AP-55

1st Quarter 2013 Semi Annual Groundwater Monitoring Results

DATE:
06.11.13

DCP Midstream
370 17th Street, Suite 2500
Denver, CO 80202
303-595-3331
303-605-2226 *FAX*

June 11, 2013

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

RE: 1st 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 1st 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 .

Sincerely

DCP Midstream, LP

Stephen Weathers, PG
Principal Environmental Specialist

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

First Quarter 2013 Groundwater Monitoring and Activities Summary Report

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

Prepared for:

dcp Midstream

370 17th St., Suite 2500
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Prepared by:

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April 30, 2013

Table of Contents

1. Introduction 1
2. Site Location and Background 1
3. Groundwater Monitoring 2
3.1 Groundwater and LNAPL Elevation Monitoring 2
3.2 Groundwater Quality Monitoring 3
3.3 Data Quality Assurance / Quality Control 3
4. Remediation Activities 4
5. Conclusions 4
6. Recommendations 5

Tables

1 First Quarter 2013 Summary of Groundwater Elevation Data
2 First Quarter 2013 Summary of BTEX and Chloride Concentrations in Groundwater

Figures

1 Site Location
2 Site Map
3 First Quarter 2013 Groundwater Elevation Contour Map – February 22, 2013
4 First Quarter 2013 Analytical Results Map

Appendices

A Laboratory Analytical Results
B Historical Analytical Results

1. Introduction

This report summarizes the remediation and groundwater monitoring activities conducted during the first 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.

2. Site Location and Background

The Site is located in the northeastern quarter of the northwestern quarter 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 first quarter 2013 monitoring event on February 22nd, 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 first 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 first 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 3,504.38 feet AMSL at monitoring well MW-4 to 3,506.14 feet AMSL at monitoring well MW-13. As illustrated on Figure 3, groundwater flow at the Site generally trends to the southeast with a gradient of approximately 0.0013 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 (0.56-ft)
- MW-4 (0.90-ft)
- MW-5 (0.84-ft)
- MW-9 (0.81-ft)
- MW-10 (0.16-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 (^{0}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 was in exceedance of New Mexico Water Quality Control Commission (NMWQCC) Standards at one location, MW-2.
- Benzene was detected at nine monitoring well locations
- LNAPL was detected at five locations as indicated in Section 3.1 above.

Figure 4 displays analytical results from the first quarter 2013 event as well as the fourth quarter 2012 analytical results. Table 2 presents first 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 February 2013 event are contained in Appendix B.

Chloride was detected in all eleven (11) of the sampled wells with concentrations ranging from 333 mg/L in MW-15 to 553 mg/L in MW-14. Chloride values in all of the wells exceeded the NMWQCC suggested guideline of 250 mg/L.

Water quality parameters were collected during the first quarter 2013 monitoring event and were used to confirm groundwater stabilization prior to sample collection. Monitoring wells did not require collection of more than three (3) purge volumes to achieve parameter stabilization. As such, the analytical data are considered to be representative of Site conditions in that a minimum 3 purge volumes were evacuated from all sampled monitoring wells during the first quarter 2013 event.

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 from MW-1 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 0.0063 mg/L and 0.0054 mg/L, respectively.

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.

A passive LNAPL collection bailer is installed at monitoring well MW-4. During the first quarter 2013 monitoring event, approximately 0.2 gallons of LNAPL were recovered from the bailer. The recovered LNAPL was collected during elevation monitoring and temporarily disposed of in a 55-gallon purge drum located within secondary containment at the Hobbs Booster Station site. The LNAPL collection bailer was subsequently replaced at the level of the product/water interface.

5. Conclusions

Comparison of the first 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 first quarter 2013.

During the first quarter 2013, benzene concentrations in MW-1 decreased below NMWQCC standards for the first time since groundwater monitoring commenced in 2008. However, benzene detected in MW-2 was elevated to concentrations that have not been observed since September 2011. Benzene was observed below NMWQCC standards in seven wells which historically exhibit non-detect BTEX concentrations.

LNAPL persists in monitoring wells MW-3, MW-4, MW-5, MW-9 and MW-10. The observed LNAPL and dissolved phase detections (current and historic) indicate that the contaminant mass has continued migrating towards the southeast in the direction of the approximate groundwater gradient. Dissolved-phase impacts precede LNAPL observations over a relatively short period of time with minor lateral dispersion. This indicates that the dissolved phase BTEX plume has not extended well in advance of the

LNAPL, possibly due to attenuation, low permeability aquifer material, low hydraulic gradient, and/or a combination of these factors.

6. Recommendations

Based on evaluation of the first 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.

Tables

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

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-1	3/10/2012	29.55			39.05	3534.57	3505.02	0.06
MW-1	6/5/2012	29.61			39.05	3534.57	3504.96	-0.06
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-2	3/10/2012	30.30			39.81	3535.18	3504.88	0.05
MW-2	6/5/2012	30.38			39.81	3535.18	3504.80	-0.08
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-3*	3/10/2012	32.00	31.43	0.57		3536.57	3505.00	-0.05
MW-3*	6/5/2012	32.00	31.47	0.53		3536.57	3504.97	-0.03
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-4*	3/10/2012	31.20	30.42	0.78		3535.20	3504.59	-0.10
MW-4*	6/5/2012	31.24	30.58	0.66		3535.20	3504.46	-0.13
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-5*	3/10/2012	31.92	31.02	0.90		3535.92	3504.68	0.00
MW-5*	6/5/2012	31.92	31.12	0.80		3535.92	3504.60	-0.08
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-6	3/10/2012	31.56			40.35	3536.16	3504.60	-0.01
MW-6	6/5/2012	31.66			40.35	3536.16	3504.50	-0.10
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-7	3/10/2012	32.30			40.25	3537.09	3504.79	0.11
MW-7	6/5/0212	32.39			40.25	3537.09	3504.70	-0.09
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-8	3/10/2012	31.25			39.42	3536.41	3505.16	0.01
MW-8	6/5/2012	31.31			39.42	3536.41	3505.10	-0.06
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-9*	3/10/2012	29.81	28.90	0.91		3534.20	3505.07	0.03
MW-9*	6/5/2012	29.88	29.00	0.88		3534.20	3504.98	-0.09
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

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

Location	Date	Depth to Groundwater (1) (feet)	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (feet amsl)	Groundwater Elevation* (feet amsl)	Change in Groundwater Elevation Since Previous Event (3) (feet)
MW-10*	3/10/2012	29.52	29.31	0.21		3534.21	3504.85	0.05
MW-10*	6/5/2012	29.66	29.40	0.26		3534.21	3504.75	-0.10
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-11	3/10/2011	31.47			39.69	3536.19	3504.72	0.03
MW-11	6/5/2012	31.56			39.69	3536.19	3504.63	-0.09
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-12	3/10/2012	29.74			38.56	3534.47	3504.73	0.03
MW-12	6/5/2012	29.83			38.56	3534.47	3504.64	-0.09
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-13	3/10/2012	30.81			39.31	3536.08	3505.27	0.03
MW-13	6/5/2012	30.89			39.31	3536.08	3505.19	-0.08
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-14	3/10/2012	29.95			42.05	3534.96	3505.01	0.05
MW-14	6/5/2012	30.09			42.05	3534.96	3504.87	-0.14
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-15	3/10/2012	30.16			36.55	3534.90	3504.74	0.03
MW-15	6/5/2012	30.26			36.55	3534.90	3504.64	-0.10
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-16	3/10/2012	29.00			42.91	3533.68	3504.68	0.04
MW-16	6/5/2012	29.17			42.91	3533.68	3504.51	-0.17
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
Average change in groundwater elevation since the previous monitoring event								0.17

Notes:

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

2- Total depths were collected and recorded during the first 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 2
FIRST 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	3/10/2012	**0.029**	<0.002	0.0072	<0.004	497	Duplicate sample collected
MW-1	6/5/2012	[illegible]	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-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** [3]	0.474	0.298	0.482	386	
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-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-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-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-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-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-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	

TABLE 2
FIRST 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-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-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-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-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-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-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-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	

Notes:

The environmental cleanup standards for water that are applicable to this Site are the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards.

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.

Benzene concentration result from first 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

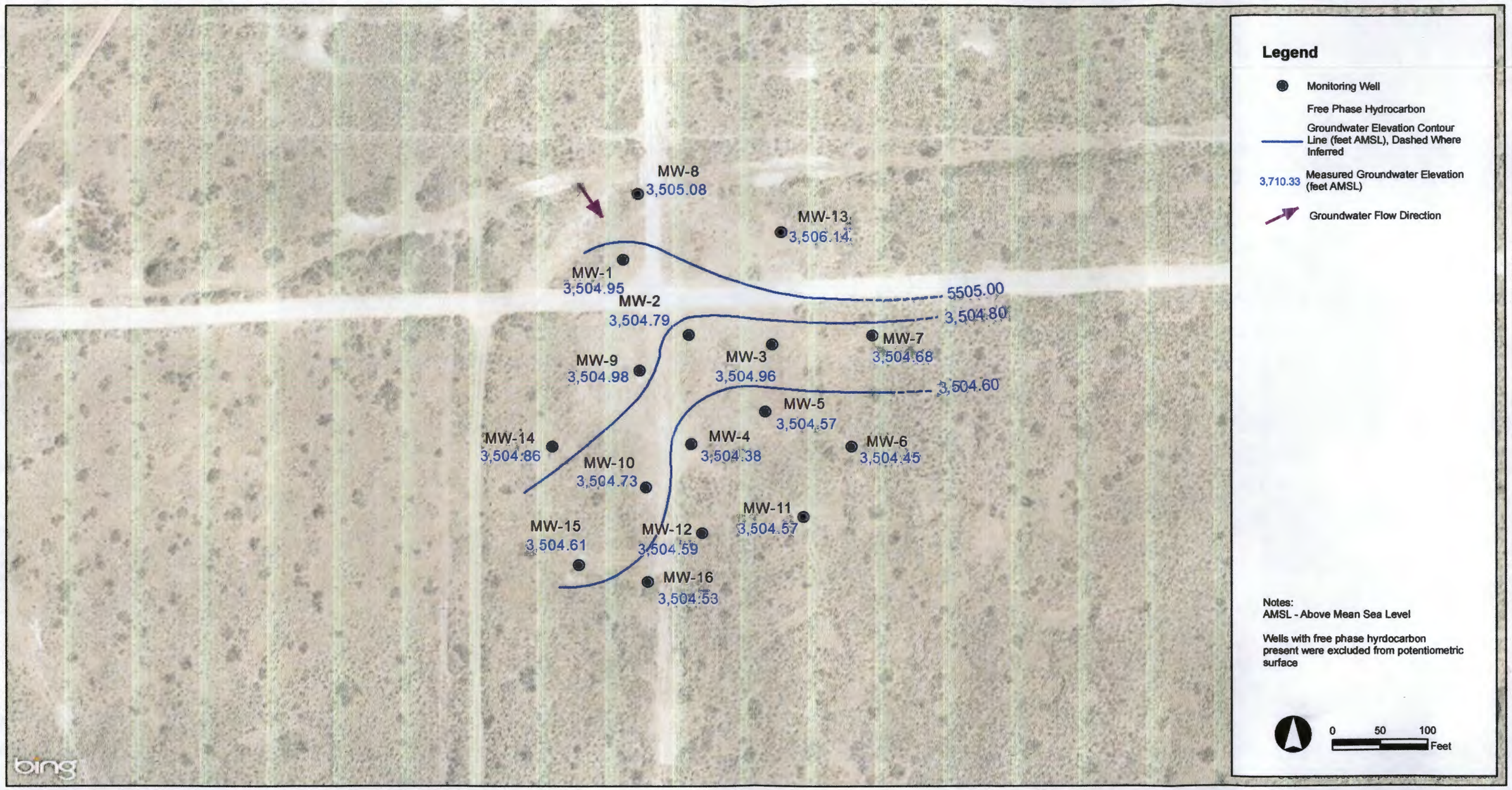
DESIGNED BY: C. Wasko DRAWN BY: J. Clonts SHEET CHK'D BY: CROSS CHK'D BY: APPROVED BY: APPROVED BY:	TASMAN GEOSCIENCES Tasman Geosciences, LLC 6899 Pecos Street - Unit C Denver, CO 80221 303 487 1228	**RR - EXTENSION PIPELINE RELEASE**	SITE LOCATION	FIGURE 1

Legend

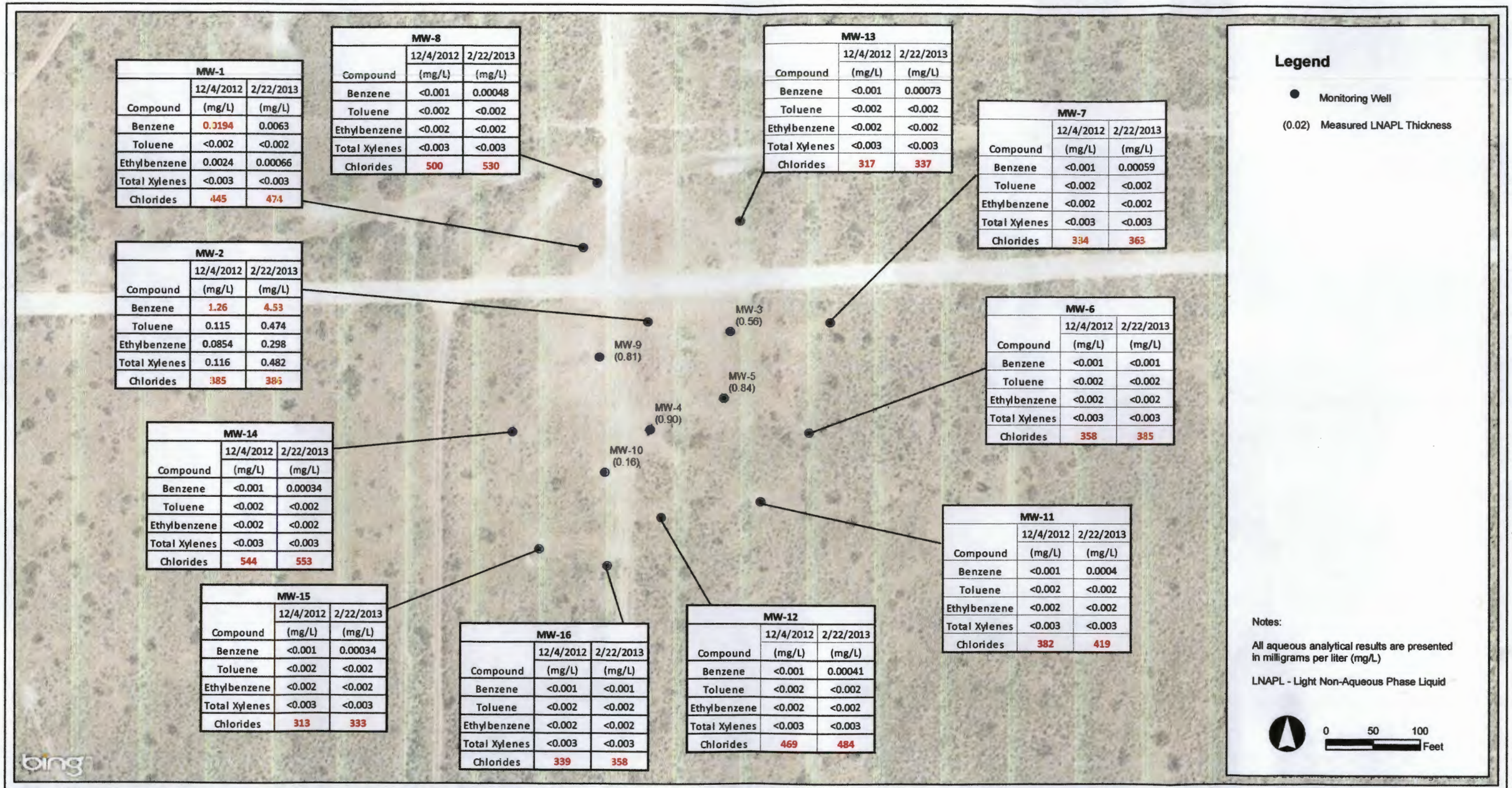
- Monitoring Well

0 50 100 Feet

DESIGNED BY: C. Wasko DRAWN BY: J. Clonts 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**	SITE MAP	FIGURE 2



DESIGNED BY: C. Wasko DRAWN BY: J. Clonts 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** *First Quarter 2013 Groundwater Monitoring Summary Report*	GROUNDWATER ELEVATION CONTOUR MAP (FEBRUARY 22, 2013)	FIGURE 3



DESIGNED BY: C. Wasko
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6899 Pecos Street - Unit C
Denver, CO 80221
303 487 1228

RR - EXTENSION PIPELINE RELEASE

First Quarter 2013 Groundwater Monitoring Summary Report

ANALYTICAL RESULTS MAP

FIGURE 4

Appendix A

Laboratory Analytical Reports

Mountain States ACCUTEST LABORATORIES

03/04/13

Technical Report for

DCP Midstream, LP

TASMCOA:DCP RR EXT

RC-GN00 Project-390761103

Accutest Job Number: D43744

Sampling Date: 02/22/13

Report to:

Tasman Geosciencec LLC
6899 Pecos Street Unit C
Denver, CO 80221
swweathers@dcpmidstream.com; jimdawe@tasman-geo.com;
cwasko@tasman-geo.com
ATTN: Jim Dawe

Total number of pages in report: **48**

ACCREDITED IN ACCORDANCE WITH nelac

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.

Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)

Sections: 1 2 3 4 5 6 7

Table of Contents

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **6**
Section 4: Sample Results **8**
4.1: D43744-1: MW-1 9
4.2: D43744-2: MW-2 11
4.3: D43744-3: MW-6 13
4.4: D43744-4: MW-7 15
4.5: D43744-5: MW-8 17
4.6: D43744-6: MW-11 19
4.7: D43744-7: MW-12 21
4.8: D43744-8: MW-13 23
4.9: D43744-9: MW-14 25
4.10: D43744-10: MW-15 27
4.11: D43744-11: MW-16 29
4.12: D43744-12: DUP 31
4.13: D43744-13: TRIP BLANK 33
Section 5: Misc. Forms **34**
5.1: Chain of Custody 35
Section 6: GC/MS Volatiles - QC Data Summaries **38**
6.1: Method Blank Summary 39
6.2: Blank Spike Summary 41
6.3: Matrix Spike/Matrix Spike Duplicate Summary 43
Section 7: General Chemistry - QC Data Summaries **45**
7.1: Method Blank and Spike Results Summary 46
7.2: Matrix Spike Results Summary 47
7.3: Matrix Spike Duplicate Results Summary 48

Sample Summary

DCP Midstream, LP

Job No: D43744

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D43744-1	02/22/13	12:40	CW	02/23/13	AQ	Ground Water	MW-1
D43744-2	02/22/13	12:45	CW	02/23/13	AQ	Ground Water	MW-2
D43744-3	02/22/13	11:50	CW	02/23/13	AQ	Ground Water	MW-6
D43744-4	02/22/13	12:00	CW	02/23/13	AQ	Ground Water	MW-7
D43744-5	02/22/13	12:25	CW	02/23/13	AQ	Ground Water	MW-8
D43744-6	02/22/13	11:40	CW	02/23/13	AQ	Ground Water	MW-11
D43744-7	02/22/13	11:30	CW	02/23/13	AQ	Ground Water	MW-12
D43744-8	02/22/13	12:10	CW	02/23/13	AQ	Ground Water	MW-13
D43744-8D	02/22/13	12:10	CW	02/23/13	AQ	Water Dup/MSD	MW-13
D43744-8M	02/22/13	12:10	CW	02/23/13	AQ	Water Matrix Spike	MW-13
D43744-9	02/22/13	11:20	CW	02/23/13	AQ	Ground Water	MW-14
D43744-10	02/22/13	11:15	CW	02/23/13	AQ	Ground Water	MW-15
D43744-11	02/22/13	11:00	CW	02/23/13	AQ	Ground Water	MW-16

Sample Summary
(continued)

DCP Midstream, LP

Job No: D43744

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D43744-12	02/22/13	12:10	CW	02/23/13	AQ	Ground Water	DUP
D43744-13	02/22/13	00:00	CW	02/23/13	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	DCP Midstream, LP	**Job No**	D43744
Site:	TASMCOA:DCP RR EXT	**Report Date**	3/4/2013 8:15:42 AM

On 02/23/2013, 12 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 5 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D43744 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:** V7V1020

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D43744-8MS, D43744-8MSD were used as the QC samples indicated.

Matrix AQ **Batch ID:** V7V1021

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D43746-6MS, D43746-6MSD were used as the QC samples indicated.

Wet Chemistry By Method EPA 300.0/SW846 9056

Matrix AQ **Batch ID:** GP9419

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D43384-1MS, D43384-1MSD 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

Job Number: D43744
Account: DCP Midstream, LP
Project: TASMCOA:DCP RR EXT
Collected: 02/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D43744-1	**MW-1**					
Benzene		0.0063	0.0010	0.00027	mg/l	SW846 8260B
Ethylbenzene		0.00066 J	0.0020	0.00033	mg/l	SW846 8260B
Chloride		474	10		mg/l	EPA 300.0/SW846 9056
D43744-2	**MW-2**					
Benzene		4.53	0.050	0.014	mg/l	SW846 8260B
Toluene		0.474	0.020	0.010	mg/l	SW846 8260B
Ethylbenzene		0.298	0.020	0.0033	mg/l	SW846 8260B
Xylene (total)		0.482	0.030	0.020	mg/l	SW846 8260B
Chloride		386	10		mg/l	EPA 300.0/SW846 9056
D43744-3	**MW-6**					
Chloride		385	10		mg/l	EPA 300.0/SW846 9056
D43744-4	**MW-7**					
Benzene		0.00059 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		363	10		mg/l	EPA 300.0/SW846 9056
D43744-5	**MW-8**					
Benzene		0.00048 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		530	10		mg/l	EPA 300.0/SW846 9056
D43744-6	**MW-11**					
Benzene		0.00040 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		419	10		mg/l	EPA 300.0/SW846 9056
D43744-7	**MW-12**					
Benzene		0.00041 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		484	10		mg/l	EPA 300.0/SW846 9056
D43744-8	**MW-13**					
Benzene		0.00073 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		337	10		mg/l	EPA 300.0/SW846 9056

Summary of Hits

Job Number: D43744
Account: DCP Midstream, LP
Project: TASMCOA:DCP RR EXT
Collected: 02/22/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D43744-9	**MW-14**					
Benzene		0.00034 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		553	10		mg/l	EPA 300.0/SW846 9056
D43744-10	**MW-15**					
Benzene		0.00034 J	0.0010	0.00027	mg/l	SW846 8260B
Chloride		333	10		mg/l	EPA 300.0/SW846 9056
D43744-11	**MW-16**					
Chloride		358	10		mg/l	EPA 300.0/SW846 9056
D43744-12	**DUP**					
Benzene		0.0054	0.0010	0.00027	mg/l	SW846 8260B
Ethylbenzene		0.00051 J	0.0020	0.00033	mg/l	SW846 8260B
Chloride		467	10		mg/l	EPA 300.0/SW846 9056
D43744-13	**TRIP BLANK**					

No hits reported in this sample.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1
Lab Sample ID: D43744-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18648.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.0063	0.0010	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	0.00066	0.0020	0.00033	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	92%		62-130%
2037-26-5	Toluene-D8	96%		70-130%
460-00-4	4-Bromofluorobenzene	93%		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

Client Sample ID: MW-1
Lab Sample ID: D43744-1
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	474	10	mg/l	20	02/25/13 12:55	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-2
Lab Sample ID: D43744-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18649.D	10	02/27/13	JL	n/a	n/a	V7V1020
Run #2	7V18678.D	50	02/28/13	JL	n/a	n/a	V7V1021

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

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.53 [a]	0.050	0.014	mg/l	
108-88-3	Toluene	0.474	0.020	0.010	mg/l	
100-41-4	Ethylbenzene	0.298	0.020	0.0033	mg/l	
1330-20-7	Xylene (total)	0.482	0.030	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	93%	62-130%
2037-26-5	Toluene-D8	99%	99%	70-130%
460-00-4	4-Bromofluorobenzene	95%	94%	69-130%

(a) Result is from Run# 2

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

Client Sample ID:	MW-2		
Lab Sample ID:	D43744-2	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	386	10	mg/l	20	02/25/13 13:07	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	D43744-3	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18679.D	1	02/28/13	JL	n/a	n/a	V7V1021
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	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	97%		62-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	96%		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

Client Sample ID:	MW-6		
Lab Sample ID:	D43744-3	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	385	10	mg/l	20	02/25/13 13:18	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	D43744-4	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18651.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00059	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	95%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	95%		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

Client Sample ID: MW-7
Lab Sample ID: D43744-4
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	363	10	mg/l	20	02/25/13 13:29	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8
Lab Sample ID: D43744-5
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18652.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00048	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	96%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Client Sample ID:	MW-8		
Lab Sample ID:	D43744-5	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	530	10	mg/l	20	02/25/13 13:40	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-11
Lab Sample ID: D43744-6
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18653.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00040	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	96%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	95%		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

Client Sample ID: MW-11
Lab Sample ID: D43744-6
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	419	10	mg/l	20	02/25/13 13:51	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	D43744-7	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18654.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00041	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	94%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Client Sample ID: MW-12
Lab Sample ID: D43744-7
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	484	10	mg/l	20	02/25/13 14:02	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-13
Lab Sample ID: D43744-8
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18647.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00073	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	94%		62-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Client Sample ID:	MW-13		
Lab Sample ID:	D43744-8	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	337	10	mg/l	20	02/25/13 14:14	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	D43744-9	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18655.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00034	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	100%		70-130%
460-00-4	4-Bromofluorobenzene	95%		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

Client Sample ID: MW-14
Lab Sample ID: D43744-9
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	553	10	mg/l	20	02/25/13 15:09	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-15		
Lab Sample ID:	D43744-10	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18656.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00034	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	94%		62-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	95%		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

Client Sample ID:	MW-15		
Lab Sample ID:	D43744-10	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	333	10	mg/l	20	02/25/13 15:21	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-16		
Lab Sample ID:	D43744-11	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18657.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	92%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Client Sample ID:	MW-16		
Lab Sample ID:	D43744-11	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP RR EXT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	358	10	mg/l	20	02/25/13 15:32	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	D43744-12	**Date Sampled:**	02/22/13
Matrix:	AQ - Ground Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18658.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.0054	0.0010	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	0.00051	0.0020	0.00033	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	99%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Client Sample ID: DUP
Lab Sample ID: D43744-12
Matrix: AQ - Ground Water
Project: TASMCOA:DCP RR EXT

Date Sampled: 02/22/13
Date Received: 02/23/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	467	10	mg/l	20	02/25/13 15:43	GH	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	D43744-13	**Date Sampled:**	02/22/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/23/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP RR EXT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V18659.D	1	02/27/13	JL	n/a	n/a	V7V1020
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	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	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	92%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

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 #: D43744

Client / Reporting Information

Company Name: Tasman Geosciences
Street Address: 6899 Pecos Street Unit C
City: Denver CO 80221
Project Contact: Christine Wasko cwasko@tasman-geo.com
Phone #: 720-409-8791
Sampler(s) Name(s): Christine Wasko

Project Information

Project Name: DCP RR EXT
Street:
City: State:
Project #: RC - GN00 Project - 390761103
Client Purchase Order #:
Project Manager: Jim Dawe jimdawe@tasman-geo.com

Billing Information (if different from Report to)

Company Name: DCP Midstream
Street Address: PO Box 4870
City: Portland OR 97208-4870
Attention: Steve Weathers SWWeathers@dcpmidstream.com

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260BTX	CHL	MS/MSD for V8260BTX	LAB USE ONLY
	MW-1	N/A	2/22/13	1240	DW	GW	4	3				1				X	X		01
	MW-2			1245		GW	4	3				1				X	X		02
	MW-6			1150		GW	4	3				1				X	X		03
	MW-7			1200		GW	4	3				1				X	X		04
	MW-8			1225		GW	4	3				1				X	X		05
	MW-11			1140		GW	4	3				1				X	X		06
	MW-12			1130		GW	4	3				1				X	X		07
	MW-13			1210		GW	4	3				1				X	X		08
	MW-14			1120		GW	4	3				1				X	X		09
	MW-15			1115		GW	4	3				1				X	X		10
	MW-16			1105		GW	4	3				1				X	X		11
	MS/MSD MW-13			1210		GW	6	6										X	08MS/MSD

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency
- [x] STD 5 business Days per contract

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] COMMBN
- [ ] COMMBN+
- [ ] State Forms Required
- [ ] Send Forms to State
- [ ] Report by Fax
- [x] Report by PDF
- [ ] EDD Format

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial BN = Results/QC/Narrative (+ = chromatograms)

Comments / Special Instructions

Email results to Steve Weathers

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	2/22/13 1600	1 Fedex	2		2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp.
5		5				✓	5.0

5.1 5

D43744: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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 #: D43744

Client / Reporting Information

Company Name: Tasman Geosciences
Street Address: 6899 Pecos Street Unit C
City: Denver CO 80221
Project Contact: Christine Wasko cwasko@tasman-geo.com
Phone #: 720-409-8791
Sampler(s) Name(s): Christine Wasko

Project Information

Project Name: DCP RR EXT
Street:
City: State:
Project #: RC - GN00 Project - 390761103
Client Purchase Order #: -
Project Manager: Jim Dawe jimdawe@tasman-geo.com

Billing Information (if different from Report to)

Company Name: DCP Midstream
Street Address: PO Box 4870
City: Portland OR 97208-4870
Attention: Steve Weathers SWWeathers@dcpmidstream.com

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260BTX	CHL	MS/MSD for V8260BTX	LAB USE ONLY
	DUP	N/A			CW	GW	4	3				1				X	X		04 12
	TRIP BLANK						2	2								X			40 13

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day Emergency
- [ ] 2 Day Emergency
- [ ] 1 Day Emergency
- [x] STD 5 business Days per contract

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] COMMBN
- [ ] COMMBN+
- [ ] State Forms Required
- [ ] Send Forms to State
- [ ] Report by Fax
- [x] Report by PDF
- [ ] EDD Format

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial BN = Results/QC/Narrative (+ = chromatograms)

Comments / Special Instructions

Email results to Steve Weathers

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		2/22/13 1100	1	2		2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp.

D43744: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D43744 **Client:** TASMAN **Immediate Client Services Action Required:** No

Date / Time Received: 2/23/2013 11:45:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: DCP RR EXT **Airbill #'s:** CO

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	
2. Trip Blank listed on COC:	☑		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021
4036 Youngfield Street
F: (303) 425-6854
Wheat Ridge, CO
www/accutest.com

D43744: Chain of Custody
Page 3 of 3

Mountain States ACCUTEST LABORATORIES

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

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1020-MB	7V18643.D	1	02/27/13	JL	n/a	n/a	V7V1020

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-1, D43744-2, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12, D43744-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.33	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	94%	62-130%
2037-26-5	Toluene-D8	99%	70-130%
460-00-4	4-Bromofluorobenzene	93%	69-130%

Method Blank Summary

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1021-MB	7V18664.D	1	02/27/13	JL	n/a	n/a	V7V1021

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-2, D43744-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.33	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	95%	62-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	95%	69-130%

Blank Spike Summary

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1020-BS	7V18644.D	1	02/27/13	JL	n/a	n/a	V7V1020

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-1, D43744-2, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12, D43744-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	49.0	98	70-130
100-41-4	Ethylbenzene	50	49.5	99	70-130
108-88-3	Toluene	50	48.3	97	70-130
1330-20-7	Xylene (total)	150	152	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	95%	62-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	69-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1021-BS	7V18665.D	1	02/27/13	JL	n/a	n/a	V7V1021

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-2, D43744-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.4	93	70-130
100-41-4	Ethylbenzene	50	48.0	96	70-130
108-88-3	Toluene	50	46.9	94	70-130
1330-20-7	Xylene (total)	150	148	99	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	62-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D43744-8MS	7V18645.D	1	02/27/13	JL	n/a	n/a	V7V1020
D43744-8MSD	7V18646.D	1	02/27/13	JL	n/a	n/a	V7V1020
D43744-8	7V18647.D	1	02/27/13	JL	n/a	n/a	V7V1020

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-1, D43744-2, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12, D43744-13

CAS No.	Compound	D43744-8 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.73	J	50	47.2	93	47.0	93	0	62-130/30
100-41-4	Ethylbenzene	ND		50	46.7	93	48.3	97	3	63-130/30
108-88-3	Toluene	ND		50	46.2	92	47.2	94	2	60-130/30
1330-20-7	Xylene (total)	ND		150	144	96	149	99	3	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D43744-8	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	96%	94%	62-130%
2037-26-5	Toluene-D8	98%	99%	98%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	94%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D43744
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D43746-6MS	7V18666.D	1	02/27/13	JL	n/a	n/a	V7V1021
D43746-6MSD	7V18667.D	1	02/27/13	JL	n/a	n/a	V7V1021
D43746-6	7V18668.D	1	02/27/13	JL	n/a	n/a	V7V1021

The QC reported here applies to the following samples: **Method:** SW846 8260B

D43744-2, D43744-3

CAS No.	Compound	D43746-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.27	J	50	47.2	94	46.2	92	2	62-130/30
100-41-4	Ethylbenzene	ND		50	48.7	97	47.5	95	2	63-130/30
108-88-3	Toluene	ND		50	47.2	94	46.8	94	1	60-130/30
1330-20-7	Xylene (total)	ND		150	150	100	147	98	2	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D43746-6	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	98%	97%	62-130%
2037-26-5	Toluene-D8	97%	98%	99%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	92%	69-130%

* = Outside of Control Limits.

Mountain States ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

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: D43744
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP9419/GN19028	0.50	0.0	mg/l	20	20.4	102.0	90-110%

Associated Samples:
Batch GP9419: D43744-1, D43744-2, D43744-3, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D43744
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP9419/GN19028	D43384-1	mg/l	152	100	264	112.0	80-120%

Associated Samples:
Batch GP9419: D43744-1, D43744-2, D43744-3, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D43744
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP RR EXT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP9419/GN19028	D43384-1	mg/l	152	100	264	0.0	20%

Associated Samples:
Batch GP9419: D43744-1, D43744-2, D43744-3, D43744-4, D43744-5, D43744-6, D43744-7, D43744-8, D43744-9, D43744-10, D43744-11, D43744-12
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	250	
MW-1	3/1/2008	1.4	0.0395	0.948	0.128		
MW-1	3/19/2008	1.4	0.948	0.0395	0.128		
MW-1	6/1/2008	2.75	0.054	2.17	0.232		
MW-1	9/1/2008	1.1	0.0375	0.845	0.131	507	
MW-1	12/1/2008	0.869	0.0385	0.581	0.0709	447	
MW-1	12/3/2008	0.869	0.581	0.0385	0.0709		
MW-1	3/1/2009	0.288	0.0149	0.107	0.0395	432	
MW-1	3/11/2009	0.288	0.107	0.0149	0.0395		
MW-1	5/1/2009	1.38	0.0705	0.175	0.065	462	
MW-1	5/19/2009	1.38	0.175	0.0705	0.065		
MW-1	9/1/2009	0.267	0.024	0.0332	0.0078	422	
MW-1	9/23/2009	0.267	0.0332	0.024	0.0078		
MW-1	12/1/2009	0.819	0.088	0.0267	0.012	363	
MW-1	12/20/2009	0.819	0.0267	0.088	0.012		
MW-1	3/1/2010	0.726	0.0879	0.107	0.0278	800	
MW-1	3/22/2010	0.726	0.107	0.0879	0.0278		
MW-1	6/1/2010	0.339	0.0539	0.0329	0.0079	510	
MW-1	6/17/2010	0.34	0.033	0.054	-		
MW-1	9/1/2010	1.99	0.0951	0.084	0.0219	442	
MW-1	9/28/2010	1.99	0.0837	0.0951	-		
MW-1	12/1/2010	0.708	0.0796	0.0099	0.0047	448	
MW-1	12/9/2010	0.708	0.0099	0.0796	-		
MW-1	3/30/2011	0.0241	<0.001	0.0136	0.0055	457	
MW-1	3/30/2011	0.0241	<0.0050	0.0136	0.0055		
MW-1	6/22/2011	0.0735	<0.01	0.0293	<0.02	467	
MW-1	6/22/2011	0.0735	<0.0050	0.0293	<0.010		
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

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-2	3/1/2008	8.98	0.135	6.58	0.765		
MW-2	3/19/2008	**8.98**	**6.58**	0.135	**0.765**		
MW-2	6/1/2008	24.3	0.319	18.5	2.58		
MW-2	9/1/2008	21.7	0.443	9.79	4.25	109	
MW-2	12/1/2008	Not Sampled: Remediation Activities					
MW-2	3/1/2009	23.7	0.538	2.34	1.25	114	
MW-2	3/11/2009	**23.7**	**2.34**	0.583	**1.25**		
MW-2	5/1/2009	32.7	0.791	1.31	1.69	109	
MW-2	5/19/2009	**32.7**	**1.31**	**0.791**	**1.69**		
MW-2	9/1/2009	29.3	0.491	0.771	0.371	139	
MW-2	9/23/2009	**29.3**	**0.771**	0.491	0.371		
MW-2	12/1/2009	28.5	0.57	0.347	0.177	199	
MW-2	12/20/2009	**28.5**	0.347	0.57	0.177		
MW-2	3/1/2010	23.8	0.529	0.71	<1.2	700	
MW-2	3/22/2010	**23.8**	0.71	0.529	<0.33		
MW-2	6/1/2010	22.9	0.485	0.39	0.128	233	
MW-2	6/17/2010	**22.9**	0.39	0.49	-		
MW-2	9/1/2010	17	0.329	0.257	<0.8	263	
MW-2	9/28/2010	**17.00**	0.257	0.329	-		
MW-2	12/1/2010	16.9	0.458	0.399	0.0926	278	
MW-2	12/9/2010	**16.9**	0.399	0.458	-		
MW-2	3/30/2011	16.6	0.165	0.403	0.116	320	
MW-2	3/30/2011	**16.6**	0.165	0.403	0.116		
MW-2	6/22/2011	9.21	0.0231	0.377	<0.4	370	
MW-2	6/22/2011	**9.21**	0.231	0.377	<0.20		
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 [3]	0.474	0.298	0.482	386	

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	3/1/2008	0.759	0.0355	0.849	0.0786		
MW-3	3/19/2008	**0.759**	**0.849**	0.0355	0.0786		
MW-3	6/1/2008	6.18	0.287	9.46	1.23		
MW-3	9/1/2008	2.45	0.145	3.62	114	363	
MW-3	12/1/2008	0.761	0.0492	0.938	0.158	301	
MW-3	3/1/2009	4.03	0.18	2.83	0.61	273	
MW-3	12/3/2008	**0.761**	**0.938**	0.0492	0.158		
MW-3	3/11/2009	**4.03**	**2.83**	0.18	0.61		
MW-3	5/1/2009	14.7	0.808	12.6	1.64	313	
MW-3	5/19/2009	**14.7**	**12.6**	**0.808**	**1.64**		
MW-3	9/1/2009	5.5	0.271	1.09	<0.006	363	
MW-3	9/23/2009	**5.5**	**1.09**	0.271	<0.17		
MW-3	12/1/2009	13.1	1.2	9.08	2.87	398	
MW-3	12/20/2009	**13.1**	**9.08**	**1.2**	**2.87**		
MW-3	3/1/2010	8.43	1.01	9.14	2.71	440	
MW-3	3/22/2010	**8.43**	**9.14**	**1.01**	**2.71**		
MW-3	6/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	9/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/1/2010	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-4	3/1/2008	0.0102	<0.002	0.0093	0.0023		
MW-4	3/19/2008	**0.0102**	0.0093	<0.00045	0.0023		
MW-4	6/1/2008	0.0439	0.0068	0.0256	0.0147		
MW-4	9/1/2008	0.514	0.0203	0.443	0.125	318	
MW-4	12/1/2008	1.32	0.0812	1.35	0.239	281	
MW-4	12/3/2008	**1.32**	**1.35**	0.0812	0.239		
MW-4	3/1/2009	3.61	0.164	3.4	0.831	229	
MW-4	3/11/2009	**3.61**	**3.4**	0.164	**0.831**		
MW-4	5/1/2009	4.7	0.428	2.94	1.03	226	
MW-4	5/19/2009	**4.7**	**2.94**	0.428	**1.03**		
MW-4	9/1/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/1/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	3/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/1/2010	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	

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-5	3/1/2008	0.0019	<0.002	0.0012	<0.006		
MW-5	3/19/2008	0.0019	0.0012	<0.00045	<0.0014		
MW-5	6/1/2008	0.0037	<0.002	0.0037	<0.006		
MW-5	9/1/2008	0.0038	<0.002	0.0037	<0.006	373	
MW-5	12/1/2008	0.0031	<0.002	0.004	<0.006	318	
MW-5	12/3/2008	0.0031	0.0041	<0.00045	<0.0014		
MW-5	3/1/2009	0.0067	<0.002	0.0074	<0.006	288	
MW-5	3/11/2009	0.0067	0.0074	<0.00045	<0.0014		
MW-5	5/1/2009	0.0064	<0.002	0.0089	<0.006	363	
MW-5	5/19/2009	0.0064	0.0089	0.0025	0.0045		
MW-5	9/1/2009	0.0082	0.00066	0.0132	<0.006	358	
MW-5	9/23/2009	0.0082	0.0132	0.00066	<0.0017		
MW-5	12/1/2009	0.0096	0.0013	0.0155	0.0021	313	
MW-5	12/20/2009	0.0096	0.0155	0.0013	0.0021		
MW-5	3/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	6/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	9/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/1/2010	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	

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-6	6/1/2008	<0.002	<0.002	<0.002	<0.006		
MW-6	9/1/2008	<0.002	<0.002	<0.002	<0.006	363	
MW-6	12/1/2008	<0.002	<0.002	<0.002	<0.006	325	
MW-6	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	3/1/2009	<0.002	<0.002	<0.002	<0.006	298	
MW-6	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	5/1/2009	<0.002	<0.002	<0.002	<0.006	308	
MW-6	5/19/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	9/1/2009	<0.002	<0.002	<0.002	<0.006	296	
MW-6	9/23/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-6	12/1/2009	<0.002	<0.002	<0.002	<0.006	393	
MW-6	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-6	3/1/2010	<0.002	<0.002	<0.002	<0.006	700	
MW-6	3/22/2010	<0.00050	<0.00043	<0.00055	<0.0017		
MW-6	6/1/2010	<0.001	<0.002	<0.002	<0.002	402	
MW-6	6/17/2010	<0.30	<1.0	<0.30	-		
MW-6	9/1/2010	<0.001	<0.002	<0.002	<0.004	337	
MW-6	9/28/2010	<0.00030	<0.0010	<0.00030	-		
MW-6	12/1/2010	<0.001	<0.002	<0.002	<0.004	359	
MW-6	12/9/2010	<0.00030	<0.0010	<0.00030	-		
MW-6	3/29/2011	<0.00030	<0.0010	<0.00030	0.00084		
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	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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	

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-7	6/1/2008	<0.002	<0.002	<0.002	<0.006		
MW-7	9/1/2008	<0.002	<0.002	<0.002	<0.006	378	
MW-7	12/1/2008	<0.002	<0.002	<0.002	<0.006	348	
MW-7	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	3/1/2009	<0.002	<0.002	<0.002	<0.006	283	
MW-7	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	5/1/2009	<0.002	<0.002	<0.002	<0.006	298	
MW-7	5/19/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	9/1/2009	<0.002	<0.002	<0.002	<0.006	273	
MW-7	9/23/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-7	12/1/2009	<0.002	<0.002	<0.002	<0.006	328	
MW-7	3/1/2010	<0.00050	<0.00043	<0.00055	<0.0017		
MW-7	3-2010	<0.002	<0.002	<0.002	<0.006	750	
MW-7	3/22/2010	<0.00050	<0.00043	<0.00055	<0.0017		
MW-7	6/1/2010	0.0005	<0.002	<0.002	<0.006	385	
MW-7	6/17/2010	0.0005	<1.0	<0.30	-		
MW-7	9/1/2010	0.00042	<0.002	<0.002	<0.004	326	
MW-7	9/28/2010	0.00042	<0.0010	<0.00030	-		
MW-7	12/1/2010	<0.002	<0.002	<0.002	<0.006	345	
MW-7	12/9/2010	<0.00030	<0.0010	<0.00030	-		
MW-7	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
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	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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	

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-8	12/3/2008	0.0233	0.0107	<0.00045	<0.0014		
MW-8	6/1/2008	0.0384	0.00049	0.0255	0.0016		
MW-8	9/1/2008	0.0301	<0.002	0.0161	0.002	512	
MW-8	12/1/2008	0.00233	<0.002	0.011	<0.006	393	
MW-8	3/1/2009	0.0218	<0.002	0.0066	<0.006	472	
MW-8	3/11/2009	0.0218	0.0066	<0.00045	<0.0014		
MW-8	5/1/2009	0.0098	<0.002	0.0049	<0.006	450	
MW-8	5/19/2009	0.0098	0.0049	<0.00045	<0.0014		
MW-8	9/1/2009	<0.002	<0.002	<0.002	<0.006	477	
MW-8	9/23/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-8	12/1/2009	<0.002	<0.002	<0.002	<0.006	472	
MW-8	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-8	3/1/2010	<0.002	<0.002	<0.002	<0.006	800	
MW-8	3/22/2010	<0.00050	<0.00043	<0.00055	<0.0017		
MW-8	6/1/2010	<0.001	<0.002	<0.002	<0.002	553	
MW-8	6/17/2010	<0.30	<1.0	<0.30	-		
MW-8	9/1/2010	<0.001	<0.002	<0.002	<0.004	486	
MW-8	9/28/2010	<0.00030	<0.0010	<0.00030	-		
MW-8	12/1/2010	<0.001	<0.002	<0.002	<0.004	533	
MW-8	12/9/2010	<0.00030	<0.0010	<0.00030	-		
MW-8	3/30/2011	<0.001	<0.002	<0.002	<0.002	529	
MW-8	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-8	6/22/2011	<0.001	<0.002	<0.002	<0.004	524	
MW-8	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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-9	6/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	532**	
MW-9	9/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/1/2010	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	

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	6/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	656**	
MW-10	9/1/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/1/2010	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-11	6/1/2010	<0.001	<0.002	<0.002	<0.004	407	
MW-11	9/1/2010	<0.001	<0.002	<0.002	<0.004	365	
MW-11	9/28/2010	<0.00030	<0.0010	<0.00030	-		
MW-11	12/9/2010	<0.00030	<0.0010	<0.00030	-		
MW-11	12/1/2010	<0.001	<0.002	<0.002	<0.004	383	
MW-11	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
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	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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-12	6/1/2010	<0.001	<0.002	<0.002	<0.004	514	
MW-12	9/1/2010	<0.001	<0.002	<0.002	<0.004	464	
MW-12	9/28/2010	<0.00030	<0.0010	<0.00030	-		
MW-12	12/9/2010	<0.00030	<0.0010	<0.00030	-		
MW-12	12/1/2010	<0.001	<0.002	<0.002	<0.004	501	
MW-12	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-12	3/30/2011	<0.001	<0.002	<0.002	<0.002	498	
MW-12	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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	

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)	Tolnene (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-13	3/30/2011	<0.001	<0.002	<0.002	<0.002	326	
MW-13	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-13	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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-14	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-14	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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-15	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-15	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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-16	3/29/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-16	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020		
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	

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**	
PW-9	6/17/2010	**17.00**	**29.8**	**2.4**	-		
PW-10	6/17/2010	**9.3**	**15.2**	**2.6**	-		
PW-11	6/17/2010	<0.30	<1.0	<0.30	-		
PW-12	6/17/2010	<0.30	<1.0	<0.30	-		

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
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
** Chloride sample was collected with LNAPL in well.
LNAPL = Light Non-Aqueous Phase Liquid
NM = Not measured.
mg/L = milligrams per liter.