 0.14                                                               |
| MW-16                                                                       | 6/2/2013  | 29.01                              |                                |                                            | 42.91                     | 3533.68                      | 3504.67                               | 0.14                                                               |
| MW-16                                                                       | 9/10/2013 | 29.43                              |                                |                                            | 42.91                     | 3533.68                      | 3504.25                               | -0.42                                                              |
| Average change in groundwater elevation since the previous monitoring event |           |                                    |                                |                                            |                           |                              |                                       | -0.30                                                              |

Notes:

1- Depths measured from the north edge of the well casing.

2- Total depths were collected and recorded during the third quarter 2013 monitoring event (with the exception of wells that contained LNAPL).

3- 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.

Data presented for well locations includes previous four sampling events, when available. Historic groundwater elevation data for these locations may be found in Appendix B.

Sample locations are shown on Figure 2 and a groundwater elevation contour map is shown on Figure 3

amsl - feet above mean sea level.

TOC - top of casing

\* For wells that contained LNAPL, groundwater elevation was corrected for product thickness using the following calculation:

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

LNAPL density was assumed to be approximately 0.75 grams per cubic centimeter

**TABLE 1**  
**THIRD QUARTER 2013**  
**SUMMARY OF GROUNDWATER ELEVATION DATA**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location | Date      | Depth to Groundwater (1)<br>(feet) | Depth to Product (1)<br>(feet) | Free Phase Hydrocarbon Thickness<br>(feet) | Total Depth (2)<br>(feet) | TOC Elevation<br>(feet amsl) | Groundwater Elevation*<br>(feet amsl) | Change in Groundwater Elevation Since Previous Event (3)<br>(feet) |
|----------|-----------|------------------------------------|--------------------------------|--------------------------------------------|---------------------------|------------------------------|---------------------------------------|--------------------------------------------------------------------|
| MW-1     | 9/9/2012  | 29.75                              |                                |                                            | 39.05                     | 3534.57                      | 3504.82                               | -0.14                                                              |
| MW-1     | 12/4/2012 | 29.75                              |                                |                                            | 39.05                     | 3534.57                      | 3504.82                               | 0.00                                                               |
| MW-1     | 2/22/2013 | 29.62                              |                                |                                            | 39.05                     | 3534.57                      | 3504.95                               | 0.13                                                               |
| MW-1     | 6/2/2013  | 29.60                              |                                |                                            | 39.05                     | 3534.57                      | 3504.97                               | 0.02                                                               |
| MW-1     | 9/10/2013 | 29.89                              |                                |                                            | 39.05                     | 3534.57                      | 3504.68                               | -0.29                                                              |
| MW-2     | 9/9/2012  | 30.51                              |                                |                                            | 39.81                     | 3535.18                      | 3504.67                               | -0.13                                                              |
| MW-2     | 12/4/2012 | 30.50                              |                                |                                            | 39.81                     | 3535.18                      | 3504.68                               | 0.01                                                               |
| MW-2     | 2/22/2013 | 30.39                              |                                |                                            | 39.81                     | 3535.18                      | 3504.79                               | 0.11                                                               |
| MW-2     | 6/2/2013  | 30.35                              |                                |                                            | 39.81                     | 3535.18                      | 3504.83                               | 0.04                                                               |
| MW-2     | 9/10/2013 | 30.68                              |                                |                                            | 39.81                     | 3535.18                      | 3504.50                               | -0.33                                                              |
| MW-3*    | 9/9/2012  | 32.33                              | 31.50                          | 0.83                                       |                           | 3536.57                      | 3504.86                               | -0.11                                                              |
| MW-3*    | 12/4/2012 | 32.40                              | 31.50                          | 0.90                                       |                           | 3536.57                      | 3504.85                               | -0.02                                                              |
| MW-3*    | 2/22/2013 | 32.03                              | 31.47                          | 0.56                                       |                           | 3536.57                      | 3504.96                               | 0.11                                                               |
| MW-3*    | 6/2/2013  | 31.83                              | 31.50                          | 0.33                                       |                           | 3536.57                      | 3504.99                               | 0.03                                                               |
| MW-3*    | 9/10/2013 | 32.02                              | 31.74                          | 0.28                                       |                           | 3536.57                      | 3504.76                               | -0.23                                                              |
| MW-4*    | 9/9/2012  | 31.74                              | 30.70                          | 1.04                                       |                           | 3535.20                      | 3504.24                               | -0.21                                                              |
| MW-4*    | 12/4/2012 | 31.60                              | 30.62                          | 0.98                                       |                           | 3535.20                      | 3504.34                               | 0.09                                                               |
| MW-4*    | 2/22/2013 | 31.50                              | 30.60                          | 0.90                                       |                           | 3535.20                      | 3504.38                               | 0.04                                                               |
| MW-4*    | 6/2/2013  | 31.12                              | 30.54                          | 0.58                                       |                           | 3535.20                      | 3504.52                               | 0.14                                                               |
| MW-4*    | 9/10/2013 | 31.71                              | 30.90                          | 0.81                                       |                           | 3535.20                      | 3504.10                               | -0.42                                                              |
| MW-5*    | 9/9/2012  | 32.30                              | 31.17                          | 1.13                                       |                           | 3535.92                      | 3504.47                               | -0.13                                                              |
| MW-5*    | 12/4/2012 | 32.31                              | 31.18                          | 1.13                                       |                           | 3535.92                      | 3504.46                               | -0.01                                                              |
| MW-5*    | 2/22/2013 | 31.98                              | 31.14                          | 0.84                                       |                           | 3535.92                      | 3504.57                               | 0.11                                                               |
| MW-5*    | 6/2/2013  | 31.78                              | 31.14                          | 0.64                                       |                           | 3535.92                      | 3504.62                               | 0.05                                                               |
| MW-5*    | 9/10/2013 | 32.35                              | 31.37                          | 0.98                                       |                           | 3535.92                      | 3504.31                               | -0.31                                                              |
| MW-6     | 9/9/2012  | 31.78                              |                                |                                            | 40.35                     | 3536.16                      | 3504.38                               | -0.12                                                              |
| MW-6     | 12/4/2012 | 31.81                              |                                |                                            | 40.35                     | 3536.16                      | 3504.35                               | -0.03                                                              |
| MW-6     | 2/22/2013 | 31.71                              |                                |                                            | 40.35                     | 3536.16                      | 3504.45                               | 0.10                                                               |
| MW-6     | 6/2/2013  | 31.66                              |                                |                                            | 40.35                     | 3536.16                      | 3504.50                               | 0.05                                                               |
| MW-6     | 9/10/2013 | 31.95                              |                                |                                            | 40.35                     | 3536.16                      | 3504.21                               | -0.29                                                              |
| MW-7     | 9/9/2012  | 32.53                              |                                |                                            | 40.25                     | 3537.09                      | 3504.56                               | -0.14                                                              |
| MW-7     | 12/4/2012 | 32.52                              |                                |                                            | 40.25                     | 3537.09                      | 3504.57                               | 0.01                                                               |
| MW-7     | 2/22/2013 | 32.41                              |                                |                                            | 40.25                     | 3537.09                      | 3504.68                               | 0.11                                                               |
| MW-7     | 6/2/2013  | 32.37                              |                                |                                            | 40.25                     | 3537.09                      | 3504.72                               | 0.04                                                               |
| MW-7     | 9/10/2013 | 32.67                              |                                |                                            | 40.25                     | 3537.09                      | 3504.42                               | -0.30                                                              |
| MW-8     | 9/9/2012  | 31.45                              |                                |                                            | 39.42                     | 3536.41                      | 3504.96                               | -0.14                                                              |
| MW-8     | 12/4/2012 | 31.45                              |                                |                                            | 39.42                     | 3536.41                      | 3504.96                               | 0.00                                                               |
| MW-8     | 2/22/2013 | 31.33                              |                                |                                            | 39.42                     | 3536.41                      | 3505.08                               | 0.12                                                               |
| MW-8     | 6/2/2013  | 31.31                              |                                |                                            | 39.42                     | 3536.41                      | 3505.10                               | 0.02                                                               |
| MW-8     | 9/10/2013 | 31.60                              |                                |                                            | 39.42                     | 3536.41                      | 3504.81                               | -0.29                                                              |
| MW-9*    | 9/9/2012  | 30.10                              | 29.09                          | 1.01                                       |                           | 3534.20                      | 3504.86                               | -0.12                                                              |
| MW-9*    | 12/4/2012 | 30.03                              | 29.10                          | 0.93                                       |                           | 3534.20                      | 3504.87                               | 0.01                                                               |
| MW-9*    | 2/22/2013 | 29.83                              | 29.02                          | 0.81                                       |                           | 3534.20                      | 3504.98                               | 0.11                                                               |
| MW-9*    | 6/2/2013  | 29.76                              | 29.00                          | 0.76                                       |                           | 3534.20                      | 3505.01                               | 0.03                                                               |
| MW-9*    | 9/10/2013 | 30.28                              | 29.26                          | 1.02                                       |                           | 3534.20                      | 3504.69                               | -0.33                                                              |

**TABLE 2**  
**THIRD QUARTER 2013**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location Identification                                                  | Sample Date | Benzene (mg/l)      | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments                   |
|--------------------------------------------------------------------------|-------------|---------------------|----------------|---------------------|----------------------|-------------------|----------------------------|
| New Mexico Water Quality Control Commission Groundwater Standards (mg/L) |             | 0.01                | 0.75           | 0.75                | 0.62                 | 250               |                            |
| MW-1                                                                     | 9/9/2012    | 0.0216              | <0.002         | 0.0029              | <0.003               | 465               | Duplicate Sample Collected |
| MW-1                                                                     | 12/4/2012   | 0.0194              | <0.002         | 0.0024              | <0.003               | 445               | Duplicate Sample Collected |
| MW-1                                                                     | 2/22/2013   | 0.0063              | <0.002         | 0.00066             | <0.003               | 474               | Duplicate Sample Collected |
| MW-1                                                                     | 6/2/2013    | 0.0313              | <0.002         | 0.0028              | <0.003               | 451               | Duplicate Sample Collected |
| MW-1                                                                     | 9/10/2013   | 0.0092              | <0.002         | 0.0016              | <0.003               | 400               | Duplicate Sample Collected |
| MW-2                                                                     | 9/9/2012    | 1.53                | 0.203          | 0.138               | 0.14                 | 393               |                            |
| MW-2                                                                     | 12/4/2012   | 1.26                | 0.115          | 0.0854              | 0.116                | 385               |                            |
| MW-2                                                                     | 2/22/2013   | 4.53 <sup>(3)</sup> | 0.474          | 0.298               | 0.482                | 386               |                            |
| MW-2                                                                     | 6/2/2013    | 1.25                | 0.0582         | 0.0644              | 0.103                | 406               |                            |
| MW-2                                                                     | 9/10/2013   | 4.47                | 0.374          | 0.226               | 0.375                | 339               |                            |
| MW-3                                                                     | 9/9/2012    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-3                                                                     | 12/4/2012   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-3                                                                     | 2/22/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-3                                                                     | 6/2/2013    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-3                                                                     | 9/10/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-4                                                                     | 9/9/2012    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-4                                                                     | 12/4/2012   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-4                                                                     | 2/22/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-4                                                                     | 6/2/2013    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-4                                                                     | 9/10/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-5                                                                     | 9/9/2012    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-5                                                                     | 12/4/2012   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-5                                                                     | 2/22/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-5                                                                     | 6/2/2013    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-5                                                                     | 9/10/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-6                                                                     | 9/9/2012    | <0.001              | <0.002         | <0.002              | <0.003               | 377               |                            |
| MW-6                                                                     | 12/4/2012   | <0.001              | <0.002         | <0.002              | <0.003               | 358               |                            |
| MW-6                                                                     | 2/22/2013   | <0.001              | <0.002         | <0.002              | <0.003               | 385               |                            |
| MW-6                                                                     | 6/2/2013    | <0.001              | <0.002         | <0.002              | <0.003               | 372               |                            |
| MW-6                                                                     | 9/10/2013   | <0.001              | <0.002         | <0.002              | <0.003               | 367               |                            |
| MW-7                                                                     | 9/9/2012    | <0.001              | <0.002         | <0.002              | <0.003               | 362               |                            |
| MW-7                                                                     | 12/4/2012   | <0.001              | <0.002         | <0.002              | <0.003               | 334               |                            |
| MW-7                                                                     | 2/22/2013   | 0.00059             | <0.002         | <0.002              | <0.003               | 363               |                            |
| MW-7                                                                     | 6/2/2013    | <0.001              | <0.002         | <0.002              | <0.003               | 361               |                            |
| MW-7                                                                     | 9/10/2013   | <0.001              | <0.002         | <0.002              | <0.003               | 332               |                            |
| MW-8                                                                     | 9/9/2012    | <0.001              | <0.002         | <0.002              | <0.003               | 509               |                            |
| MW-8                                                                     | 12/4/2012   | <0.001              | <0.002         | <0.002              | <0.003               | 500               |                            |
| MW-8                                                                     | 2/22/2013   | 0.00048             | <0.002         | <0.002              | <0.003               | 530               |                            |
| MW-8                                                                     | 6/2/2013    | <0.001              | <0.002         | <0.002              | <0.003               | 524               |                            |
| MW-8                                                                     | 9/10/2013   | <0.001              | <0.002         | <0.002              | <0.003               | 489               |                            |
| MW-9                                                                     | 9/9/2012    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-9                                                                     | 12/4/2012   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-9                                                                     | 2/22/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-9                                                                     | 6/2/2013    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-9                                                                     | 9/10/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-10                                                                    | 9/9/2012    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-10                                                                    | 12/4/2012   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-10                                                                    | 2/22/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-10                                                                    | 6/2/2013    | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |
| MW-10                                                                    | 9/10/2013   | LNAPL               | LNAPL          | LNAPL               | LNAPL                | LNAPL             |                            |

**TABLE 2**  
**THIRD QUARTER 2013**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location Identification                                                  | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|--------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| New Mexico Water Quality Control Commission Groundwater Standards (mg/L) |             | 0.01           | 0.75           | 0.75                | 0.62                 | 250               |          |
| MW-11                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 399               |          |
| MW-11                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 382               |          |
| MW-11                                                                    | 2/22/2013   | 0.0004         | <0.002         | <0.002              | <0.003               | 419               |          |
| MW-11                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 424               |          |
| MW-11                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 394               |          |
| MW-12                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 487               |          |
| MW-12                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 469               |          |
| MW-12                                                                    | 2/22/2013   | 0.00041        | <0.002         | <0.002              | <0.003               | 484               |          |
| MW-12                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 461               |          |
| MW-12                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 428               |          |
| MW-13                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 321               |          |
| MW-13                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 317               |          |
| MW-13                                                                    | 2/22/2013   | 0.00073        | <0.002         | <0.002              | <0.003               | 337               |          |
| MW-13                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 333               |          |
| MW-13                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 311               |          |
| MW-14                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 536               |          |
| MW-14                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 544               |          |
| MW-14                                                                    | 2/22/2013   | 0.00034        | <0.002         | <0.002              | <0.003               | 553               |          |
| MW-14                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 538               |          |
| MW-14                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 486               |          |
| MW-15                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 318               |          |
| MW-15                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 313               |          |
| MW-15                                                                    | 2/22/2013   | 0.00034        | <0.002         | <0.002              | <0.003               | 333               |          |
| MW-15                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 324               |          |
| MW-15                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 331               |          |
| MW-16                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 334               |          |
| MW-16                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 339               |          |
| MW-16                                                                    | 2/22/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 358               |          |
| MW-16                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 364               |          |
| MW-16                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 359               |          |

**Notes:**

- 1.) The environmental cleanup standards for water that are applicable to this Site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.
- 2.) Data presented for all well locations includes previous four sampling events, when available. Historic groundwater analytical results for these locations may be found in Appendix B.
- 3.) Benzene concentration result from second quarter 2013 was from the second analytical run, as indicated in the laboratory report.

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

Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

\* Chlorides are subject to the National Secondary Drinking Water Regulations (NSDWR) secondary maximum contaminant levels (SMCLs) and not an enforceably regulated constituent. The 250 mg/L standard is established only as a guideline to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor.

LNAPL = Light Non-Aqueous Phase Liquid

NM = Not measured.

mg/L = milligrams per liter.

## Figures









DESIGNED BY: C. Wasko  
DRAWN BY: J. Clonts  
SHEET CHK'D BY: \_\_\_\_\_  
CROSS CHK'D BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_



Tasman Geosciences, LLC  
6899 Pecos Street - Unit C  
Denver, CO 80221  
303 487 1228

**RR - EXTENSION PIPELINE RELEASE**

**SITE MAP**

**FIGURE  
2**





DESIGNED BY: J. Barker  
 DRAWN BY: D. Arnold  
 SHEET CHK'D BY: \_\_\_\_\_  
 CROSS CHK'D BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_



**TASMAN**  
GEOSCIENCES

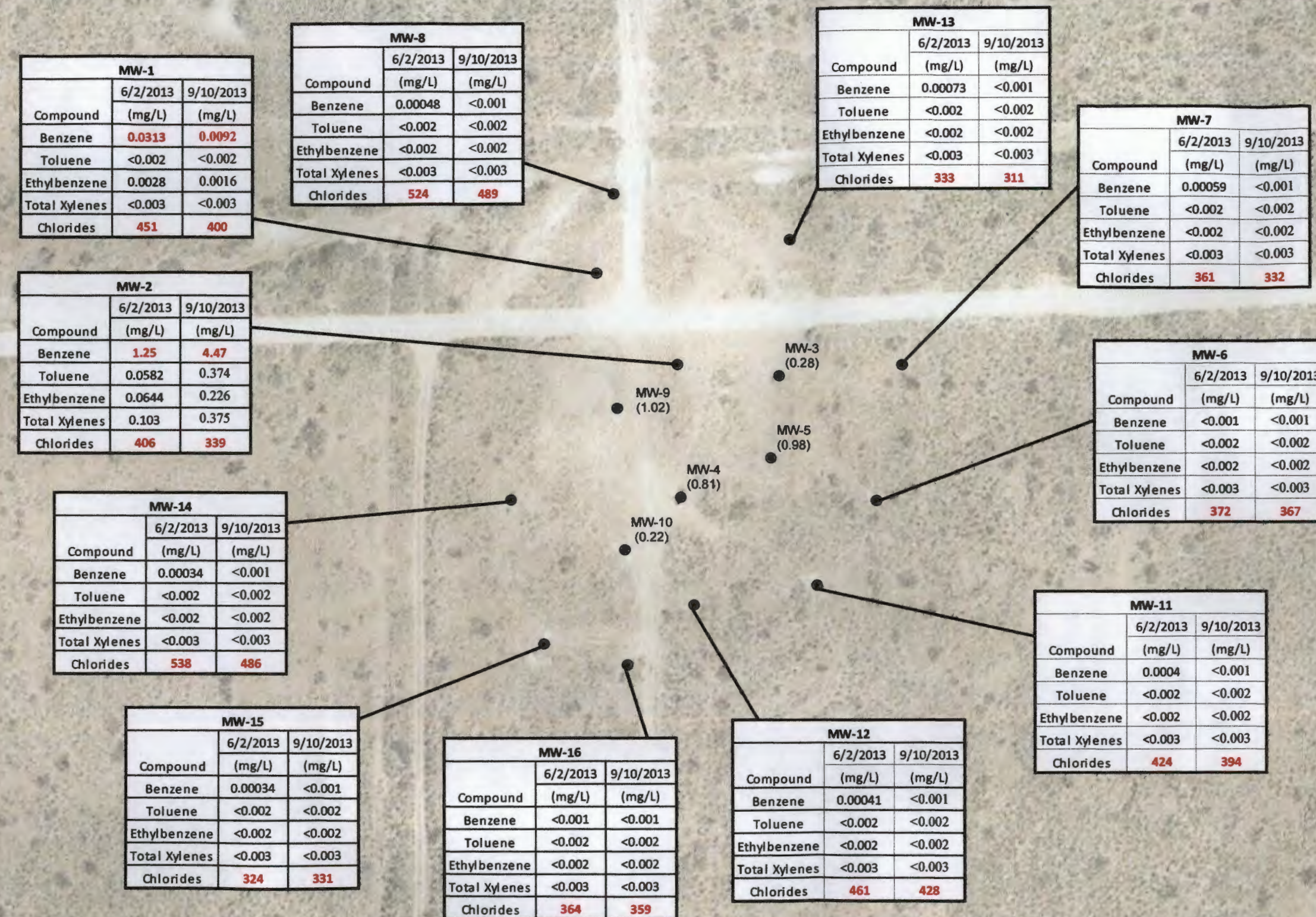
Tasman Geosciences, LLC  
 6899 Pecos Street - Unit C  
 Denver, CO 80221  
 303 487 1228

**RR - EXTENSION PIPELINE RELEASE**  
*Third Quarter 2013 Groundwater Monitoring  
 Summary Report*

**GROUNDWATER ELEVATION  
 CONTOUR MAP**  
 (SEPTEMBER 10, 2013)

**FIGURE  
 3**





## Legend

- Monitoring Well
- (0.02) Measured LNAPL Thickness

## Notes:

All aqueous analytical results are presented in milligrams per liter (mg/L)

LNAPL - Light Non-Aqueous Phase Liquid



0 50 100 Feet

DESIGNED BY: J. Barker

DRAWN BY: D. Arnold

SHEET CHK'D BY: \_\_\_\_\_

CROSS CHK'D BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_



Tasman Geosciences, LLC  
6899 Pecos Street - Unit C  
Denver, CO 80221  
303 487 1228

## RR - EXTENSION PIPELINE RELEASE

### Third Quarter 2013 Groundwater Monitoring Summary Report

## ANALYTICAL RESULTS MAP

## FIGURE 4



## Appendix A

### Laboratory Analytical Reports



09/18/13

## Technical Report for

DCP Midstream, LP

TASMCOA:DCP RR EXT

RC-GN00 Project-390761103

Accutest Job Number: D50380

Sampling Date: 09/10/13

### Report to:

Tasman Geoscience LLC  
6899 Pecos Street Unit C  
Denver, CO 80221  
swweathers@dcpmidstream.com; cwasko@tasman-geo.com  
  
ATTN: Christine Wasko

Total number of pages in report: **45**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'Scott Heideman'.

Scott Heideman  
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.  
Test results relate only to samples analyzed.



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Sample Summary

DCP Midstream, LP

Job No: D50380

TASMCOA:DCP RR EXT  
Project No: RC-GN00 Project-390761103

| Sample Number | Collected Date | Time By  | Received | Matrix Code | Type               | Client Sample ID |
|---------------|----------------|----------|----------|-------------|--------------------|------------------|
| D50380-1      | 09/10/13       | 12:35 CW | 09/11/13 | AQ          | Ground Water       | MW-1             |
| D50380-2      | 09/10/13       | 12:45 CW | 09/11/13 | AQ          | Ground Water       | MW-2             |
| D50380-3      | 09/10/13       | 12:05 CW | 09/11/13 | AQ          | Ground Water       | MW-6             |
| D50380-4      | 09/10/13       | 12:20 CW | 09/11/13 | AQ          | Ground Water       | MW-7             |
| D50380-5      | 09/10/13       | 12:40 CW | 09/11/13 | AQ          | Ground Water       | MW-8             |
| D50380-6      | 09/10/13       | 12:00 CW | 09/11/13 | AQ          | Ground Water       | MW-11            |
| D50380-7      | 09/10/13       | 11:40 CW | 09/11/13 | AQ          | Ground Water       | MW-12            |
| D50380-8      | 09/10/13       | 12:30 CW | 09/11/13 | AQ          | Ground Water       | MW-13            |
| D50380-8D     | 09/10/13       | 12:30 CW | 09/11/13 | AQ          | Water Dup/MSD      | MW-13            |
| D50380-8M     | 09/10/13       | 12:30 CW | 09/11/13 | AQ          | Water Matrix Spike | MW-13            |
| D50380-9      | 09/10/13       | 11:55 CW | 09/11/13 | AQ          | Ground Water       | MW-14            |
| D50380-10     | 09/10/13       | 11:45 CW | 09/11/13 | AQ          | Ground Water       | MW-15            |
| D50380-11     | 09/10/13       | 11:50 CW | 09/11/13 | AQ          | Ground Water       | MW-16            |





Sample Summary  
(continued)

DCP Midstream, LP

Job No: D50380

TASMCOA:DCP RR EXT  
Project No: RC-GN00 Project-390761103

| Sample<br>Number | Collected |          | Received | Matrix |                  | Client<br>Sample ID |
|------------------|-----------|----------|----------|--------|------------------|---------------------|
|                  | Date      | Time By  |          | Code   | Type             |                     |
| D50380-12        | 09/10/13  | 00:00 CW | 09/11/13 | AQ     | Ground Water     | DUP                 |
| D50380-13        | 09/10/13  | 13:00 CW | 09/11/13 | AQ     | Trip Blank Water | TRIP BLANK          |



## CASE NARRATIVE / CONFORMANCE SUMMARY

**Client:** DCP Midstream, LP

**Job No** D50380

**Site:** TASMCOA:DCP RR EXT

**Report Date** 9/18/2013 3:34:32 PM

On 09/11/2013, 12 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D50380 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### Volatiles by GCMS By Method SW846 8260B

**Matrix** AQ

**Batch ID:** V6V1156

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D50380-8MS, D50380-8MSD were used as the QC samples indicated.

### Wet Chemistry By Method EPA 300.0/SW846 9056

**Matrix** AQ

**Batch ID:** GP10896

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D50379-2MS, D50379-2MSD were used as the QC samples for the Chloride analysis.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.



## Summary of Hits

Page 1 of 2

**Job Number:** D50380  
**Account:** DCP Midstream, LP  
**Project:** TASMCOA:DCP RR EXT  
**Collected:** 09/10/13



| Lab Sample ID    | Client Sample ID | Result/<br>Qual | RL     | MDL     | Units | Method               |
|------------------|------------------|-----------------|--------|---------|-------|----------------------|
| <b>D50380-1</b>  | <b>MW-1</b>      |                 |        |         |       |                      |
| Benzene          |                  | 0.0092          | 0.0010 | 0.00025 | mg/l  | SW846 8260B          |
| Ethylbenzene     |                  | 0.0016 J        | 0.0020 | 0.00025 | mg/l  | SW846 8260B          |
| Chloride         |                  | 440             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-2</b>  | <b>MW-2</b>      |                 |        |         |       |                      |
| Benzene          |                  | 4.47            | 0.050  | 0.013   | mg/l  | SW846 8260B          |
| Toluene          |                  | 0.374           | 0.10   | 0.050   | mg/l  | SW846 8260B          |
| Ethylbenzene     |                  | 0.226           | 0.10   | 0.013   | mg/l  | SW846 8260B          |
| Xylene (total)   |                  | 0.375           | 0.15   | 0.10    | mg/l  | SW846 8260B          |
| Chloride         |                  | 399             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-3</b>  | <b>MW-6</b>      |                 |        |         |       |                      |
| Chloride         |                  | 367             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-4</b>  | <b>MW-7</b>      |                 |        |         |       |                      |
| Chloride         |                  | 332             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-5</b>  | <b>MW-8</b>      |                 |        |         |       |                      |
| Chloride         |                  | 489             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-6</b>  | <b>MW-11</b>     |                 |        |         |       |                      |
| Chloride         |                  | 394             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-7</b>  | <b>MW-12</b>     |                 |        |         |       |                      |
| Chloride         |                  | 428             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-8</b>  | <b>MW-13</b>     |                 |        |         |       |                      |
| Chloride         |                  | 311             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-9</b>  | <b>MW-14</b>     |                 |        |         |       |                      |
| Chloride         |                  | 486             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |
| <b>D50380-10</b> | <b>MW-15</b>     |                 |        |         |       |                      |
| Chloride         |                  | 331             | 10     |         | mg/l  | EPA 300.0/SW846 9056 |

Summary of Hits

Job Number: D50380  
Account: DCP Midstream, LP  
Project: TASMCOA:DCP RR EXT  
Collected: 09/10/13



| Lab Sample ID | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

D50380-11 MW-16

|          |     |    |  |      |                      |
|----------|-----|----|--|------|----------------------|
| Chloride | 359 | 10 |  | mg/l | EPA 300.0/SW846 9056 |
|----------|-----|----|--|------|----------------------|

D50380-12 DUP

|              |          |        |         |      |                      |
|--------------|----------|--------|---------|------|----------------------|
| Benzene      | 0.0077   | 0.0010 | 0.00025 | mg/l | SW846 8260B          |
| Ethylbenzene | 0.0012 J | 0.0020 | 0.00025 | mg/l | SW846 8260B          |
| Chloride     | 433      | 10     |         | mg/l | EPA 300.0/SW846 9056 |

D50380-13 TRIP BLANK

No hits reported in this sample.

Sample Results

Report of Analysis



## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-1               |                        |          |
| <b>Lab Sample ID:</b>    | D50380-1           | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Date Received:</b>  | 09/11/13 |
| <b>Method:</b>           | SW846 8260B        | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20841.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | 0.0092 | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | 0.0016 | 0.0020 | 0.00025 | mg/l  | J |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94%    |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 110%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 92%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-1               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-1           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 440    | 10 | mg/l  | 20 | 09/11/13 16:51 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-2               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-2           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMSOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20842.D | 50 | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL    | MDL   | Units | Q |
|-----------|----------------|--------|-------|-------|-------|---|
| 71-43-2   | Benzene        | 4.47   | 0.050 | 0.013 | mg/l  |   |
| 108-88-3  | Toluene        | 0.374  | 0.10  | 0.050 | mg/l  |   |
| 100-41-4  | Ethylbenzene   | 0.226  | 0.10  | 0.013 | mg/l  |   |
| 1330-20-7 | Xylene (total) | 0.375  | 0.15  | 0.10  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 88%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-2               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-2           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 399    | 10 | mg/l  | 20 | 09/11/13 17:02 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

4.2  
4

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-6               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-3           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20843.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98%    |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 85%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-6               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-3           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 367    | 10 | mg/l  | 20 | 09/11/13 17:13 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit



## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-4           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20844.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 109%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 86%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-4           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 332    | 10 | mg/l  | 20 | 09/11/13 12:34 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

Page 1 of 1

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-8               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-5           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20845.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 111%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 87%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-8               | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-5           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 489    | 10 | mg/l  | 20 | 09/11/13 12:45 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-11              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-6           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20846.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 109%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 87%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-11              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-6           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 394    | 10 | mg/l  | 20 | 09/11/13 12:56 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-12              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-7           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20847.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 107%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 85%    |        | 69-130% |

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-12              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-7           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 428    | 10 | mg/l  | 20 | 09/11/13 13:08 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-13              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-8           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20848.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 110%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 84%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-13              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-8           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 311    | 10 | mg/l  | 20 | 09/11/13 14:59 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-14              |                        |          |
| <b>Lab Sample ID:</b>    | D50380-9           | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Date Received:</b>  | 09/11/13 |
| <b>Method:</b>           | SW846 8260B        | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20851.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 110%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 89%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-14              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-9           | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 486    | 10 | mg/l  | 20 | 09/11/13 15:10 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-15              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-10          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20852.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99%    |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 110%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 87%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-15              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-10          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 331    | 10 | mg/l  | 20 | 09/11/13 15:22 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

4.10  
4

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-16              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-11          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20853.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 84%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-16              | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-11          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 359    | 10 | mg/l  | 20 | 09/11/13 15:33 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

4.11  
4

## Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | DUP                | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-12          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B        |                        |          |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20854.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | 0.0077 | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | 0.0012 | 0.0020 | 0.00025 | mg/l  | J |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 108%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 84%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                    |                        |          |
|--------------------------|--------------------|------------------------|----------|
| <b>Client Sample ID:</b> | DUP                | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-12          | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Ground Water  | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | TASMCOA:DCP RR EXT |                        |          |

General Chemistry

| Analyte  | Result | RL | Units | DF | Analyzed       | By | Method               |
|----------|--------|----|-------|----|----------------|----|----------------------|
| Chloride | 433    | 10 | mg/l  | 20 | 09/11/13 15:44 | GH | EPA 300.0/SW846 9056 |

RL = Reporting Limit

4.12  
4

## Report of Analysis

|                          |                       |                        |          |
|--------------------------|-----------------------|------------------------|----------|
| <b>Client Sample ID:</b> | TRIP BLANK            | <b>Date Sampled:</b>   | 09/10/13 |
| <b>Lab Sample ID:</b>    | D50380-13             | <b>Date Received:</b>  | 09/11/13 |
| <b>Matrix:</b>           | AQ - Trip Blank Water | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260B           |                        |          |
| <b>Project:</b>          | TASMSOA:DCP RR EXT    |                        |          |

|        | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | 6V20855.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| Run #2 |           |    |          |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## Purgeable Aromatics

| CAS No.   | Compound       | Result | RL     | MDL     | Units | Q |
|-----------|----------------|--------|--------|---------|-------|---|
| 71-43-2   | Benzene        | ND     | 0.0010 | 0.00025 | mg/l  |   |
| 108-88-3  | Toluene        | ND     | 0.0020 | 0.0010  | mg/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 0.0020 | 0.00025 | mg/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 0.0030 | 0.0020  | mg/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 62-130% |
| 2037-26-5  | Toluene-D8            | 109%   |        | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 82%    |        | 69-130% |

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

5

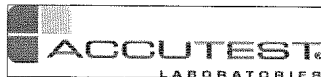
### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody





## CHAIN OF CUSTODY

PAGE 1 OF 2

4036 Youngfield Street, Wheat Ridge, CO 80033  
TEL: 303-425-6021 FAX: 303-425-6854  
www.accutest.com

|                   |  |                              |  |
|-------------------|--|------------------------------|--|
| FED-EX Tracking # |  | Bottle Order Control #       |  |
| Accutest Quote #  |  | Accutest Job # <b>D50380</b> |  |

| Client / Reporting Information                                                                                                                                                                                                                                                                                                                                                                         |  | Project Information                                                                                                                                                                                                                                                                                                          |  | Requested Analysis (see TEST CODE sheet)                                                                                                                                                                                            |  |                                               |  |            |  |        |  |              |  | Matrix Codes                                                                                                                                                                                                                                                                                                             |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|------------|--|--------|--|--------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|--|-------|--|------|--|----------|--|------|--|--------|--|--------------|--|
| Company Name<br><b>Tasman Geosciences</b>                                                                                                                                                                                                                                                                                                                                                              |  | Project Name: <b>DCP RR EXT</b>                                                                                                                                                                                                                                                                                              |  | <b>V8260BTX</b><br><b>CHL</b><br><b>MS/MSD for V8260BTX</b>                                                                                                                                                                         |  |                                               |  |            |  |        |  |              |  | <div>DW - Drinking Water<br/>GW - Ground Water<br/>WW - Water<br/>SW - Surface Water<br/>SO - Soil<br/>SL - Sludge<br/>SED - Sediment<br/>OI - Oil<br/>LIQ - Other Liquid<br/>AIR - Air<br/>SOL - Other Solid<br/>WP - Wipe<br/>FB - Field Blank<br/>EB - Equipment Blank<br/>RB - Rinse Blank<br/>TB - Trip Blank</div> |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| Street Address<br><b>6899 Pecos Street Unit C</b>                                                                                                                                                                                                                                                                                                                                                      |  | Street                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                     |  |                                               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| City<br><b>Denver CO 80221</b>                                                                                                                                                                                                                                                                                                                                                                         |  | City State                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                     |  |                                               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| Project Contact<br><b>Christine Wasko cwwasko@tasman-geo.com</b>                                                                                                                                                                                                                                                                                                                                       |  | Project #<br><b>RC - GN00 Project - 390761103</b>                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                     |  |                                               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| Phone #<br><b>720-409-8791</b>                                                                                                                                                                                                                                                                                                                                                                         |  | Client Purchase Order #                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                     |  |                                               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| Sampler(s) Name(s)<br><b>Christine Wasko</b>                                                                                                                                                                                                                                                                                                                                                           |  | Project Manager<br><b>Jim Dawe jimdawe@tasman-geo.com</b>                                                                                                                                                                                                                                                                    |  | Attention:<br><b>Steve Weathers SWWeathers@dcpmidstream.com</b>                                                                                                                                                                     |  |                                               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| Field ID / Point of Collection                                                                                                                                                                                                                                                                                                                                                                         |  | MECH/DI Vial #                                                                                                                                                                                                                                                                                                               |  | Date                                                                                                                                                                                                                                |  | Time                                          |  | Sampled by |  | Matrix |  | # of bottles |  | HCl                                                                                                                                                                                                                                                                                                                      |  | HNO3 |  | H2SO4 |  | NONE |  | DI Water |  | MECH |  | ENCORE |  | LAB USE ONLY |  |
| MW-1                                                                                                                                                                                                                                                                                                                                                                                                   |  | N/A                                                                                                                                                                                                                                                                                                                          |  | 9/10/13                                                                                                                                                                                                                             |  | 1235                                          |  | AW         |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 01           |  |
| MW-2                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 245                                           |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 02           |  |
| MW-6                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1205                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 03           |  |
| MW-7                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1220                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 04           |  |
| MW-8                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1240                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 05           |  |
| MW-11                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1200                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 06           |  |
| MW-12                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1140                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 07           |  |
| MW-13                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1230                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 08           |  |
| MW-14                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1155                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 09           |  |
| MW-15                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1145                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 10           |  |
| MW-16                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1150                                          |  |            |  | GW     |  | 4            |  | 3                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  | 1    |  |          |  |      |  |        |  | 11           |  |
| MS/MSD MW-13                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                     |  | 1230                                          |  |            |  | GW     |  | 6            |  | 6                                                                                                                                                                                                                                                                                                                        |  |      |  |       |  |      |  |          |  |      |  |        |  | 12           |  |
| Turnaround Time (Business days)                                                                                                                                                                                                                                                                                                                                                                        |  | Approved By (Accutest PM): / Date:                                                                                                                                                                                                                                                                                           |  | Data Deliverable Information                                                                                                                                                                                                        |  | Comments / Special Instructions               |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |
| <input type="checkbox"/> Std. 15 Business Days<br><input type="checkbox"/> Std. 10 Business Days<br><input type="checkbox"/> 8 Day RUSH<br><input type="checkbox"/> 3 Day Emergency<br><input type="checkbox"/> 2 Day Emergency<br><input type="checkbox"/> 1 Day Emergency<br><input checked="" type="checkbox"/> STD 5 business Days per contract<br>Emergency & Rush T/A data available VIA Lablink |  | <input type="checkbox"/> Commercial "A" (Level 1)<br><input type="checkbox"/> Commercial "B" (Level 2)<br><input checked="" type="checkbox"/> COMMBN<br><input type="checkbox"/> COMMBN+<br>Commercial "A" = Results Only<br>Commercial "B" = Results + QC Summary<br>Commercial BN = Results/QC/Narrative (+ chromatograms) |  | <input type="checkbox"/> State Forms Required<br><input type="checkbox"/> Send Forms to State<br><input type="checkbox"/> Report by Fax<br><input checked="" type="checkbox"/> Report by PDF<br><input type="checkbox"/> EDD Format |  | Email results to Steve Weathers<br>CC: CWASKO |  |            |  |        |  |              |  |                                                                                                                                                                                                                                                                                                                          |  |      |  |       |  |      |  |          |  |      |  |        |  |              |  |

| Sample Custody must be documented below each time samples change possession, including courier delivery. |                                |                             |                           |                                                                                |                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Relinquished by: <b>1</b>                                                                                | Date Time: <b>9/10/13 1530</b> | Received By: <b>1 FedEx</b> | Relinquished By: <b>2</b> | Date Time: <b>9/11/13 1010</b>                                                 | Received By: <b>2 Jacobson</b>                                                                                                    |
| Relinquished by: <b>3</b>                                                                                | Date Time:                     | Received By: <b>3</b>       | Relinquished By: <b>4</b> | Date Time:                                                                     | Received By: <b>4</b>                                                                                                             |
| Relinquished by: <b>5</b>                                                                                | Date Time:                     | Received By: <b>5</b>       | Custody Seal # <b>FX</b>  | Intact <input checked="" type="checkbox"/> Not Intact <input type="checkbox"/> | Preserved where applicable <input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> Cooler Temp. <b>3.9</b> |

D50380: Chain of Custody

Page 1 of 3



# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D50380

Client: TASMAN

Immediate Client Services Action Required: No

Date / Time Received: 9/11/2013 3:50:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: DCP

Airbill #'s: UPS

## Cooler Security

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Cooler Temperature

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun                        |                          |
| 3. Cooler media:             | Ice (bag)                           |                          |

## Quality Control Preservation

Y or N

N/A

- |                                 |                                     |                          |                          |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| 2. Trip Blank listed on COC:    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| 4. VOCs headspace free:         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Sample Integrity - Documentation

Y or N

- |                                        |                                     |                          |
|----------------------------------------|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Sample Integrity - Condition

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | Intact                              |                          |

## Sample Integrity - Instructions

Y or N N/A

- |                                           |                                     |                                     |                                     |
|-------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume rec'd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories  
V:(303) 425-6021

4036 Youngfield Street  
F: (303) 425-6854

Wheat Ridge, CO  
www.accutest.com

## GC/MS Volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

Page 1 of 1

**Job Number:** D50380

**Account:** DCPMCO DN DCP Midstream, LP

**Project:** TASMCOA:DCP RR EXT

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V6V1156-MB | 6V20839.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10, D50380-11, D50380-12, D50380-13

| CAS No.   | Compound       | Result | RL  | MDL  | Units | Q |
|-----------|----------------|--------|-----|------|-------|---|
| 71-43-2   | Benzene        | ND     | 1.0 | 0.25 | ug/l  |   |
| 100-41-4  | Ethylbenzene   | ND     | 2.0 | 0.25 | ug/l  |   |
| 108-88-3  | Toluene        | ND     | 2.0 | 1.0  | ug/l  |   |
| 1330-20-7 | Xylene (total) | ND     | 3.0 | 2.0  | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% 62-130%  |
| 2037-26-5  | Toluene-D8            | 109% 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 89% 69-130%  |

6.1.1

6



## Blank Spike Summary

Page 1 of 1

**Job Number:** D50380

**Account:** DCPMCOA DCP Midstream, LP

**Project:** TASMCOA:DCP RR EXT

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V6V1156-BS | 6V20840.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10, D50380-11, D50380-12, D50380-13

| CAS No.   | Compound       | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------|---------------|-------------|----------|--------|
| 71-43-2   | Benzene        | 50            | 48.6        | 97       | 70-130 |
| 100-41-4  | Ethylbenzene   | 50            | 54.1        | 108      | 70-130 |
| 108-88-3  | Toluene        | 50            | 52.6        | 105      | 70-130 |
| 1330-20-7 | Xylene (total) | 150           | 161         | 107      | 70-130 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97%  | 62-130% |
| 2037-26-5  | Toluene-D8            | 106% | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 69-130% |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

**Job Number:** D50380  
**Account:** DCPMCOA DCP Midstream, LP  
**Project:** TASMCOA:DCP RR EXT

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| D50380-8MS  | 6V20849.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| D50380-8MSD | 6V20850.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |
| D50380-8    | 6V20848.D | 1  | 09/13/13 | BR | n/a       | n/a        | V6V1156          |

The QC reported here applies to the following samples:

Method: SW846 8260B

D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10, D50380-11, D50380-12, D50380-13

| CAS No.   | Compound       | D50380-8<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------|------------------|--------------------|------------|---------|-------------|----------|-----|-------------------|
| 71-43-2   | Benzene        | ND               | 50                 | 46.4       | 93      | 50.4        | 101      | 8   | 62-130/30         |
| 100-41-4  | Ethylbenzene   | ND               | 50                 | 51.5       | 103     | 53.8        | 108      | 4   | 63-130/30         |
| 108-88-3  | Toluene        | ND               | 50                 | 51.2       | 102     | 54.5        | 109      | 6   | 60-130/30         |
| 1330-20-7 | Xylene (total) | ND               | 150                | 157        | 105     | 163         | 109      | 4   | 67-130/30         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | D50380-8 | Limits  |
|------------|-----------------------|------|------|----------|---------|
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 100% | 105%     | 62-130% |
| 2037-26-5  | Toluene-D8            | 108% | 106% | 110%     | 70-130% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 95%  | 84%      | 69-130% |

\* = Outside of Control Limits.

## General Chemistry

### QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D50380  
Account: DCPMCDN - DCP Midstream, LP  
Project: TASMCOA:DCP RR EXT

| Analyte           | Batch ID        | RL     | MB<br>Result | Units | Spike<br>Amount | BSP<br>Result | BSP<br>%Recov | QC<br>Limits |
|-------------------|-----------------|--------|--------------|-------|-----------------|---------------|---------------|--------------|
| Chloride          | GP10896/GN21865 | 0.50   | 0.0          | mg/l  | 20              | 19.7          | 98.5          | 90-110%      |
| Nitrogen, Nitrate | GP10896/GN21865 | 0.010  | 0.0          | mg/l  | 4.52            | 4.47          | 98.9          | 90-110%      |
| Nitrogen, Nitrite | GP10896/GN21865 | 0.0040 | 0.0          | mg/l  | 6.09            | 5.88          | 96.6          | 90-110%      |
| Sulfate           | GP10896/GN21865 | 0.50   | 0.0          | mg/l  | 30              | 29.5          | 98.3          | 90-110%      |

Associated Samples:

Batch GP10896: D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10,  
D50380-11, D50380-12

(\*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D50380  
Account: DCPMCDN - DCP Midstream, LP  
Project: TASMCOA:DCP RR EXT

| Analyte           | Batch ID        | QC Sample | Units | Original Result | Spike Amount | MS Result | %Rec  | QC Limits |
|-------------------|-----------------|-----------|-------|-----------------|--------------|-----------|-------|-----------|
| Chloride          | GP10896/GN21865 | D50379-2  | mg/l  | 9.0             | 10           | 18.9      | 99.0  | 80-120%   |
| Nitrogen, Nitrate | GP10896/GN21865 | D50379-2  | mg/l  | 0.69            | 1.13         | 1.9       | 107.1 | 80-120%   |
| Nitrogen, Nitrite | GP10896/GN21865 | D50379-2  | mg/l  | 0.0             | 0.305        | 0.32      | 105.1 | 80-120%   |
| Sulfate           | GP10896/GN21865 | D50379-2  | mg/l  | 14.8            | 10           | 24.9      | 101.0 | 80-120%   |

Associated Samples:

Batch GP10896: D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10, D50380-11, D50380-12

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.2  
7



MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: D50380  
Account: DCPMCDN - DCP Midstream, LP  
Project: TASMCOA:DCP RR EXT

| Analyte           | Batch ID        | QC Sample | Units | Original Result | Spike Amount | MSD Result | RPD | QC Limit |
|-------------------|-----------------|-----------|-------|-----------------|--------------|------------|-----|----------|
| Chloride          | GP10896/GN21865 | D50379-2  | mg/l  | 9.0             | 10           | 18.9       | 0.0 | 20%      |
| Nitrogen, Nitrate | GP10896/GN21865 | D50379-2  | mg/l  | 0.69            | 1.13         | 1.9        | 0.0 | 20%      |
| Nitrogen, Nitrite | GP10896/GN21865 | D50379-2  | mg/l  | 0.0             | 0.305        | 0.31       | 3.2 | 20%      |
| Sulfate           | GP10896/GN21865 | D50379-2  | mg/l  | 14.8            | 10           | 24.9       | 0.0 | 20%      |

Associated Samples:

Batch GP10896: D50380-1, D50380-2, D50380-3, D50380-4, D50380-5, D50380-6, D50380-7, D50380-8, D50380-9, D50380-10, D50380-11, D50380-12

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.3

7

## Appendix B

### Historical Analytical Results

**APPENDIX B**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location Identification                                                         | Sample Date | Benzene (mg/l)                      | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments                   |
|---------------------------------------------------------------------------------|-------------|-------------------------------------|----------------|---------------------|----------------------|-------------------|----------------------------|
| <b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b> |             | <b>0.01</b>                         | <b>0.75</b>    | <b>0.75</b>         | <b>0.62</b>          | <b>250</b>        |                            |
| MW-1                                                                            | 3-2008      | 1.4                                 | 0.0395         | 0.948               | 0.128                |                   |                            |
| MW-1                                                                            | 6-2008      | 2.75                                | 0.054          | 2.17                | 0.232                |                   |                            |
| MW-1                                                                            | 9-2008      | 1.1                                 | 0.0375         | 0.845               | 0.131                | 507               |                            |
| MW-1                                                                            | 12-2008     | 0.869                               | 0.0385         | 0.581               | 0.0709               | 447               |                            |
| MW-1                                                                            | 3-2009      | 0.288                               | 0.0149         | 0.107               | 0.0395               | 432               |                            |
| MW-1                                                                            | 5-2009      | 1.38                                | 0.0705         | 0.175               | 0.065                | 462               |                            |
| MW-1                                                                            | 9-2009      | 0.267                               | 0.024          | 0.0332              | 0.0078               | 422               |                            |
| MW-1                                                                            | 12-2009     | 0.819                               | 0.088          | 0.0267              | 0.012                | 363               |                            |
| MW-1                                                                            | 3-2010      | 0.726                               | 0.0879         | 0.107               | 0.0278               | 800               |                            |
| MW-1                                                                            | 6-2010      | 0.339                               | 0.0539         | 0.0329              | 0.0079               | 510               |                            |
| MW-1                                                                            | 9-2010      | 1.99                                | 0.0951         | 0.084               | 0.0219               | 442               |                            |
| MW-1                                                                            | 12-2010     | 0.708                               | 0.0796         | 0.0099              | 0.0047               | 448               |                            |
| MW-1                                                                            | 3/30/2011   | 0.0241                              | <0.001         | 0.0136              | 0.0055               | 457               |                            |
| MW-1                                                                            | 6/22/2011   | 0.0735                              | <0.01          | 0.0293              | <0.02                | 467               |                            |
| MW-1                                                                            | 9/17/2011   | 0.144                               | 0.038          | 0.0069              | 0.0087               | 472               | Duplicate sample collected |
| MW-1                                                                            | 12/8/2011   | 0.076                               | 0.002          | 0.0227              | 0.0024               | 462               | Duplicate sample collected |
| MW-1                                                                            | 3/10/2012   | 0.029                               | <0.002         | 0.0072              | <0.004               | 497               | Duplicate sample collected |
| MW-1                                                                            | 6/5/2012    | 0.069                               | 0.0014         | 0.0112              | <0.003               | 470               | Duplicate sample collected |
| MW-1                                                                            | 9/9/2012    | 0.0216                              | <0.002         | 0.0029              | <0.003               | 465               | Duplicate sample collected |
| MW-1                                                                            | 12/4/2012   | 0.0194                              | <0.002         | 0.0024              | <0.003               | 445               | Duplicate sample collected |
| MW-1                                                                            | 2/22/2013   | 0.0063                              | <0.002         | 0.00066             | <0.003               | 474               | Duplicate sample collected |
| MW-1                                                                            | 6/2/2013    | 0.0313                              | <0.002         | 0.0028              | <0.003               | 451               | Duplicate sample collected |
| MW-1                                                                            | 9/10/2013   | 0.0092                              | <0.002         | 0.0016              | <0.003               | 400               | Duplicate sample collected |
| MW-2                                                                            | 3-2008      | 8.98                                | 0.135          | 6.58                | 0.765                |                   |                            |
| MW-2                                                                            | 6-2008      | 24.3                                | 0.319          | 18.5                | 2.58                 |                   |                            |
| MW-2                                                                            | 9-2008      | 21.7                                | 0.443          | 9.79                | 4.25                 | 109               |                            |
| MW-2                                                                            | 12-2008     | Not Sampled: Remediation Activities |                |                     |                      |                   |                            |
| MW-2                                                                            | 3-2009      | 23.7                                | 0.538          | 2.34                | 1.25                 | 114               |                            |
| MW-2                                                                            | 5-2009      | 32.7                                | 0.791          | 1.31                | 1.69                 | 109               |                            |
| MW-2                                                                            | 9-2009      | 29.3                                | 0.491          | 0.771               | 0.371                | 139               |                            |
| MW-2                                                                            | 12-2009     | 28.5                                | 0.57           | 0.347               | 0.177                | 199               |                            |
| MW-2                                                                            | 3-2010      | 23.8                                | 0.529          | 0.71                | <1.2                 | 700               |                            |
| MW-2                                                                            | 6-2010      | 22.9                                | 0.485          | 0.39                | 0.128                | 233               |                            |
| MW-2                                                                            | 9-2010      | 17                                  | 0.329          | 0.257               | <0.8                 | 263               |                            |
| MW-2                                                                            | 12-2010     | 16.9                                | 0.458          | 0.399               | 0.0926               | 278               |                            |
| MW-2                                                                            | 3/30/2011   | 16.6                                | 0.165          | 0.403               | 0.116                | 320               |                            |
| MW-2                                                                            | 6/22/2011   | 9.21                                | 0.0231         | 0.377               | <0.4                 | 370               |                            |
| MW-2                                                                            | 9/17/2011   | 4.07                                | 0.415          | 0.329               | 0.203                | 375               |                            |
| MW-2                                                                            | 12/8/2011   | 1.5                                 | 0.0436         | 0.33                | 0.0254               | 392               |                            |
| MW-2                                                                            | 3/10/2012   | 1.04                                | <0.04          | 0.134               | <0.08                | 444               |                            |
| MW-2                                                                            | 6/5/2012    | 1.25                                | 0.106          | 0.158               | 0.0885               | 346               |                            |
| MW-2                                                                            | 9/9/2012    | 1.53                                | 0.203          | 0.138               | 0.14                 | 393               |                            |
| MW-2                                                                            | 12/4/2012   | 1.26                                | 0.115          | 0.0854              | 0.116                | 385               |                            |
| MW-2                                                                            | 2/22/2013   | 4.53 <sup>(9)</sup>                 | 0.474          | 0.298               | 0.482                | 386               |                            |
| MW-2                                                                            | 6/2/2013    | 1.25                                | 0.0582         | 0.0644              | 0.103                | 406               |                            |
| MW-2                                                                            | 9/10/2013   | 4.47                                | 0.374          | 0.226               | 0.375                | 339               |                            |

**APPENDIX B  
HISTORICAL DATA  
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
RR-EXTENSION PIPELINE RELEASE  
LEA COUNTY, NEW MEXICO**

| Location Identification                                                  | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|--------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| New Mexico Water Quality Control Commission Groundwater Standards (mg/L) |             | 0.01           | 0.75           | 0.75                | 0.62                 | 250               |          |
| MW-3                                                                     | 3-2008      | 0.759          | 0.0355         | 0.849               | 0.0786               |                   |          |
| MW-3                                                                     | 6-2008      | 6.18           | 0.287          | 9.46                | 1.23                 |                   |          |
| MW-3                                                                     | 9-2008      | 2.45           | 0.145          | 3.62                | 1.14                 | 363               |          |
| MW-3                                                                     | 12-2008     | 0.761          | 0.0492         | 0.938               | 0.158                | 301               |          |
| MW-3                                                                     | 3-2009      | 4.03           | 0.18           | 2.83                | 0.61                 | 273               |          |
| MW-3                                                                     | 5-2009      | 14.7           | 0.808          | 12.6                | 1.64                 | 313               |          |
| MW-3                                                                     | 9-2009      | 5.5            | 0.271          | 1.09                | <0.006               | 363               |          |
| MW-3                                                                     | 12-2009     | 13.1           | 1.2            | 9.08                | 2.87                 | 398               |          |
| MW-3                                                                     | 3-2010      | 8.43           | 1.01           | 9.14                | 2.71                 | 440               |          |
| MW-3                                                                     | 6-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 9-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 12-2010     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 3/30/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 6/22/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 9/17/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 12/8/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 3/10/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 6/5/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 9/9/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 12/4/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 2/22/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 6/2/2013    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-3                                                                     | 9/10/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 3-2008      | 0.0102         | <0.002         | 0.0093              | 0.0023               |                   |          |
| MW-4                                                                     | 6-2008      | 0.0439         | 0.0068         | 0.0256              | 0.0147               |                   |          |
| MW-4                                                                     | 9-2008      | 0.514          | 0.0203         | 0.443               | 0.125                | 318               |          |
| MW-4                                                                     | 12-2008     | 1.32           | 0.0812         | 1.35                | 0.239                | 281               |          |
| MW-4                                                                     | 3-2009      | 3.61           | 0.164          | 3.4                 | 0.831                | 229               |          |
| MW-4                                                                     | 5-2009      | 4.7            | 0.428          | 2.94                | 1.03                 | 226               |          |
| MW-4                                                                     | 9-2009      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 12-2009     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 3-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 6-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 9-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 12-2010     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 3/30/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 6/22/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 9/17/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 12/8/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 3/10/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 6/5/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 9/9/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 12/4/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 2/22/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 6/2/2013    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-4                                                                     | 9/10/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |

**APPENDIX B  
HISTORICAL DATA  
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
RR-EXTENSION PIPELINE RELEASE  
LEA COUNTY, NEW MEXICO**

| Location Identification                                                         | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|---------------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| <b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b> |             | <b>0.01</b>    | <b>0.75</b>    | <b>0.75</b>         | <b>0.62</b>          | <b>250</b>        |          |
| MW-5                                                                            | 3-2008      | 0.0019         | <0.002         | 0.0012              | <0.006               |                   |          |
| MW-5                                                                            | 6-2008      | 0.0037         | <0.002         | 0.0037              | <0.006               |                   |          |
| MW-5                                                                            | 9-2008      | 0.0038         | <0.002         | 0.0037              | <0.006               | 373               |          |
| MW-5                                                                            | 12-2008     | 0.0031         | <0.002         | 0.004               | <0.006               | 318               |          |
| MW-5                                                                            | 3-2009      | 0.0067         | <0.002         | 0.0074              | <0.006               | 288               |          |
| MW-5                                                                            | 5-2009      | 0.0064         | <0.002         | 0.0089              | <0.006               | 363               |          |
| MW-5                                                                            | 9-2009      | 0.0082         | 0.00066        | 0.0132              | <0.006               | 358               |          |
| MW-5                                                                            | 12-2009     | 0.0096         | 0.0013         | 0.0155              | 0.0021               | 313               |          |
| MW-5                                                                            | 3-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 6-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 9-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 12-2010     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 3/30/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 6/22/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 9/17/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 12/8/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 3/10/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 6/5/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 9/9/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 12/4/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 2/22/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 6/2/2013    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-5                                                                            | 9/10/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-6                                                                            | 6-2008      | <0.002         | <0.002         | <0.002              | <0.006               |                   |          |
| MW-6                                                                            | 9-2008      | <0.002         | <0.002         | <0.002              | <0.006               | 363               |          |
| MW-6                                                                            | 12-2008     | <0.002         | <0.002         | <0.002              | <0.006               | 325               |          |
| MW-6                                                                            | 3-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 298               |          |
| MW-6                                                                            | 5-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 308               |          |
| MW-6                                                                            | 9-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 296               |          |
| MW-6                                                                            | 12-2009     | <0.002         | <0.002         | <0.002              | <0.006               | 393               |          |
| MW-6                                                                            | 3-2010      | <0.002         | <0.002         | <0.002              | <0.006               | 700               |          |
| MW-6                                                                            | 6-2010      | <0.001         | <0.002         | <0.002              | <0.002               | 402               |          |
| MW-6                                                                            | 9-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 337               |          |
| MW-6                                                                            | 12-2010     | <0.001         | <0.002         | <0.002              | <0.004               | 359               |          |
| MW-6                                                                            | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 386               |          |
| MW-6                                                                            | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 376               |          |
| MW-6                                                                            | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 383               |          |
| MW-6                                                                            | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 372               |          |
| MW-6                                                                            | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 406               |          |
| MW-6                                                                            | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 381               |          |
| MW-6                                                                            | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 377               |          |
| MW-6                                                                            | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 358               |          |
| MW-6                                                                            | 2/22/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 385               |          |
| MW-6                                                                            | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 372               |          |
| MW-6                                                                            | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 367               |          |

**APPENDIX B  
HISTORICAL DATA  
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
RR-EXTENSION PIPELINE RELEASE  
LEA COUNTY, NEW MEXICO**

| Location Identification                                                         | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|---------------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| <b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b> |             | <b>0.01</b>    | <b>0.75</b>    | <b>0.75</b>         | <b>0.62</b>          | <b>250</b>        |          |
| MW-7                                                                            | 6-2008      | <0.002         | <0.002         | <0.002              | <0.006               |                   |          |
| MW-7                                                                            | 9-2008      | <0.002         | <0.002         | <0.002              | <0.006               | 378               |          |
| MW-7                                                                            | 12-2008     | <0.002         | <0.002         | <0.002              | <0.006               | 348               |          |
| MW-7                                                                            | 3-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 283               |          |
| MW-7                                                                            | 5-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 298               |          |
| MW-7                                                                            | 9-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 273               |          |
| MW-7                                                                            | 12-2009     | <0.002         | <0.002         | <0.002              | <0.006               | 328               |          |
| MW-7                                                                            | 3-2010      | <0.002         | <0.002         | <0.002              | <0.006               | 750               |          |
| MW-7                                                                            | 6-2010      | 0.0005         | <0.002         | <0.002              | <0.006               | 385               |          |
| MW-7                                                                            | 9-2010      | 0.00042        | <0.002         | <0.002              | <0.004               | 326               |          |
| MW-7                                                                            | 12-2010     | <0.002         | <0.002         | <0.002              | <0.006               | 345               |          |
| MW-7                                                                            | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 382               |          |
| MW-7                                                                            | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 390               |          |
| MW-7                                                                            | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 374               |          |
| MW-7                                                                            | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 376               |          |
| MW-7                                                                            | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 392               |          |
| MW-7                                                                            | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 381               |          |
| MW-7                                                                            | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 362               |          |
| MW-7                                                                            | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 334               |          |
| MW-7                                                                            | 2/22/2013   | 0.00059        | <0.002         | <0.002              | <0.003               | 363               |          |
| MW-7                                                                            | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 361               |          |
| MW-7                                                                            | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 332               |          |
| MW-8                                                                            | 6-2008      | 0.0384         | 0.00049        | 0.0255              | 0.0016               |                   |          |
| MW-8                                                                            | 9-2008      | 0.0301         | <0.002         | 0.0161              | 0.002                | 512               |          |
| MW-8                                                                            | 12-2008     | 0.00233        | <0.002         | 0.011               | <0.006               | 393               |          |
| MW-8                                                                            | 3-2009      | 0.0218         | <0.002         | 0.0066              | <0.006               | 472               |          |
| MW-8                                                                            | 5-2009      | 0.0098         | <0.002         | 0.0049              | <0.006               | 450               |          |
| MW-8                                                                            | 9-2009      | <0.002         | <0.002         | <0.002              | <0.006               | 477               |          |
| MW-8                                                                            | 12-2009     | <0.002         | <0.002         | <0.002              | <0.006               | 472               |          |
| MW-8                                                                            | 3-2010      | <0.002         | <0.002         | <0.002              | <0.006               | 800               |          |
| MW-8                                                                            | 6-2010      | <0.001         | <0.002         | <0.002              | <0.002               | 553               |          |
| MW-8                                                                            | 9-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 486               |          |
| MW-8                                                                            | 12-2010     | <0.001         | <0.002         | <0.002              | <0.004               | 533               |          |
| MW-8                                                                            | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 529               |          |
| MW-8                                                                            | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 524               |          |
| MW-8                                                                            | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 507               |          |
| MW-8                                                                            | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 521               |          |
| MW-8                                                                            | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 528               |          |
| MW-8                                                                            | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 527               |          |
| MW-8                                                                            | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 509               |          |
| MW-8                                                                            | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 500               |          |
| MW-8                                                                            | 2/22/2013   | 0.00048        | <0.002         | <0.002              | <0.003               | 530               |          |
| MW-8                                                                            | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 524               |          |
| MW-8                                                                            | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 489               |          |
| MW-9                                                                            | 6-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | 532**             |          |
| MW-9                                                                            | 9-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 12-2010     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 3/30/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 6/22/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 9/17/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 12/8/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 3/10/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 6/5/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 9/9/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 12/4/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 2/22/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 6/2/2013    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-9                                                                            | 9/10/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |



**APPENDIX B**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location Identification                                                  | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|--------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| New Mexico Water Quality Control Commission Groundwater Standards (mg/L) |             | 0.01           | 0.75           | 0.75                | 0.62                 | 250               |          |
| MW-10                                                                    | 6-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | 656**             |          |
| MW-10                                                                    | 9-2010      | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 12-2010     | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 3/30/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 6/22/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 9/17/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 12/8/2011   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 3/10/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 6/5/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 9/9/2012    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 12/4/2012   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 2/22/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 6/2/2013    | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-10                                                                    | 9/10/2013   | LNAPL          | LNAPL          | LNAPL               | LNAPL                | LNAPL             |          |
| MW-11                                                                    | 6-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 407               |          |
| MW-11                                                                    | 9-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 365               |          |
| MW-11                                                                    | 12-2010     | <0.001         | <0.002         | <0.002              | <0.004               | 383               |          |
| MW-11                                                                    | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 406               |          |
| MW-11                                                                    | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 405               |          |
| MW-11                                                                    | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 390               |          |
| MW-11                                                                    | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 399               |          |
| MW-11                                                                    | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 403               |          |
| MW-11                                                                    | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 417               |          |
| MW-11                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 399               |          |
| MW-11                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 382               |          |
| MW-11                                                                    | 2/22/2013   | 0.0004         | <0.002         | <0.002              | <0.003               | 419               |          |
| MW-11                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 424               |          |
| MW-11                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 394               |          |
| MW-12                                                                    | 6-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 514               |          |
| MW-12                                                                    | 9-2010      | <0.001         | <0.002         | <0.002              | <0.004               | 464               |          |
| MW-12                                                                    | 12-2010     | <0.001         | <0.002         | <0.002              | <0.004               | 501               |          |
| MW-12                                                                    | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 498               |          |
| MW-12                                                                    | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 497               |          |
| MW-12                                                                    | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 493               |          |
| MW-12                                                                    | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 493               |          |
| MW-12                                                                    | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 513               |          |
| MW-12                                                                    | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 507               |          |
| MW-12                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 487               |          |
| MW-12                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 469               |          |
| MW-12                                                                    | 2/22/2013   | 0.00041        | <0.002         | <0.002              | <0.003               | 484               |          |
| MW-12                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 461               |          |
| MW-12                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 428               |          |
| MW-13                                                                    | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 326               |          |
| MW-13                                                                    | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 340               |          |
| MW-13                                                                    | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 317               |          |
| MW-13                                                                    | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 328               |          |
| MW-13                                                                    | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 331               |          |
| MW-13                                                                    | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 335               |          |
| MW-13                                                                    | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 321               |          |
| MW-13                                                                    | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 317               |          |
| MW-13                                                                    | 2/22/2013   | 0.00073        | <0.002         | <0.002              | <0.003               | 337               |          |
| MW-13                                                                    | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 333               |          |
| MW-13                                                                    | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 311               |          |

**APPENDIX B**  
**HISTORICAL DATA**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**RR-EXTENSION PIPELINE RELEASE**  
**LEA COUNTY, NEW MEXICO**

| Location Identification                                                         | Sample Date | Benzene (mg/l) | Toluene (mg/l) | Ethylbenzene (mg/l) | Total Xylenes (mg/l) | Chlorides* (mg/l) | Comments |
|---------------------------------------------------------------------------------|-------------|----------------|----------------|---------------------|----------------------|-------------------|----------|
| <b>New Mexico Water Quality Control Commission Groundwater Standards (mg/L)</b> |             | <b>0.01</b>    | <b>0.75</b>    | <b>0.75</b>         | <b>0.62</b>          | <b>250</b>        |          |
| MW-14                                                                           | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 520               |          |
| MW-14                                                                           | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 494               |          |
| MW-14                                                                           | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 478               |          |
| MW-14                                                                           | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 521               |          |
| MW-14                                                                           | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 528               |          |
| MW-14                                                                           | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 513               |          |
| MW-14                                                                           | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 536               |          |
| MW-14                                                                           | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 544               |          |
| MW-14                                                                           | 2/22/2013   | 0.00034        | <0.002         | <0.002              | <0.003               | 553               |          |
| MW-14                                                                           | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 538               |          |
| MW-14                                                                           | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 486               |          |
| MW-15                                                                           | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 303               |          |
| MW-15                                                                           | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 297               |          |
| MW-15                                                                           | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 294               |          |
| MW-15                                                                           | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 288               |          |
| MW-15                                                                           | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 308               |          |
| MW-15                                                                           | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 276               |          |
| MW-15                                                                           | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 318               |          |
| MW-15                                                                           | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 313               |          |
| MW-15                                                                           | 2/22/2013   | 0.00034        | <0.002         | <0.002              | <0.003               | 333               |          |
| MW-15                                                                           | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 324               |          |
| MW-15                                                                           | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 331               |          |
| MW-16                                                                           | 3/30/2011   | <0.001         | <0.002         | <0.002              | <0.002               | 295               |          |
| MW-16                                                                           | 6/22/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 292               |          |
| MW-16                                                                           | 9/17/2011   | <0.001         | <0.002         | <0.002              | <0.004               | 295               |          |
| MW-16                                                                           | 12/8/2011   | <0.0005        | <0.001         | <0.001              | <0.001               | 313               |          |
| MW-16                                                                           | 3/10/2012   | <0.001         | <0.002         | <0.002              | <0.004               | 322               |          |
| MW-16                                                                           | 6/5/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 334               |          |
| MW-16                                                                           | 9/9/2012    | <0.001         | <0.002         | <0.002              | <0.003               | 334               |          |
| MW-16                                                                           | 12/4/2012   | <0.001         | <0.002         | <0.002              | <0.003               | 339               |          |
| MW-16                                                                           | 2/22/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 358               |          |
| MW-16                                                                           | 6/2/2013    | <0.001         | <0.002         | <0.002              | <0.003               | 364               |          |
| MW-16                                                                           | 9/10/2013   | <0.001         | <0.002         | <0.002              | <0.003               | 359               |          |

Notes:

- 1.) The environmental cleanup standards for water that are applicable to this Site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.
  - 2.) Data presented for all well locations includes previous four sampling events, when available. Historic groundwater analytical results for these locations may be found in Appendix B.
- Bold** red values indicate an exceedance of the NMWQCC groundwater standards for the Site.

Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

LNAPL = Light Non-Aqueous Phase Liquid

NM = Not measured.

mg/L = milligrams per liter.