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

September 18, 2013

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

RE: 2nd Quarter 2013 Groundwater Monitoring Results
DCP Midstream, LP J-4-2 Pipeline Release (1RP-1728)
Unit C, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, a copy of the 2nd Quarter 2013 Groundwater Monitoring Results for the DCP J-4-2 Pipeline Release located in Lea County, New Mexico (Unit C, Section 27, Township 19 South, Range 35 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

Second Quarter 2013 Groundwater Monitoring and Activities Summary Report

J-4-2 Pipeline Release
Lea County, New Mexico
1RP-1728

Prepared for:

370 17th St., Suite 2500
Denver, CO 80202

Prepared by:

6899 Pecos Street, Unit C
Denver, Colorado 80221

August 18, 2013

Table of Contents

1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the second quarter of 2013 at the J-4-2 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 described herein were performed on June 2nd, 2013 with the purpose of monitoring groundwater flow and quality and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons within the Site subsurface. The data collected during the reporting period were used to develop a groundwater elevation figure, an analytical results figure and LNAPL versus time and groundwater elevation graphs to evaluate current conditions at the Site.

2. Site Location and Background

The Site is located in the northeastern quarter of the northwestern quarter (Unit C) of Section 27, Township 19 South, Range 35 East approximately 3 miles south of the intersection of US Highway 82 and State Highway 483. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas production and gathering.

Based on findings from previous Site investigations, a natural gas condensate release was reported at the Site on August 3, 2005. Environmental Plus Incorporated (EPI) of Eunice, New Mexico, performed initial Site investigation activities. EPI reported that the spill was limited to an approximate area of 2,800 square feet and it did not migrate to any surface water features. EPI installed monitoring wells MW-1, MW-2, and MW-3 as a part of the initial soil and groundwater characterization effort in February 2006. Monitoring wells MW-4, MW-6, MW-7, and MW-8 were installed in September 2006 as part of a Site investigation completed by American Environmental Consulting. Installation of monitoring well MW-5 was not completed during this event due to refusal while advancing the borehole. Groundwater samples collected in 2006 from the newly installed wells indicated that dissolved phase petroleum hydrocarbons and chloride had impacted groundwater at the Site in the vicinity of monitoring wells MW-1 and MW-2. In addition, LNAPL was detected at monitoring wells MW-1 and MW-2.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the second quarter 2013 groundwater monitoring event. Monitoring activities included Site-wide groundwater gauging 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 second quarter 2013, groundwater levels were measured at seven 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]). LNAPL levels, where indicated by the IP, were also recorded.

Groundwater elevation measurements collected during the reporting period as well as historical elevations are presented in Table 1, and a second quarter 2013 groundwater elevation contour map is illustrated on Figure 3. Groundwater elevations ranged from 3,704.04 feet AMSL at monitoring well MW-8 to 3,708.04 feet AMSL at monitoring well MW-4. As illustrated on Figure 3, groundwater flow at the Site generally trends to the southeast with a gradient of approximately 0.0053 foot per foot between monitoring wells MW-4 and MW-8.

Approximately 2 ounces of LNAPL were observed in the passive LNAPL collection bailer at MW-2 during the second quarter 2013. However, measureable LNAPL was not detected by the interface probe (IP), as reflected in Table 1.

3.2 Groundwater Quality Monitoring

Groundwater levels and total well depth were measured at each of the Site monitoring wells prior to collecting groundwater samples. A minimum of three well casing volumes of groundwater were purged from the subject well prior to the collection of 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. Groundwater samples were then shipped under chain-of-custody procedures to Accutest Laboratories (Accutest) in Wheat Ridge, Colorado, for analysis.

Water quality samples were collected from six wells and 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. A groundwater sample was not collected from MW-2 due to detectable LNAPL in the passive collection bailer.

Table 2 summarizes BTEX and chloride concentrations in groundwater samples collected during the reporting period in addition to concentrations from the previous 4 quarters. Laboratory analytical reports for the event are included in Appendix A and historical analytical results up to and including the June 2013 event are contained in Appendix B. Analytical results are summarized on Figure 4. During the second quarter 2013, BTEX concentrations were below laboratory detection limits at the six Site sample

locations. Chloride was detected in all six of the sampled monitoring wells with concentrations ranging from 291 milligrams per liter (mg/L) in MW-8 to 2,010 mg/L in MW-1.

3.3 Data Quality Assurance / Quality Control

A trip blank, matrix spike or matrix spike duplicate (MS/MSD) and field duplicate (MW-1) were collected during the sampling event. 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. The trip blank was fully in control, having no detections of targets.

The duplicate sample collected at MW-1 was in compliance with the QA/QC standard. MW-1 and duplicate samples both returned BTEX concentrations below laboratory detection limits.

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

4.1 LNAPL Collection Bailer

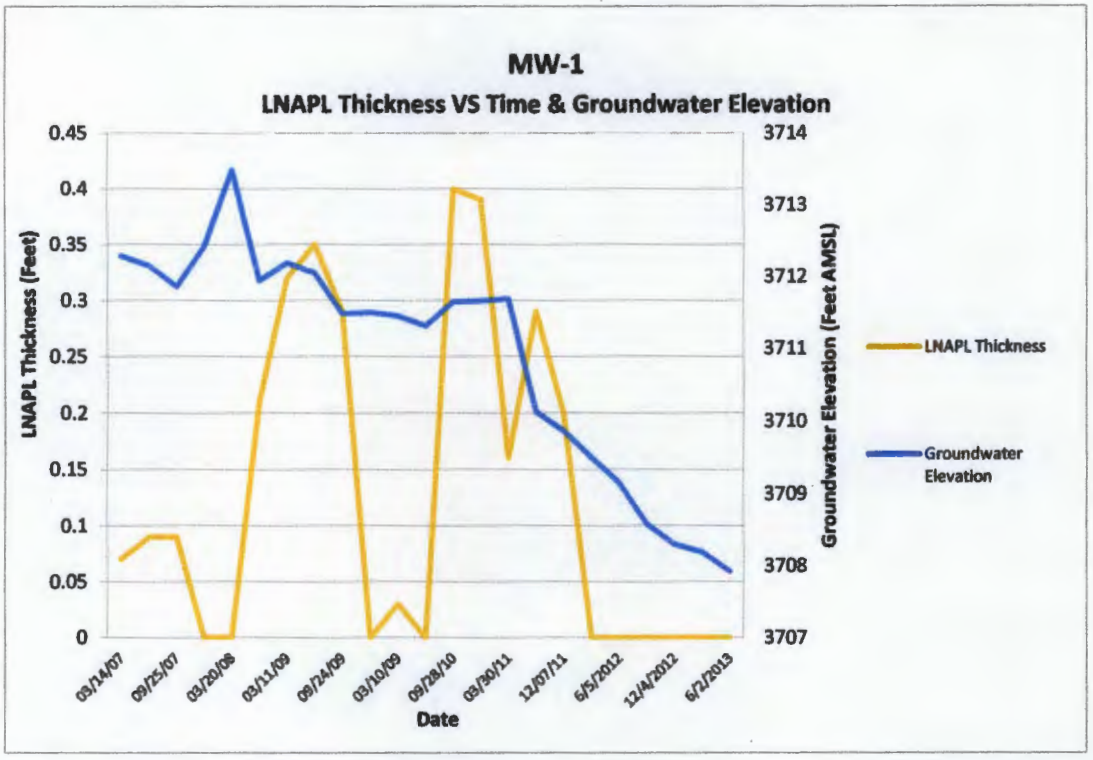
A passive LNAPL collection bailer is installed at monitoring well MW-2. During the second quarter 2013 groundwater monitoring event, approximately 2 ounces of LNAPL were recovered from the collection bailer. Although measureable LNAPL was not detected by the interface probe (IP) down hole, a groundwater sample was not collected due to the volume observed in the bailer. Following the vacuum recovery event conducted on June 5, 2013, the LNAPL collection bailer was removed from the monitoring well to allow for an accurate measurement of free phase hydrocarbons during the third quarter 2013.

4.2 Vacuum Enhanced LNAPL Recovery

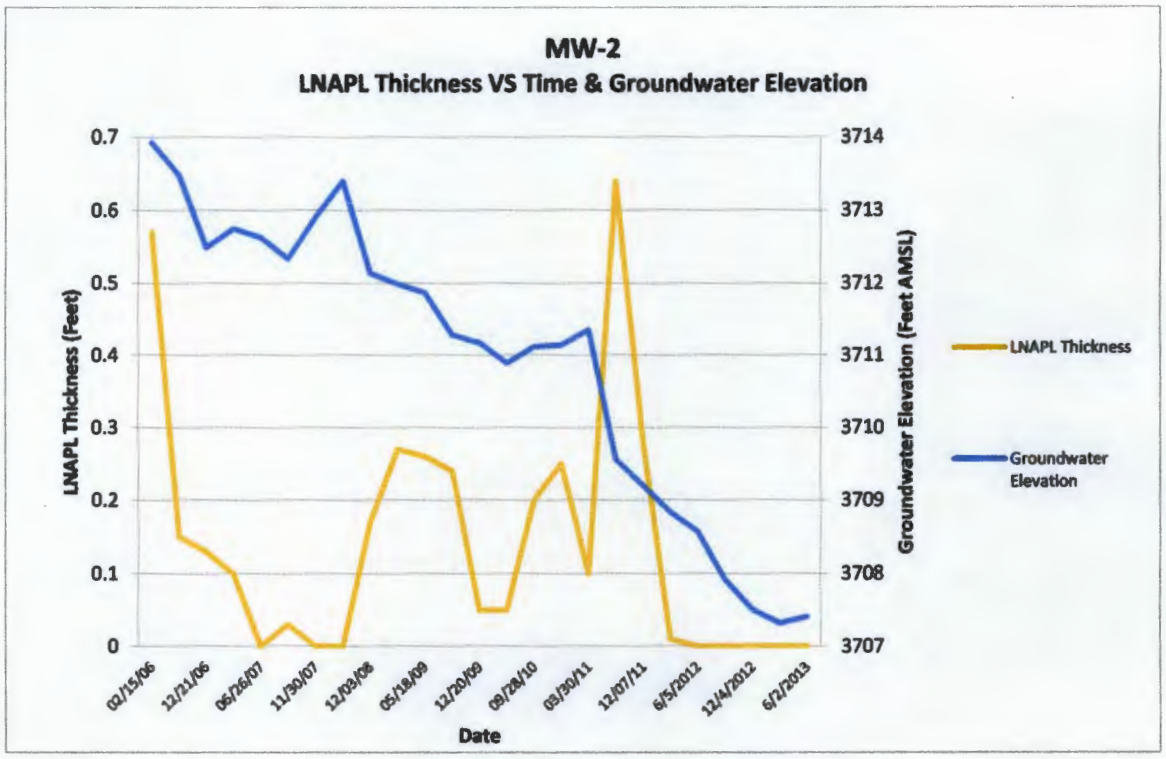
Subsequent to groundwater sampling a vacuum enhanced LNAPL recovery was performed at MW-1 and MW-2 on June 5, 2013 and approximately 30 barrels of groundwater were extracted over an eight-hour period. The recovered liquids were transported to and disposed of at the Cooper Disposal Facility in Hobbs, New Mexico.

4.3 LNAPL Trends

As illustrated in the graphs below, the LNAPL thickness in MW-1 and MW-2 does not appear to exhibit any seasonal fluctuation trends or a relationship to groundwater levels.



Groundwater elevations have exhibited a steady decrease in elevation over time, whereas product thickness has fluctuated sporadically over time with no apparent correlation to groundwater elevation.



5. Conclusions

Dissolved phase hydrocarbon concentrations did not exceed laboratory detection limits in the 6 sampled locations during the second quarter 2013. However, free phase hydrocarbons persist on Site in MW-2 as demonstrated by the volume observed in the passive LNAPL collection bailer. Removal of the passive collection bailer subsequent to the vacuum recovery event performed during the reporting period will allow for an accurate and undisturbed measurement of LNAPL during the third quarter 2013. Should the presence of free phase hydrocarbons rebound during the September 2013 event, quarterly vacuum recovery events may be once again be warranted.

Ongoing quarterly groundwater sampling will provide for continued monitoring of Site conditions, BTEX, and LNAPL trends.

6. Recommendations

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

- Continue groundwater sampling at the monitoring locations illustrated on Figure 2;
- Monitor the effectiveness of vacuum enhanced recovery at monitoring well MW-2.

Tables

TABLE 1
SECOND QUARTER 2013
SUMMARY OF GROUNDWATER ELEVATION DATA
J-4-2 PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Ground	Depth to Product (1) (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (2) (feet)	TOC Elevation (3) (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (4) (feet)
MW-1	6/5/2012	31.30			43.05	3740.45	3709.15	-0.35
MW-1	9/7/2012	31.87			43.05	3740.45	3708.58	-0.57
MW-1	12/4/2012	32.15			43.05	3740.45	3708.30	-0.28
MW-1	2/22/2013	32.26			43.05	3740.45	3708.19	-0.11
MW-1	6/2/2013	32.53			43.05	3740.45	3707.92	-0.27
MW-2	6/5/2012	32.05			43.30	3740.62	3708.57	-0.27
MW-2	9/7/2012	32.70			43.30	3740.62	3707.92	-0.65
MW-2	12/4/2012	33.11			43.30	3740.62	3707.51	-0.41
MW-2	2/22/2013	33.30			43.30	3740.62	3707.32	-0.19
MW-2	6/2/2013	33.21			43.30	3740.62	3707.41	0.09
MW-3	6/5/2012	30.54			35.20	3739.39	3708.85	-0.29
MW-3	9/7/2012	31.16			35.20	3739.39	3708.23	-0.62
MW-3	12/4/2012	31.44			35.20	3739.39	3707.95	-0.28
MW-3	2/22/2013	31.54			35.20	3739.39	3707.85	-0.10
MW-3	6/2/2013	31.80			35.20	3739.39	3707.59	-0.26
MW-4	6/5/2012	30.92			37.95	3740.24	3709.32	-0.35
MW-4	9/7/2012	31.56			37.95	3740.24	3708.68	-0.64
MW-4	12/4/2012	31.83			37.95	3740.24	3708.41	-0.27
MW-4	2/22/2013	31.95			37.95	3740.24	3708.29	-0.12
MW-4	6/2/2013	32.20			37.95	3740.24	3708.04	-0.25
MW-6	6/5/2012	31.41			34.31	3739.96	3708.55	-0.38
MW-6	9/7/2012	NM [5]			34.31	3739.96	NM	NM
MW-6	12/7/2012	32.16			34.31	3739.96	3707.80	-0.75
MW-6	2/22/2013	32.28			34.31	3739.96	3707.68	-0.12
MW-6	6/2/2013	32.51			34.31	3739.96	3707.45	-0.23
MW-7	6/5/2012	34.51			40.41	3740.73	3706.22	-0.36
MW-7	9/7/2012	34.95			40.41	3740.73	3705.78	-0.44
MW-7	12/4/2012	35.20			40.41	3740.73	3705.53	-0.25
MW-7	2/22/2013	35.35			40.41	3740.73	3705.38	-0.15
MW-7	6/2/2013	35.57			40.41	3740.73	3705.16	-0.22
MW-8	6/5/2012	32.30			38.58	3737.32	3705.02	-0.30
MW-8	9/7/2012	32.61			38.58	3737.32	3704.71	-0.31
MW-8	12/4/2012	32.89			38.58	3737.32	3704.43	-0.28
MW-8	2/22/2013	33.03			38.58	3737.32	3704.29	-0.14
MW-8	6/2/2013	33.28			38.58	3737.32	3704.04	-0.25
							Average change in groundwater elevation since the previous monitoring event	-0.20

Notes:

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

2-Total depths were collected and recorded during the second quarter 2013 monitoring event.

3-TOC elevations for monitoring wells MW-4, MW-6, MW-7, & MW-8 were calculated by adding the PVC stick-up length (in feet) to the surveyed ground surface elevations (in feet amsl).

4- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring even from the measurement collected during the most recent monitoring event.

5- MW-6 was not measured due to an obstruction of sediment fines at 31.15 feet bgs.

Monitoring well location MW-5 was not installed due geologic refusal that was encountered during drilling activities.

Data presented for all other 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

* 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
SECOND QUARTER 2013
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	6/5/2012	<0.001	<0.002	<0.002	<0.003	2480	
MW-1	9/7/2012	<0.001	<0.002	<0.002	<0.003	2060	
MW-1	12/4/2012	<0.001	<0.002	<0.002	<0.003	2240	Duplicate sample collected
MW-1	2/22/2103	0.00027	<0.002	<0.002	<0.003	2110	
MW-1	6/2/2013	<0.001	<0.002	<0.002	<0.003	2010	Duplicate sample collected
MW-2	6/5/2012	0.00043	<0.002	0.0024	0.0069	2450	
MW-2	9/7/2012	<0.001	<0.002	<0.002	<0.003	2280	
MW-2	12/4/2012	<0.001	<0.002	0.0008	0.0028	2440	
MW-2	2/22/2103	<0.001	<0.002	<0.002	<0.003	2390	Duplicate sample collected
MW-2	6/2/2013 [5]	NS	NS	NS	NS	NS	
MW-3	6/5/2012	<0.001	<0.002	<0.002	<0.003	2080	
MW-3	9/7/2012	<0.001	<0.002	<0.002	<0.003	2180	
MW-3	12/4/2012	<0.001	<0.002	<0.002	<0.003	2170	
MW-3	2/22/2103	<0.001	<0.002	<0.002	<0.003	2050	
MW-3	6/2/2013	<0.001	<0.002	<0.002	<0.003	1910	
MW-4	6/5/2012	<0.001	<0.002	<0.002	<0.003	1790	Duplicate sample collected
MW-4	9/7/2012	<0.001	<0.002	<0.002	<0.003	1910	Duplicate sample collected
MW-4	12/4/2012	<0.001	<0.002	<0.002	<0.003	1940	
MW-4	2/22/2103	<0.001	<0.002	<0.002	<0.003	1900	
MW-4	6/2/2013	<0.001	<0.002	<0.002	<0.003	1950	
MW-6	6/5/2012	<0.001	<0.002	<0.002	<0.003	532	
MW-6	9/7/2012 [4]	NS	NS	NS	NS	NS	
MW-6	12/7/2012	<0.001	<0.002	<0.002	<0.003	578	
MW-6	2/22/2103	<0.001	<0.002	<0.002	<0.003	536	
MW-6	6/2/2013	<0.001	<0.002	<0.002	<0.003	603	
MW-7	6/5/2012	<0.001	<0.002	<0.002	<0.003	1120	
MW-7	9/7/2012	<0.001	<0.002	<0.002	<0.003	1140	
MW-7	12/4/2012	<0.001	<0.002	<0.002	<0.003	1120	
MW-7	2/22/2103	<0.001	<0.002	<0.002	<0.003	1090	
MW-7	6/2/2013	<0.001	<0.002	<0.002	<0.003	1040	
MW-8	6/5/2012	<0.001	<0.002	<0.002	<0.003	316	
MW-8	9/7/2012	<0.001	<0.002	<0.002	<0.003	308	
MW-8	12/4/2012	<0.001	<0.002	<0.002	<0.003	304	
MW-8	2/22/2013	<0.001	<0.002	<0.002	<0.003	290	
MW-8	6/2/2013	<0.001	<0.002	<0.002	<0.003	291	

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.) Monitoring well location MW-5 was not installed due geologic refusal that was encountered during drilling activities.

3.) Data presented for all other well locations includes previous four sampling events, when available. Historic groundwater analytical results for these locations may be found in Appendix B.

4.) MW-6 was not sampled during the third quarter 2012 due to an obstruction in the well.

5.) MW-2 was not sampled during the second quarter 2013 due to measurable LNAPL in the passive collection bailer.

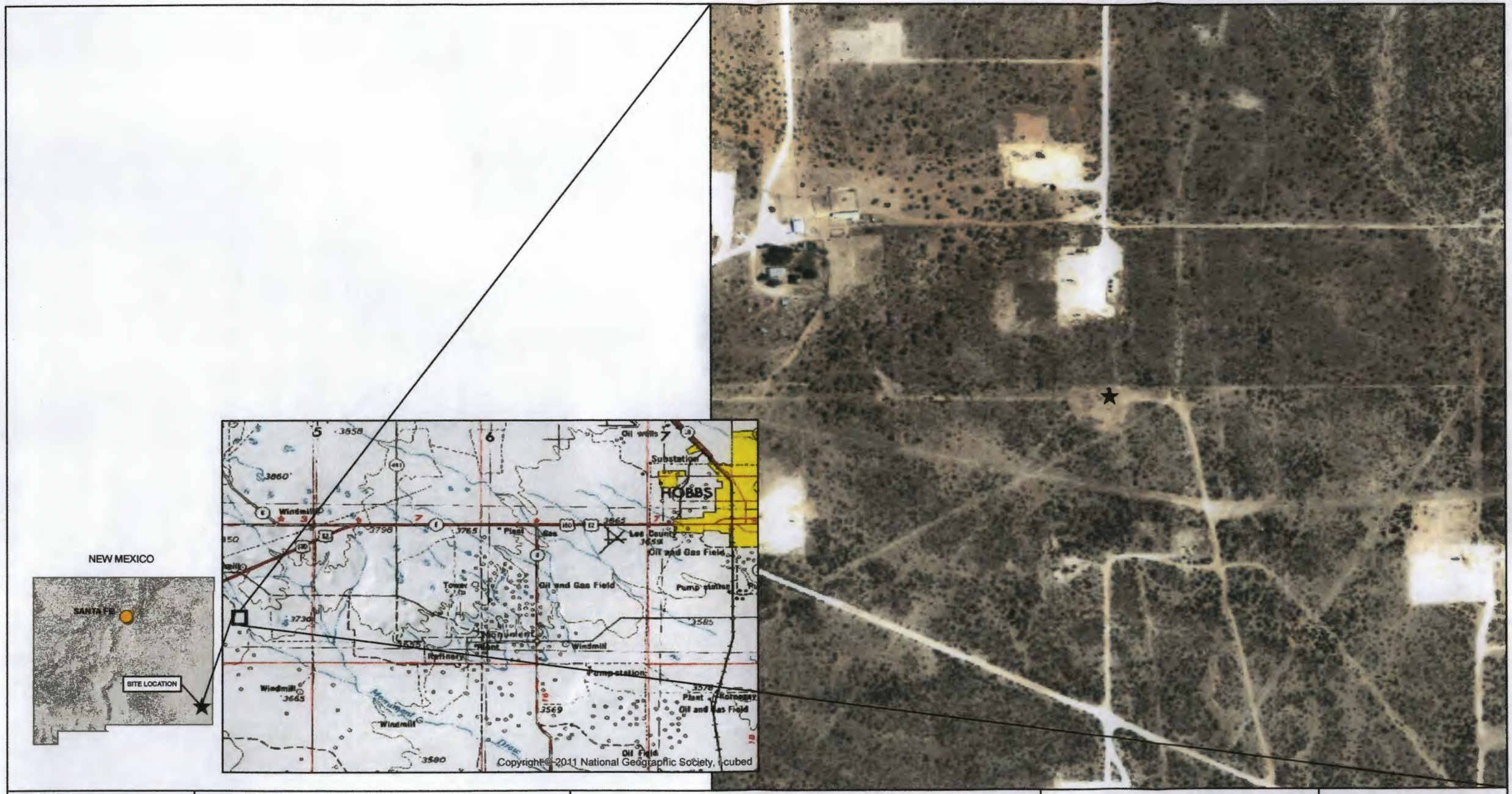
Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

* 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.

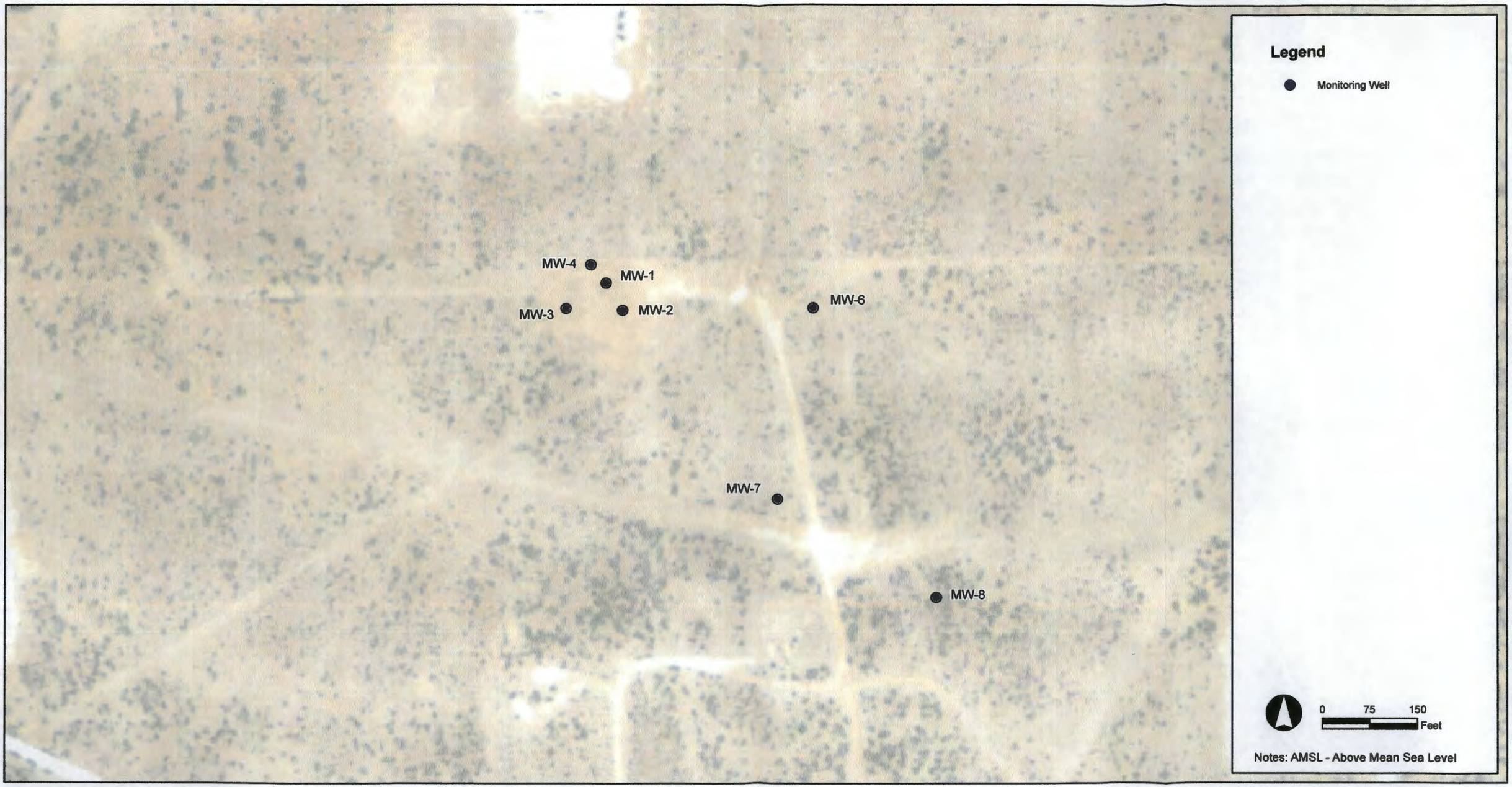
LNAPL = Light Non-Aqueous Phase Liquid

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	**J-4-2 PIPELINE RELEASE**	SITE LOCATION	FIGURE 1



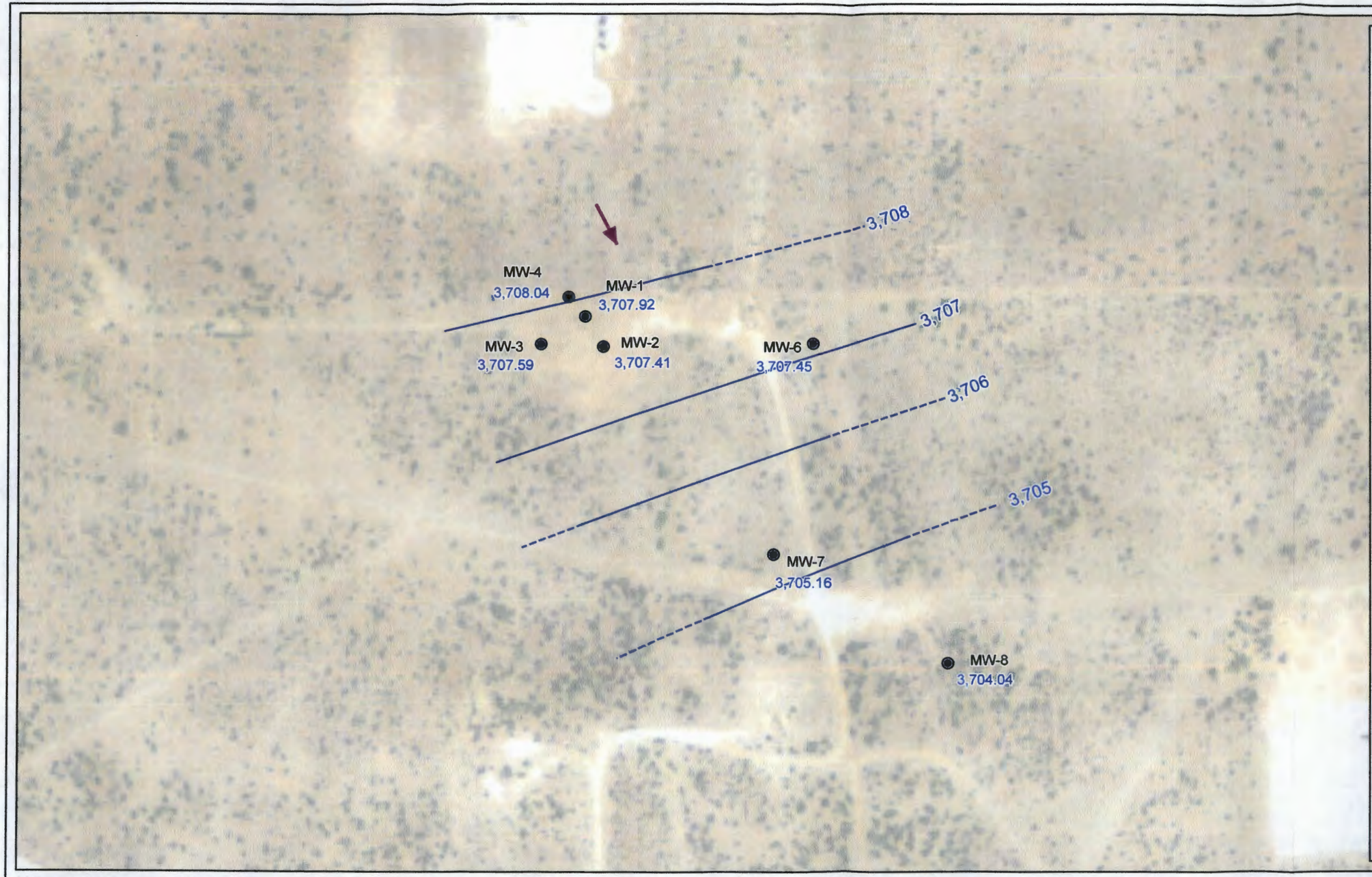
DESIGNED BY: C. Wasko
DRAWN BY: J. Clonts
SHEET CHK'D BY:
CROSS CHK'D BY:
APPROVED BY:
APPROVED BY:

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

J-4-2 PIPELINE RELEASE

SITE MAP

FIGURE
2



Legend

- Monitoring Well
- Groundwater Elevation Contour Line (feet AMSL)
- 3,710.33 Measured Groundwater Elevation (feet AMSL)
- Groundwater Flow Direction

0 75 150 Feet

Notes: AMSL - Above Mean Sea Level

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

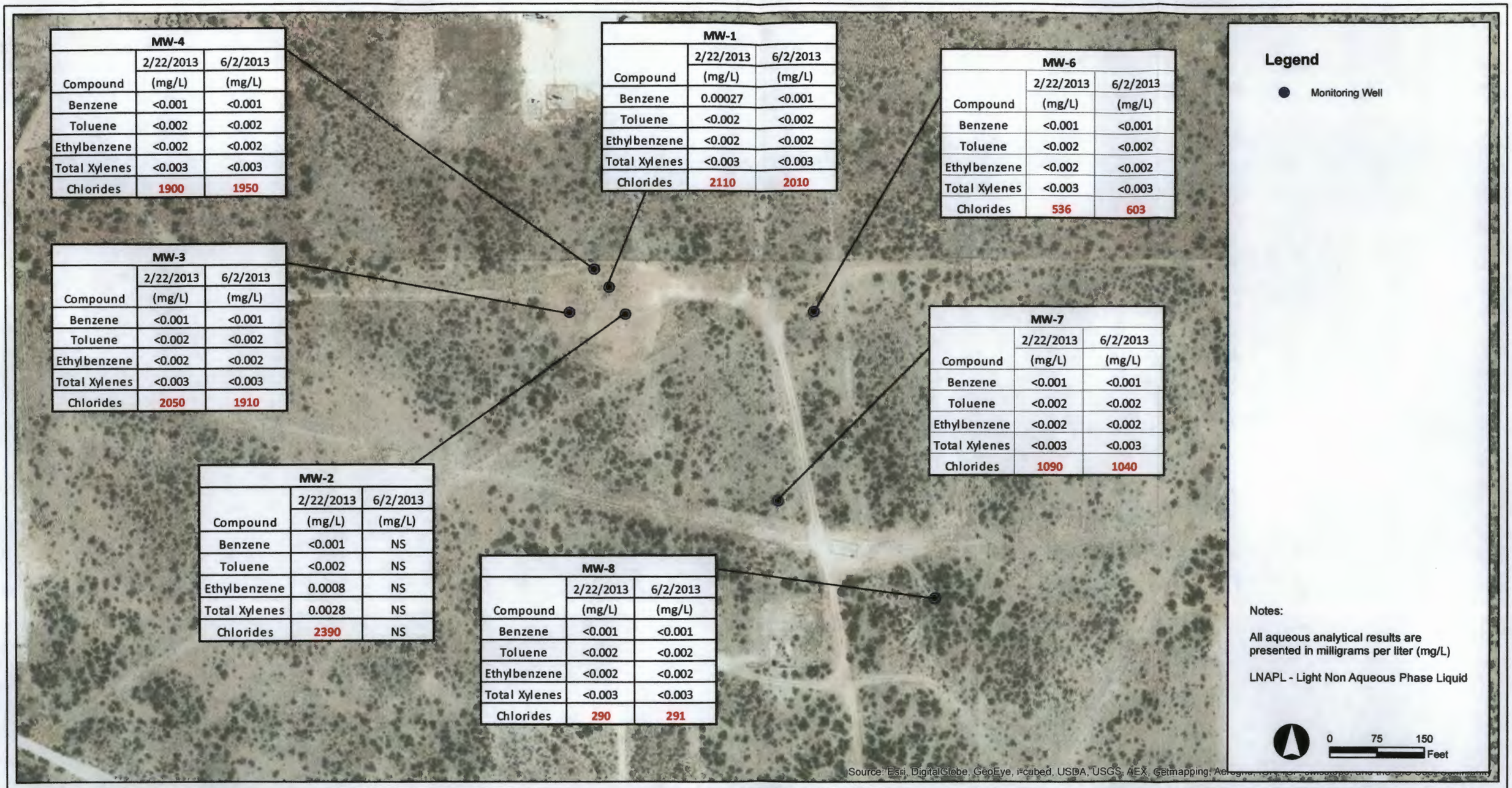
TASMAN GEOSCIENCES
Tasman Geosciences, LLC
6899 Pecos Street - Unit C
Denver, CO 80221
303 487 1228

J-4-2 PIPELINE RELEASE

Second Quarter 2013 Groundwater Monitoring Summary Report

GROUNWATER ELEVATION CONTOUR MAP (JULY 2, 2013)

FIGURE 3



MW-4		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	1900	1950

MW-1		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	0.00027	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	2110	2010

MW-6		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	536	603

MW-3		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	2050	1910

MW-7		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	1090	1040

MW-2		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	NS
Toluene	<0.002	NS
Ethylbenzene	0.0008	NS
Total Xylenes	0.0028	NS
Chlorides	2390	NS

MW-8		
Compound	2/22/2013 (mg/L)	6/2/2013 (mg/L)
Benzene	<0.001	<0.001
Toluene	<0.002	<0.002
Ethylbenzene	<0.002	<0.002
Total Xylenes	<0.003	<0.003
Chlorides	290	291

Legend

- Monitoring Well

Notes:

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

LNAPL - Light Non Aqueous Phase Liquid

0 75 150 Feet

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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

J-4-2 PIPELINE RELEASE

Second Quarter 2013 Groundwater Monitoring Summary Report

ANALYTICAL RESULTS MAP

FIGURE 4

Appendix A

Laboratory Analytical Report

Mountain States ACCUTEST LABORATORIES

06/15/13

Technical Report for

DCP Midstream, LP

TASMCOA:DCP J-4-2

RC-GN00 Project-390660601

Accutest Job Number: D46873

Sampling Date: 06/02/13

Report to:

Tasman Geosciencec 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: **35**

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.

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)

Sections: 1 2 3 4 5 6 7

Table of Contents

-1-

Sample Summary

DCP Midstream, LP

Job No: D46873

TASMCOA:DCP J-4-2
Project No: RC-GN00 Project-390660601

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
D46873-1	06/02/13	12:15	CW	06/06/13	AQ	Ground Water	MW-1
D46873-2	06/02/13	12:00	CW	06/06/13	AQ	Ground Water	MW-3
D46873-3	06/02/13	12:10	CW	06/06/13	AQ	Ground Water	MW-4
D46873-4	06/02/13	11:45	CW	06/06/13	AQ	Ground Water	MW-6
D46873-5	06/02/13	11:30	CW	06/06/13	AQ	Ground Water	MW-7
D46873-6	06/02/13	11:15	CW	06/06/13	AQ	Ground Water	MW-8
D46873-6D	06/02/13	11:15	CW	06/06/13	AQ	Water Dup/MSD	MW-8
D46873-6M	06/02/13	11:15	CW	06/06/13	AQ	Water Matrix Spike	MW-8
D46873-7	06/02/13	00:00	CW	06/06/13	AQ	Trip Blank Water	TRIP BLANK
D46873-8	06/02/13	00:00	CW	06/06/13	AQ	Water	DUP

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	DCP Midstream, LP	**Job No**	D46873
Site:	TASMCOA:DCP J-4-2	**Report Date**	6/12/2013 3:03:28 PM

On 06/06/2013, 7 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D46873 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:** V7V1127

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D46873-6MS, D46873-6MSD were used as the QC samples indicated.
- D46873-5: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.
- D46873-4: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.
- D46873-3: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

Wet Chemistry By Method EPA 300.0/SW846 9056

Matrix AQ **Batch ID:** GP10175

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D46873-6MS, D46873-6MSD 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: D46873
Account: DCP Midstream, LP
Project: TASMCOA:DCP J-4-2
Collected: 06/02/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D46873-1	**MW-1**					
Chloride		2010	50		mg/l	EPA 300.0/SW846 9056
D46873-2	**MW-3**					
Chloride		1910	50		mg/l	EPA 300.0/SW846 9056
D46873-3	**MW-4**					
Chloride		1950	50		mg/l	EPA 300.0/SW846 9056
D46873-4	**MW-6**					
Chloride		603	25		mg/l	EPA 300.0/SW846 9056
D46873-5	**MW-7**					
Chloride		1040	50		mg/l	EPA 300.0/SW846 9056
D46873-6	**MW-8**					
Chloride		291	25		mg/l	EPA 300.0/SW846 9056
D46873-7	**TRIP BLANK**					
No hits reported in this sample.						
D46873-8	**DUP**					
Chloride		1970	50		mg/l	EPA 300.0/SW846 9056

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-1
Lab Sample ID: D46873-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 06/02/13
Date Received: 06/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20616.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	112%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	91%		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:	D46873-1	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2010	50	mg/l	100	06/11/13 10:53	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	D46873-2	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20617.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	109%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	90%		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-3		
Lab Sample ID:	D46873-2	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1910	50	mg/l	100	06/11/13 11:04	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-4
Lab Sample ID: D46873-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 06/02/13
Date Received: 06/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20618.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	112%		62-130%
2037-26-5	Toluene-D8	101%		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

Client Sample ID:	MW-4		
Lab Sample ID:	D46873-3	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1950	50	mg/l	100	06/11/13 11:15	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	D46873-4	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20619.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	108%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	91%		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: D46873-4
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 06/02/13
Date Received: 06/06/13
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	603	25	mg/l	50	06/11/13 11:26	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	D46873-5	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3V24892.D	1	06/13/13	BR	n/a	n/a	V3V1467
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	114%		62-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	88%		69-130%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

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:	D46873-5	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1040	50	mg/l	100	06/11/13 11:38	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID: MW-8
Lab Sample ID: D46873-6
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 06/02/13
Date Received: 06/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20615.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	110%		62-130%
2037-26-5	Toluene-D8	100%		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

Client Sample ID:	MW-8		
Lab Sample ID:	D46873-6	**Date Sampled:**	06/02/13
Matrix:	AQ - Ground Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	291	25	mg/l	50	06/11/13 11:49	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	D46873-7	**Date Sampled:**	06/02/13
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TASMCOA:DCP J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20620.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	101%		62-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	91%		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: D46873-8
Matrix: AQ - Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 06/02/13
Date Received: 06/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V20621.D	1	06/07/13	JL	n/a	n/a	V7V1127
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	105%		62-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	91%		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:	D46873-8	**Date Sampled:**	06/02/13
Matrix:	AQ - Water	**Date Received:**	06/06/13
		Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1970	50	mg/l	100	06/11/13 12:00	SK	EPA 300.0/SW846 9056

RL = Reporting Limit

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 1

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 # D46873

Client / Reporting Information

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

Project Information

Project Name: DCP J-4-2
Street:
City: State:
Project #: RC - GN00 Project - 390660601
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name: DCP Midstream
Street Address:
City:
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
	MW-1		6/2/13	1215	CW	GW	4	3				1				X	X										01
	MW-2					GW	4	3				1				X	X				CHAPL						~~02~~
	MW-3		6/2/13	1200		GW	4	3				1				X	X										02
	MW-4			1210		GW	4	3				1				X	X										03
	MW-6			1145		GW	4	3				1				X	X										04
	MW-7			1130		GW	4	3				1				X	X										05
	MW-8			1115		GW	4	3				1				X	X										06
	MS/MSD MW-8			1115		GW	5X	~~4S~~										X									06MS/MSD
	Trip Blank					GW	2	2								X											07
	DUP					GW	4	3				1				X	X										08

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

please cc cwasko@tasman-geo.com

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		6/5/13 1400		2		2
3	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.
			5			3.0

5.1 5

D46873: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D46873 **Client:** TASMAN **Immediate Client Services Action Required:** No

Date / Time Received: 6/6/2013 10:10:00 AM **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:	☑		☐	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

D46873: Chain of Custody
Page 2 of 2

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: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1127-MB	7V20611.D	1	06/07/13	JL	n/a	n/a	V7V1127

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

D46873-1, D46873-2, D46873-3, D46873-4, D46873-6, D46873-7, D46873-8

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	96%	62-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	93%	69-130%

Method Blank Summary

Job Number: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V1467-MB	3V24879.D	1	06/13/13	BR	n/a	n/a	V3V1467

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

D46873-5

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	102%	62-130%
2037-26-5	Toluene-D8	106%	70-130%
460-00-4	4-Bromofluorobenzene	92%	69-130%

Blank Spike Summary

Job Number: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V1127-BS	7V20612.D	1	06/07/13	JL	n/a	n/a	V7V1127

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

D46873-1, D46873-2, D46873-3, D46873-4, D46873-6, D46873-7, D46873-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.0	100	70-130
100-41-4	Ethylbenzene	50	48.1	96	70-130
108-88-3	Toluene	50	49.4	99	70-130
1330-20-7	Xylene (total)	150	150	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	92%	62-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	96%	69-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V1467-BS	3V24880.D	1	06/13/13	BR	n/a	n/a	V3V1467

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

D46873-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	48.3	97	70-130
100-41-4	Ethylbenzene	50	50.2	100	70-130
108-88-3	Toluene	50	50.8	102	70-130
1330-20-7	Xylene (total)	150	146	97	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	62-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	100%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D46873-6MS	7V20613.D	1	06/07/13	JL	n/a	n/a	V7V1127
D46873-6MSD	7V20614.D	1	06/07/13	JL	n/a	n/a	V7V1127
D46873-6	7V20615.D	1	06/07/13	JL	n/a	n/a	V7V1127

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

D46873-1, D46873-2, D46873-3, D46873-4, D46873-6, D46873-7, D46873-8

CAS No.	Compound	D46873-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50	52.1	104	50.6	101	3	62-130/30
100-41-4	Ethylbenzene	ND		50	49.1	98	47.6	95	3	63-130/30
108-88-3	Toluene	ND		50	50.1	100	48.5	97	3	60-130/30
1330-20-7	Xylene (total)	ND		150	150	100	147	98	2	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D46873-6	Limits
17060-07-0	1,2-Dichloroethane-D4	98%	97%	110%	62-130%
2037-26-5	Toluene-D8	98%	97%	100%	70-130%
460-00-4	4-Bromofluorobenzene	97%	97%	92%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D46873
Account: DCPMCODN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D46959-12MS	3V24896.D	5	06/13/13	BR	n/a	n/a	V3V1467
D46959-12MSD	3V24897.D	5	06/14/13	BR	n/a	n/a	V3V1467
D46959-12	3V24895.D	5	06/13/13	BR	n/a	n/a	V3V1467

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

D46873-5

CAS No.	Compound	D46959-12 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	3.4	J	250	253	100	254	100	0	62-130/30
100-41-4	Ethylbenzene	ND		250	253	101	256	102	1	63-130/30
108-88-3	Toluene	ND		250	255	102	259	104	2	60-130/30
1330-20-7	Xylene (total)	ND		750	754	101	760	101	1	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D46959-12	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	104%	109%	62-130%
2037-26-5	Toluene-D8	105%	104%	107%	70-130%
460-00-4	4-Bromofluorobenzene	97%	100%	90%	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: D46873
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP10175/GN20551	0.050	0.0	mg/l	20	20.8	104.0	90-110%
Chloride	GP10175/GN20551	0.50	0.0	mg/l	20	19.7	98.5	90-110%
Nitrogen, Nitrate	GP10175/GN20551	0.010	0.0	mg/l	4.52	4.45	98.5	90-110%
Nitrogen, Nitrite	GP10175/GN20551	0.0040	0.0	mg/l	6.09	5.98	98.2	90-110%
Sulfate	GP10175/GN20551	0.50	0.0	mg/l	30	29.8	99.3	90-110%

Associated Samples:
Batch GP10175: D46873-1, D46873-2, D46873-3, D46873-4, D46873-5, D46873-6, D46873-8
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D46873
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP10175/GN20551	D46873-6	mg/l	0.0	125	128	102.4	80-120%
Chloride	GP10175/GN20551	D46873-6	mg/l	291	500	799	101.6	80-120%
Nitrogen, Nitrate	GP10175/GN20551	D46873-6	mg/l	1.7	28.3	30.0	100.2	80-120%
Nitrogen, Nitrite	GP10175/GN20551	D46873-6	mg/l	0.0	15.2	13.9	91.3	80-120%
Sulfate	GP10175/GN20551	D46873-6	mg/l	80.4	500	578	99.5	80-120%

Associated Samples:
Batch GP10175: D46873-1, D46873-2, D46873-3, D46873-4, D46873-5, D46873-6, D46873-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D46873
Account: DCPMCODN - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Bromide	GP10175/GN20551	D46873-6	mg/l	0.0	125	130	1.6	20%
Chloride	GP10175/GN20551	D46873-6	mg/l	291	500	802	0.4	20%
Nitrogen, Nitrate	GP10175/GN20551	D46873-6	mg/l	1.7	28.3	29.5	1.7	20%
Nitrogen, Nitrite	GP10175/GN20551	D46873-6	mg/l	0.0	15.2	14.6	4.9	20%
Sulfate	GP10175/GN20551	D46873-6	mg/l	80.4	500	578	0.0	20%

Associated Samples:
Batch GP10175: D46873-1, D46873-2, D46873-3, D46873-4, D46873-5, D46873-6, D46873-8
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Appendix B

Historical Groundwater Analytical Results

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	2/1/2006	0.139	0.326	0.34	0.31	NA	
MW-1	9/1/2006	0.0487	0.0058	0.0284	0.0694	NA	
MW-1	9/25/2006	**0.042**	0.025	0.0048	0.061		
MW-1	9/25/2006	**0.056**	0.032	0.0068	0.078		
MW-1	12/1/2006	LNAPL	LNAPL	LNAPL	LNAPL	NA	
MW-1	3/1/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/1/2007	LNAPL	LNAPL	0.004	LNAPL	LNAPL	
MW-1	9/1/2007	0.011	0.003	0.04	0.098	NA	
MW-1	1/1/2007	0.107	0.024	0.014	0.39	NA	
MW-1	11/30/2007	**0.107**	0.0243	0.0401	0.39		
MW-1	3/1/2008	0.037	0.0155	LNAPL	0.215	NA	
MW-1	3/20/2008	**0.0416**	0.0186	0.0177	0.26		
MW-1	6/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	NA	
MW-1	9/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/11/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-1	5/18/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	9/24/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/20/2009	<0.002	<0.002	.0014J	0.0418	2680	
MW-1	12/20/2009	<0.00050	<0.00043	0.0014	0.0418		
MW-1	3/10/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/13/2010	0.0016	<0.001	<0.0003	0.0095	1800	
MW-1	6/14/2010	0.0016	<1.0	<0.30	-		
MW-1	9/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/8/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	9/16/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/7/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/11/2012	<0.001	<0.002	<0.002	<0.004	2970	
MW-1	6/5/2012	<0.001	<0.002	<0.002	<0.003	2480	
MW-1	9/7/2012	<0.001	<0.002	<0.002	<0.003	2060	
MW-1	12/4/2012	<0.001	<0.002	<0.002	<0.003	2240	Duplicate sample collected
MW-1	2/22/2103	0.00027	<0.002	<0.002	<0.003	2110	
MW-1	6/2/2013	<0.001	<0.002	<0.002	<0.003	2010	Duplicate sample collected

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	2/1/2006	0.026	0.038	0.04	0.335		
MW-2	9/1/2006	0.0045	<0.001	0.0027	0.0471		
MW-2	12/1/2006	0.006	0.003	0.003	0.0613		
MW-2	3/1/2007	0.188	0.006	0.026	0.125		
MW-2	6/1/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/1/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	11/1/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	11/30/2007	0.006	0.0033	0.0025	0.0613		
MW-2	3/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	3/20/2008	**0.188**	0.0062	0.0262	0.125		
MW-2	6/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/1/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	3/11/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	5/18/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/24/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/20/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	3/10/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	6/13/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/29/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/8/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	3/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/16/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/7/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	3/11/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	6/5/2012	0.00043	<0.002	0.0024	0.0069	2450	
MW-2	9/7/2012	<0.001	<0.002	<0.002	<0.003	2280	
MW-2	12/4/2012	<0.001	<0.002	0.0008	0.0028	2440	
MW-2	2/22/2103	<0.001	<0.002	<0.002	<0.003	2390	Duplicate sample collected
MW-2	6/2/2013 [5]	NS	NS	NS	NS	NS	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	2/1/2006	<0.001	<0.001	<0.001	<0.002	NA	
MW-3	9/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-3	9/25/2006	<0.23	<0.54	<0.48	<1.1		
MW-3	3/14/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-3	11/30/2007	0.0011	<0.00048	<0.00045	<0.0060		
MW-3	12/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-3	3/1/2007	<0.002	<0.002	<0.002	<0.006	7800	
MW-3	6/1/2007	0.003	0.005	0.002	0.01	10800	
MW-3	9/1/2007	<0.001	<0.001	<0.001	<0.001	NA	
MW-3	11/1/2007	0.0011J	<0.002	<0.002	<0.006	NA	
MW-3	3/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-3	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-3	6/1/2008	<0.002	<0.002	<0.002	0.007	NA	
MW-3	9/1/2008	<0.002	<0.002	<0.002	<0.006	4070	
MW-3	12/1/2008	<0.002	<0.002	<0.002	<0.006	2625	
MW-3	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-3	3/11/2009	<0.002	<0.002	<0.002	<0.002	2860	
MW-3	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-3	5/18/2009	<0.002	<0.002	<0.002	<0.002	3270	
MW-3	5/18/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-3	9/24/2009	<0.002	<0.002	<0.002	<0.006	3195	
MW-3	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-3	12/20/2009	<0.002	<0.002	<0.002	<0.006	3605	
MW-3	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-3	3/10/2010	<0.001	<0.002	<0.002	<0.004	3030	
MW-3	3/10/2010	<0.40	<1.0	<1.0	-		
MW-3	6/13/2010	<0.0003	<0.001	<0.0003	<0.0006	2130	
MW-3	6/13/2010	<0.30	<1.0	<0.30	-		
MW-3	9/29/2010	<0.001	<0.002	<0.002	<0.004	2220	
MW-3	9/29/2010	<0.00030	<0.0010	<0.00030	-		
MW-3	12/8/2010	<0.001	<0.002	<0.002	<0.004	2530	
MW-3	12/8/2010	<0.00030	<0.0010	<0.00030	-		
MW-3	3/30/2011	<0.001	<0.002	<0.002	<0.002	2230	
MW-3	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-3	6/11/2011	<0.001	<0.002	<0.002	<0.004	2210	
MW-3	6/20/2011	<0.00025	<0.0010	<0.00050	<0.0020		
MW-3	9/16/2011	<0.001	<0.002	<0.002	<0.004	2190	Duplicate sample collected
MW-3	12/7/2011	<0.001	<0.002	<0.002	<0.004	2230	Duplicate sample collected
MW-3	3/11/2012	<0.001	<0.002	<0.002	<0.004	2210	
MW-3	6/5/2012	<0.001	<0.002	<0.002	<0.003	2080	
MW-3	9/7/2012	<0.001	<0.002	<0.002	<0.003	2180	
MW-3	12/4/2012	<0.001	<0.002	<0.002	<0.003	2170	
MW-3	2/22/2103	<0.001	<0.002	<0.002	<0.003	2050	
MW-3	6/2/2013	<0.001	<0.002	<0.002	<0.003	1910	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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-4	2/1/2006	NI	NI	NI	NI	NA	
MW-4	6/1/2006	0.0086	.00093J	0.0092	0.0061	NA	
MW-4	9/27/2006	0.0086	0.0092	0.00093	0.0061		
MW-4	12/1/2006	0.025	0.005	<0.002	0.0065	NA	
MW-4	3/1/2007	0.004	6E-04	<0.002	0.003	1300	
MW-4	3/14/2007	0.0044	0.0006	<0.00048	0.0032		
MW-4	6/1/2007	<0.001	<0.001	<0.001	<0.001	1380	
MW-4	9/1/2007	<0.001	<0.001	<0.001	<0.001	NA	
MW-4	11/1/2007	<0.002	<0.002	<0.002	<0.006	NA	
MW-4	11/30/2007	<0.00046	<0.00048	<0.00045	<0.0060		
MW-4	3/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-4	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-4	6/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-4	9/1/2008	<0.002	<0.002	<0.002	.0041J	1440	
MW-4	12/1/2008	<0.002	<0.002	<0.002	<0.006	70	
MW-4	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-4	3/11/2009	<0.002	<0.002	<0.002	<0.002	1390	
MW-4	5/18/2009	<0.002	<0.002	<0.002	<0.002	1440	
MW-4	5/18/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-4	9/24/2009	<0.002	<0.002	<0.002	<0.006	1490	
MW-4	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-4	12/20/2009	<0.002	<0.002	<0.002	<0.006	1740	
MW-4	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-4	3/10/2010	<0.001	<0.002	<0.002	<0.004	1950	
MW-4	3/10/2010	<0.40	<1.0	<1.0	-		
MW-4	6/13/2010	<0.0003	<0.001	<0.0003	<0.0006	2150	
MW-4	6/13/2010	<0.30	<1.0	<0.30	-		
MW-4	9/29/2010	<0.001	<0.002	<0.002	<0.004	2130	
MW-4	9/29/2010	<0.00030	<0.0010	<0.00030	-		
MW-4	12/8/2010	<0.001	<0.002	<0.002	<0.004	2740	
MW-4	12/8/2010	<0.00030	<0.0010	<0.00030	-		
MW-4	3/30/2011	<0.001	<0.002	<0.002	<0.002	2300	
MW-4	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-4	6/11/2011	<0.001	<0.002	<0.002	<0.004	2230	
MW-4	6/20/2011	<0.00025	<0.0010	<0.00050	<0.0020		
MW-4	9/16/2011	<0.001	<0.002	<0.002	<0.004	1980	
MW-4	12/7/2001	<0.001	<0.002	<0.002	<0.004	2010	
MW-4	3/11/2012	<0.001	<0.002	<0.002	<0.004	1960	Duplicate sample collected
MW-4	6/5/2012	<0.001	<0.002	<0.002	<0.003	1790	Duplicate sample collected
MW-4	9/7/2012	<0.001	<0.002	<0.002	<0.003	1910	Duplicate sample collected
MW-4	12/4/2012	<0.001	<0.002	<0.002	<0.003	1940	
MW-4	2/22/2103	<0.001	<0.002	<0.002	<0.003	1900	
MW-4	6/2/2013	<0.001	<0.002	<0.002	<0.003	1950	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	2/1/2006	NI	NI	NI	NI	NA	
MW-6	9/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-6	9/27/2006	<0.23	<0.54	<0.48	<1.1		
MW-6	12/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-6	3/1/2007	<0.002	<0.002	<0.002	<0.006	669	
MW-6	3/14/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-6	6/1/2007	<0.001	<0.001	<0.001	<0.001	544	
MW-6	9/1/2007	<0.001	<0.001	<0.001	<0.001	NA	
MW-6	11/1/2007	<0.002	<0.002	<0.002	<0.006	NA	
MW-6	11/30/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-6	3/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-6	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	6/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-6	9/1/2008	<0.002	<0.002	<0.002	<0.006	537	
MW-6	12/1/2008	<0.002	<0.002	<0.002	<0.002	391	
MW-6	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	3/11/2009	<0.002	<0.002	<0.002	<0.002	363	
MW-6	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	5/18/2009	<0.002	<0.002	<0.002	<0.006	383	
MW-6	5/18/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-6	9/24/2009	<0.002	<0.002	<0.002	<0.006	373	
MW-6	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-6	12/20/2009	<0.002	<0.002	<0.002	<0.006	1090	
MW-6	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-6	3/10/2010	NA	NA	NA	NA	NA	
MW-6	6/13/2010	<0.0003	<0.001	<0.0003	<0.006	533	
MW-6	6/13/2010	<0.30	<1.0	<0.30	-		
MW-6	9/29/2010	<0.001	<0.002	<0.002	<0.004	445	
MW-6	9/29/2010	<0.00030	<0.0010	<0.00030	-		
MW-6	12/8/2010	<0.001	<0.002	<0.002	<0.004	513	
MW-6	12/8/2010	<0.00030	<0.0010	<0.00030	-		
MW-6	3/30/2011	<0.001	<0.002	<0.002	<0.002	491	
MW-6	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-6	6/11/2011	<0.001	<0.002	<0.002	<0.004	503	
MW-6	6/20/2011	<0.00025	<0.0010	<0.00050	<0.0020		
MW-6	9/16/2011	<0.001	<0.002	<0.002	<0.004	476	
MW-6	12/7/2011	<0.001	<0.002	<0.002	<0.004	526	
MW-6	3/11/2012	<0.001	<0.002	<0.002	<0.004	522	
MW-6	6/5/2012	<0.001	<0.002	<0.002	<0.003	532	
MW-6 [4]	9/7/2012	NS	NS	NS	NS	NS	
MW-6	12/4/2012	<0.001	<0.002	<0.002	<0.003	578	
MW-6	2/22/2103	<0.001	<0.002	<0.002	<0.003	536	
MW-6	6/2/2013	<0.001	<0.002	<0.002	<0.003	603	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	2/1/2006	NI	NI	NI	NI	NA	
MW-7	6/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-7	9/27/2006	<0.23	<0.54	<0.48	<1.1		
MW-7	12/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-7	3/1/2007	<0.002	<0.002	<0.002	<0.006	1230	
MW-7	3/14/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-7	6/1/2007	<0.001	<0.001	<0.001	0.003	1150	
MW-7	9/1/2007	<0.001	<0.001	<0.001	<0.001	NA	
MW-7	11/1/2007	<0.002	<0.002	<0.002	<0.006	NA	
MW-7	11/30/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-7	3/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-7	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	6/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-7	9/1/2008	<0.002	<0.002	<0.002	<0.006	1180	
MW-7	12/1/2008	<0.002	<0.002	<0.002	<0.002	1050	
MW-7	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	3/11/2009	<0.002	<0.002	<0.002	<0.002	944	
MW-7	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	5/18/2009	<0.002	<0.002	<0.002	<0.006	1090	
MW-7	5/18/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-7	9/24/2009	<0.002	<0.002	<0.002	<0.006	1140	
MW-7	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-7	12/20/2009	<0.002	<0.002	<0.002	<0.006	1440	
MW-7	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-7	3/10/2010	<0.001	<0.002	<0.002	<0.004	1230	
MW-7	3/10/2010	<0.40	<1.0	<1.0	-		
MW-7	6/13/2010	<0.0003	<0.001	<0.0003	<0.006	1280	
MW-7	6/13/2010	<0.30	<1.0	<0.30	-		
MW-7	9/29/2010	<0.001	<0.002	<0.002	<0.004	1210	
MW-7	9/29/2010	<0.00030	<0.0010	<0.00030	-		
MW-7	12/8/2010	<0.001	<0.002	<0.002	<0.004	1180	
MW-7	12/8/2010	<0.00030	<0.0010	<0.00030	-		
MW-7	3/30/2011	<0.001	<0.002	<0.002	<0.002	1210	
MW-7	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-7	6/11/2011	<0.001	<0.002	<0.002	<0.004	1210	
MW-7	6/20/2011	<0.00025	<0.0010	<0.00050	<0.0020		
MW-7	9/16/2011	<0.001	<0.002	<0.002	<0.004	1170	
MW-7	12/7/2011	<0.001	<0.002	<0.002	<0.004	1200	
MW-7	3/11/2012	<0.001	<0.002	<0.002	<0.004	1220	
MW-7	6/5/2012	<0.001	<0.002	<0.002	<0.003	1120	
MW-7	9/7/2012	<0.001	<0.002	<0.002	<0.003	1140	
MW-7	12/4/2012	<0.001	<0.002	<0.002	<0.003	1120	
MW-7	2/22/2103	<0.001	<0.002	<0.002	<0.003	1090	
MW-7	6/2/2013	<0.001	<0.002	<0.002	<0.003	1040	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
J-4-2 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	12/1/2006	NI	NI	NI	NI	NA	
MW-8	9/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-8	9/27/2006	<0.23	<0.54	<0.48	<1.1		
MW-8	12/1/2006	<0.002	<0.002	<0.002	<0.006	NA	
MW-8	3/1/2007	<0.002	<0.002	<0.002	<0.006	609	
MW-8	3/14/2007	<0.00023	<0.00054	<0.00048	<0.0011		
MW-8	3/14/2007	-	-	-	-		
MW-8	6/1/2007	<0.001	<0.001	<0.001	<0.001	617	
MW-8	9/1/2007	<0.001	<0.001	<0.001	<0.001	NA	
MW-8	11/1/2007	<0.002	<0.002	<0.002	<0.006	NA	
MW-8	11/30/2007	<0.00046	<0.00048	<0.00045	<0.0060		
MW-8	3/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-8	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-8	6/1/2008	<0.002	<0.002	<0.002	<0.006	NA	
MW-8	9/1/2008	<0.002	<0.002	<0.002	<0.006	735	
MW-8	12/1/2008	<0.002	<0.002	<0.002	<0.002	480	
MW-8	12/3/2008	<0.00046	<0.00048	<0.00045	<0.0014		
MW-8	3/11/2009	<0.002	<0.002	<0.002	<0.002	417	
MW-8	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-8	5/18/2009	<0.002	<0.002	<0.002	<0.006	378	
MW-8	5/18/2009	<0.00046	<0.00048	<0.00045	<0.0014		
MW-8	9/24/2009	<0.002	<0.002	<0.002	<0.006	403	
MW-8	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-8	12/20/2009	<0.002	<0.002	<0.002	<0.006	308	
MW-8	12/20/2009	<0.00050	<0.00043	<0.00055	<0.0017		
MW-8	3/10/2010	<0.001	<0.002	<0.002	<0.004	414	
MW-8	3/10/2010	<0.40	<1.0	<1.0	-		
MW-8	6/13/2010	<0.0003	<0.001	<0.0003	<0.006	415	
MW-8	6/13/2010	<0.30	<1.0	<0.30	-		
MW-8	9/29/2010	<0.001	<0.002	<0.002	<0.004	347	
MW-8	9/29/2010	<0.00030	<0.0010	<0.00030	-		
MW-8	12/8/2010	<0.001	<0.002	<0.002	<0.004	336	
MW-8	12/8/2010	<0.00030	<0.0010	<0.00030	-		
MW-8	3/30/2011	<0.001	<0.002	<0.002	<0.002	383	
MW-8	3/30/2011	<0.00030	<0.0010	<0.00030	<0.00060		
MW-8	6/11/2011	<0.001	<0.002	<0.002	<0.004	454	
MW-8	6/20/2011	<0.00025	<0.0010	<0.00050	<0.0020		
MW-8	9/16/2011	<0.001	<0.002	<0.002	<0.004	368	
MW-8	12/7/2011	<0.001	<0.002	<0.002	<0.004	348	
MW-8	3/11/2012	<0.001	<0.002	<0.002	<0.004	345	
MW-8	6/5/2012	<0.001	<0.002	<0.002	<0.003	316	
MW-8	9/7/2012	<0.001	<0.002	<0.002	<0.003	308	
MW-8	12/4/2012	<0.001	<0.002	<0.002	<0.003	304	
MW-8	2/22/2013	<0.001	<0.002	<0.002	<0.003	290	
MW-8	6/2/2013	<0.001	<0.002	<0.002	<0.003	291	

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.) Monitoring well location MW-5 was not installed due geologic refusal that was encountered during drilling activities.

3.) Data presented for all other well locations includes previous four sampling events, when available.

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

LNAPL = Light Non-Aqueous Phase Liquid

mg/L = milligrams per liter.