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RECEIVED OOD

February 26, 2014

2014 FEB 28 A 11: 13

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

**RE: 4th 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 4th 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

Fourth 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

January 21, 2014

Table of Contents

1.	Introduction	1
2.	Site Location and Background.....	1
3.	Groundwater Monitoring.....	1
3.1	Groundwater and LNAPL Elevation Monitoring.....	2
3.2	Groundwater Quality Monitoring	2
3.3	Data Quality Assurance / Quality Control	2
4.	Remediation Activities	3
4.1	LNAPL Collection Bailer	3
4.2	Vacuum Enhanced LNAPL Recovery	3
4.3	LNAPL Trends	3
5.	Conclusions	5
6.	Recommendations	5

Tables

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

Figures

1	Site Location
2	Site Map
3	Groundwater Elevation Contour Map – December 3, 2013
4	Analytical Results Map – December 3, 2013

Appendices

A	Historical Groundwater Analytical Results
B	Laboratory Analytical Results

1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the fourth 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 December 3, 2013 with the purpose of monitoring groundwater flow, 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/groundwater elevation versus time 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 fourth 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 of groundwater elevation at the Site. During the fourth 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 fourth quarter 2013 groundwater elevation contour map is illustrated in Figure 3. Groundwater elevations ranged from 3,703.64 feet AMSL at monitoring well MW-8 to 3,707.54 feet AMSL at monitoring well MW-4. As illustrated in Figure 3, groundwater flow at the Site generally trends to the southeast with a gradient of approximately 0.0051 foot per foot between monitoring wells MW-4 and MW-8.

3.2 Groundwater Quality Monitoring

Groundwater level and total well depth was 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, packed in an ice-filled cooler, and maintained at approximately four degrees Celsius ($^{\circ}\text{C}$) 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 seven wells and were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B, and chloride by USEPA Method 300.

Table 2 summarizes BTEX and chloride concentrations in groundwater samples collected during the reporting period in addition to concentrations from the previous four quarters. Historical analytical results up to and including the December 2013 event are contained in Appendix A. Laboratory analytical reports for the fourth quarter event are included in Appendix B. Analytical results are summarized in Figure 4. During the fourth quarter 2013, BTEX concentrations were below laboratory detection limits at the seven Site sample locations. Chloride was detected in all of the monitoring wells with concentrations ranging from 345 milligrams per liter (mg/L) in MW-8 to 2,370 mg/L in MW-2.

3.3 Data Quality Assurance / Quality Control

A trip blank, matrix spike / 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 target analytes.

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

LNAPL has historically been detected in monitoring wells MW-1 and MW-2. However, LNAPL has not been detected in MW-1 since December 2011 and LNAPL was not detected in MW-2 during the reporting period. Site remediation activities and LNAPL trends are discussed further in the following subsections.

4.1 LNAPL Collection Bailer

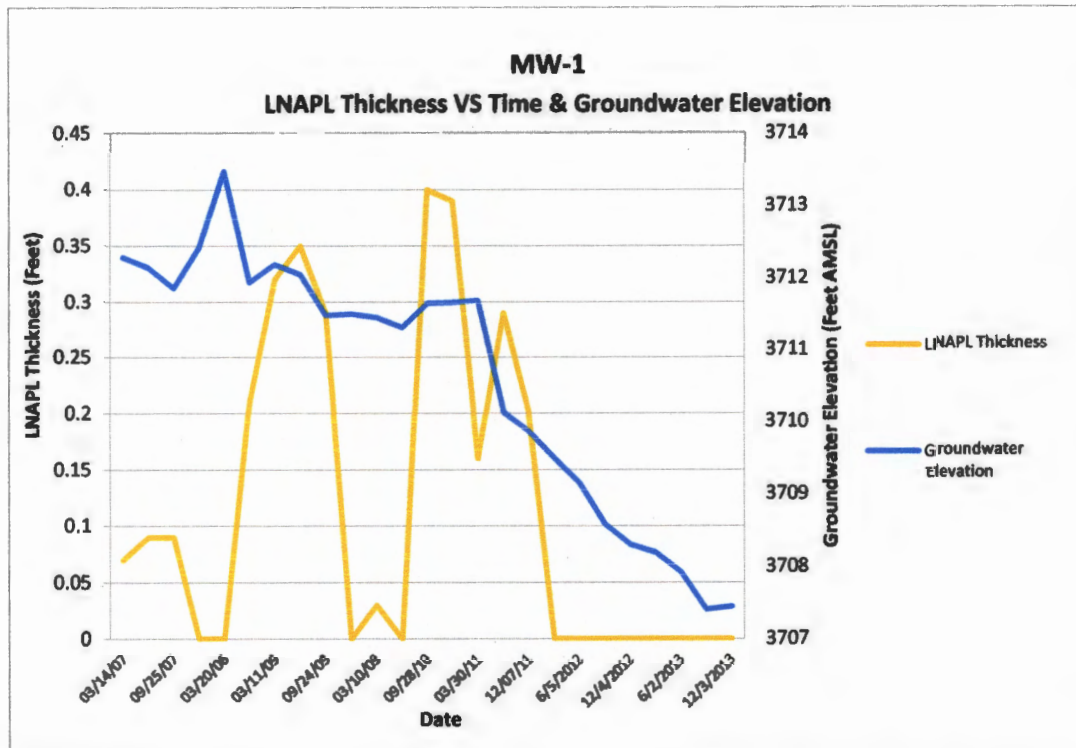
The LNAPL passive recovery bailer was removed from MW-2 during the second quarter 2013 to allow for LNAPL recharge and to obtain an accurate thickness of free phase hydrocarbons within the well. During the fourth quarter, LNAPL was not observed in MW-2 and the LNAPL passive recovery bailer has not been re-deployed in that well.

4.2 Vacuum Enhanced LNAPL Recovery

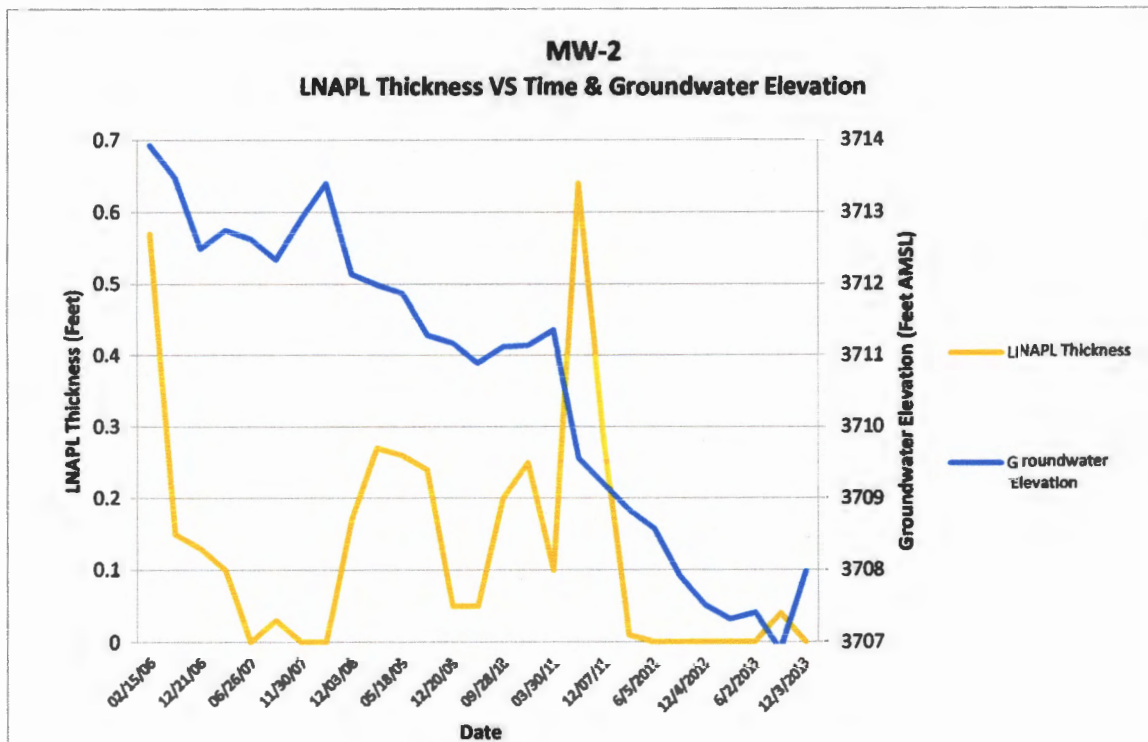
During the fourth quarter 2013 monitoring event, Tasman conducted a vacuum enhanced fluid recovery (EFR) event at MW-2. Approximately 1,260 gallons of groundwater was recovered during the approximate 8-hour event and was subsequently disposed of at the Cooper Disposal Facility in Hobbs, New Mexico.

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. However, LNAPL was not detected in either well during the fourth quarter 2013 event.



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 7 sampled locations during the reporting period.

Groundwater elevations continue to exhibit a declining trend at the Site and the fourth quarter monitoring event did not deviate significantly from that observation. Ongoing quarterly groundwater sampling will provide for continued monitoring of Site conditions, BTEX concentrations, and LNAPL trends.

6. Recommendations

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

- Continued quarterly groundwater elevation collection and groundwater sampling at the monitoring locations illustrated on Figure 2.
- Discontinue quarterly EFR activities at the Site.

Tables

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

Location	Date	Depth to Groundwater (feet)	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	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-1	9/10/2013	33.04			43.05	3740.45	3707.41	-0.51
MW-1	12/3/2013	33.00			43.05	3740.45	3707.45	0.04
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-2	9/10/2013	33.73	33.69	0.04	43.30	3740.62	3706.92	-0.49
MW-2	12/3/2013	33.64			43.30	3740.62	3706.98	0.06
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-3	9/10/2013	32.30			35.20	3739.39	3707.09	-0.50
MW-3	12/3/2013	32.26			35.20	3739.39	3707.13	0.04
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-4	9/10/2013	32.69			37.95	3740.24	3707.55	-0.49
MW-4	12/3/2013	32.70			38.95	3740.24	3707.54	-0.01
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-6	9/10/2013	33.07			34.31	3739.96	3706.89	-0.56
MW-6	12/3/2013	33.07			35.31	3739.96	3706.89	0.00
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-7	9/10/2013	36.07			40.41	3740.73	3704.66	-0.50
MW-7	12/3/2013	36.09			40.41	3740.73	3704.64	-0.02
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
MW-8	9/10/2013	33.70			38.58	3737.32	3703.62	-0.42
MW-8	12/3/2013	33.68			38.58	3737.32	3703.64	0.02
Average change in groundwater elevation since the previous monitoring event								0.02

Notes:

Depths measured from the north edge of the well casing.

Total depths were collected and recorded during the fourth quarter 2013 monitoring event.

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). 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.

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 to 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
FOURTH 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	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-1	9/10/2013	<0.001	<0.002	<0.002	<0.003	1900	Duplicate sample collected
MW-1	12/3/2013	<0.001	<0.002	<0.002	<0.003	2090	Duplicate sample collected
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	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	9/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/3/2013	<0.001	<0.002	<0.002	<0.003	2370	
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-3	9/10/2013	<0.001	<0.002	<0.002	<0.003	1730	
MW-3	12/3/2013	<0.001	<0.002	<0.002	<0.003	1860	
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-4	9/10/2013	<0.001	<0.002	<0.002	<0.003	1860	
MW-4	12/3/2013	<0.001	<0.002	<0.002	<0.003	2250	
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-6	9/10/2013	<0.001	<0.002	<0.002	<0.003	619	
MW-6	12/3/2013	<0.001	<0.002	<0.002	<0.003	674	
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-7	9/10/2013	<0.001	<0.002	<0.002	<0.003	1050	
MW-7	12/3/2013	<0.001	<0.002	<0.002	<0.003	1150	
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	
MW-8	9/10/2013	<0.001	<0.002	<0.002	<0.003	297	
MW-8	12/3/2013	<0.001	<0.002	<0.002	<0.003	345	

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 other well locations includes previous four sampling events, when available. Historic groundwater analytical results for these locations may be found in Appendix A.

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

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

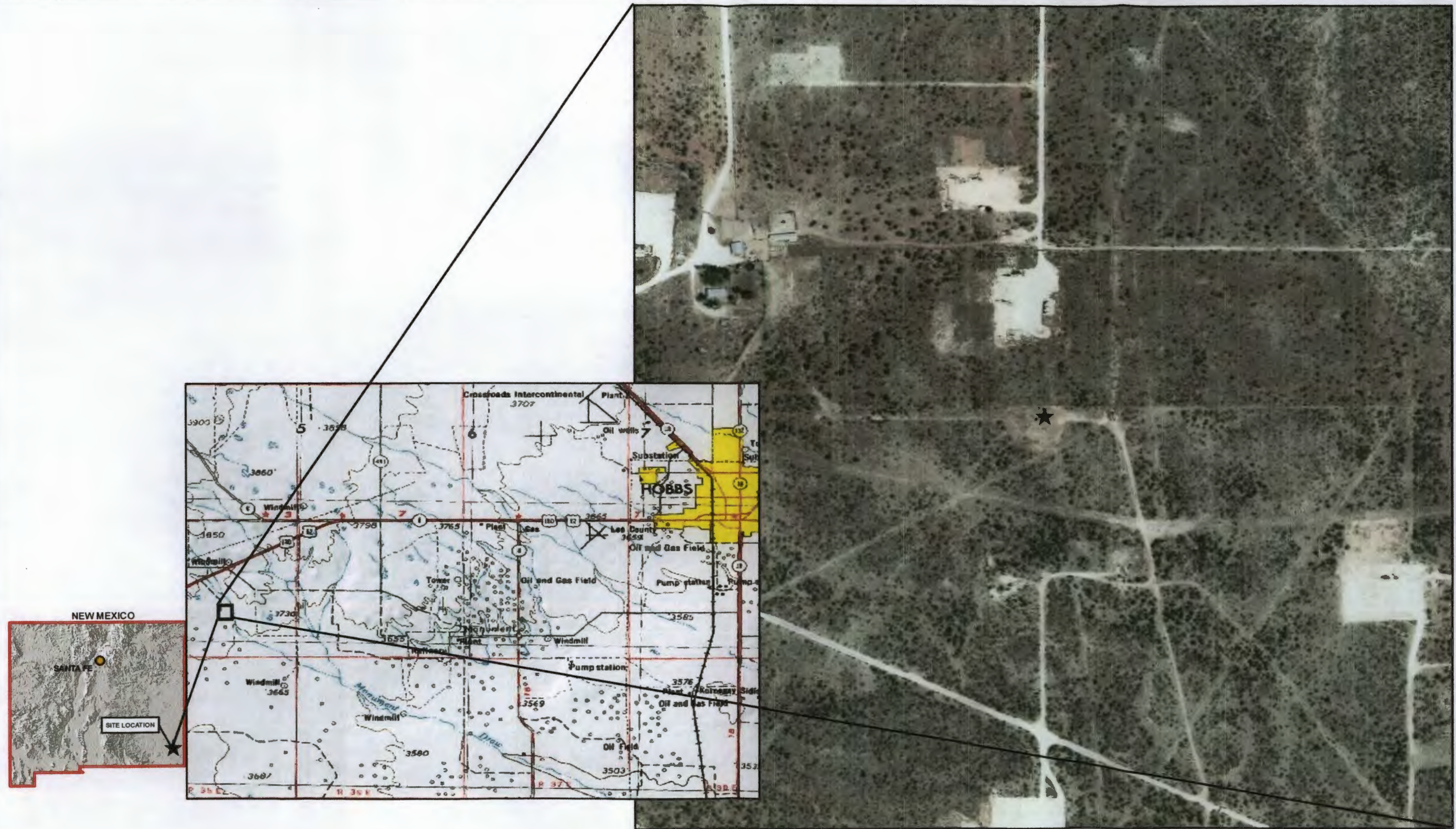
Sample locations are shown on Figure 2 and analytical results are illustrated on Figure 4.

* 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



DATE:
January 2014

DESIGNED BY:
J. Barker

DRAWN BY:
D. Arnold



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

**DCP Midstream
J-4-2 PIPELINE RELEASE**

NE/NE Quarter, Section 27, Township19 South, Range35 East
Lea County, New Mexico

SITE LOCATION

Figure
1



DATE:
January 2014

DESIGNED BY:
J. Barker

DRAWN BY:
D. Arnold

 **TASMAN**
GEOSCIENCES

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

DCP Midstream
J-4-2 PIPELINE RELEASE

NE/NE Quarter, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico

SITE LOCATION

Figure
2



DATE:
January 2014

DESIGNED BY:
J. Barker

DRAWN BY:
D. Arnold

TASMAN
GEOSCIENCES

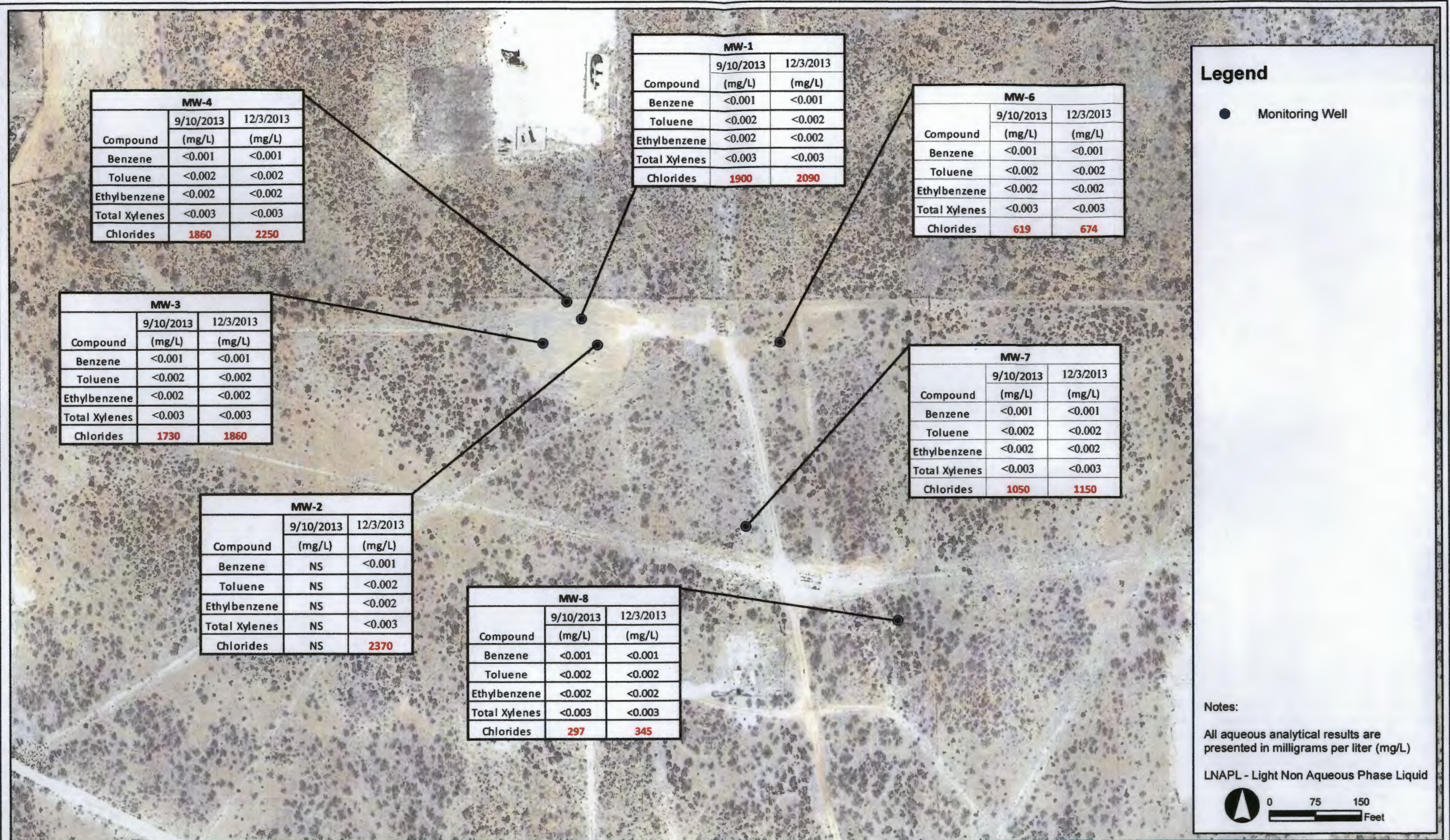
Tasman Geosciences, LLC
6899 Pecos Street - Unit C
Denver, CO 80221

DCP Midstream
J-4-2 PIPELINE RELEASE

NE/NE Quarter, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico

GROUNDWATER ELEVATION
CONTOUR MAP
(DECEMBER 3, 2013)

Figure
3



DATE: January 2014
DESIGNED BY: J. Barker
DRAWN BY: D. Arnold

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

DCP Midstream
J-4-2 PIPELINE RELEASE
NE/NE Quarter, Section 27, Township 19 South, Range 35 East
Lea County, New Mexico

ANALYTICAL RESULTS MAP
(DECEMBER 03, 2013)

Figure
4

Appendix A

Historical Groundwater Analytical Results

**APPENDIX A
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		
MW-1	9/1/2006	0.0487	0.0058	0.0284	0.0694		
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		
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		
MW-1	1/1/2007	0.107	0.024	0.014	0.39		
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		
MW-1	3/20/2008	0.0416	0.0186	0.0177	0.26		
MW-1	6/1/2008	LNAPL	LNAPL	LNAPL	LNAPL		
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	2/22/2013	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-1	9/10/2013	<0.001	<0.002	<0.002	<0.003	1900	Duplicate sample collected
MW-1	12/3/2013	<0.001	<0.002	<0.002	<0.003	1960	Duplicate sample collected

**APPENDIX A
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	NS	NS	NS	NS	NS	
MW-2	9/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-2	12/3/2013	<0.001	<0.002	<0.002	<0.003	2370	

**APPENDIX A
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		
MW-3	9/1/2006	<0.002	<0.002	<0.002	<0.006		
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		
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		
MW-3	11/1/2007	0.0011J	<0.002	<0.002	<0.006		
MW-3	3/1/2008	<0.002	<0.002	<0.002	<0.006		
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		
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	
MW-3	9/10/2013	<0.001	<0.002	<0.002	<0.003	1730	
MW-3	12/3/2013	<0.001	<0.002	<0.002	<0.003	1860	

**APPENDIX A
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	6/1/2006	0.0086	.00093J	0.0092	0.0061		
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		
MW-4	3/1/2007	0.004	0.0006	<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		
MW-4	11/1/2007	<0.002	<0.002	<0.002	<0.006		
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		
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		
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	
MW-4	9/10/2013	<0.001	<0.002	<0.002	<0.003	1860	
MW-4	12/3/2013	<0.001	<0.002	<0.002	<0.003	2250	

**APPENDIX A
HISTORICAL DATA
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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	9/1/2006	<0.002	<0.002	<0.002	<0.006		
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		
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		
MW-6	11/1/2007	<0.002	<0.002	<0.002	<0.006		
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		
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		
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						
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	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	
MW-6	9/10/2013	<0.001	<0.002	<0.002	<0.003	619	
MW-6	12/3/2013	<0.001	<0.002	<0.002	<0.003	674	

APPENDIX A
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	6/1/2006	<0.002	<0.002	<0.002	<0.006		
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		
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		
MW-7	11/1/2007	<0.002	<0.002	<0.002	<0.006		
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		
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		
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	
MW-7	9/10/2013	<0.001	<0.002	<0.002	<0.003	1050	
MW-7	12/3/2013	<0.001	<0.002	<0.002	<0.003	1150	

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HISTORICAL DATA
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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	9/1/2006	<0.002	<0.002	<0.002	<0.006		
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		
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	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		
MW-8	11/1/2007	<0.002	<0.002	<0.002	<0.006		
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		
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		
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	
MW-8	9/10/2013	<0.001	<0.002	<0.002	<0.003	297	
MW-8	12/3/2013	<0.001	<0.002	<0.002	<0.003	345	

Notes:

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

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

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 total Secondary Drinking Water Regulations (SDWR) secondary maximum contaminant levels (SMCLs) and not an enforceably regulated constituent. The 250 mg/L

LNAPL = Light Non-Aqueous Phase Liquid

mg/L = milligrams per liter.

Appendix B

Laboratory Analytical Report



12/11/13

Technical Report for

DCP Midstream, LP

TASMCOA:DCP J-4-2

Accutest Job Number: D53202

Sampling Date: 12/03/13

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: 34



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

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

Scott Heideman
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

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

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

Table of Contents

Sections:



-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 4: Sample Results	6
4.1: D53202-1: MW-1	7
4.2: D53202-2: MW-2	9
4.3: D53202-3: MW-3	11
4.4: D53202-4: MW-4	13
4.5: D53202-5: MW-6	15
4.6: D53202-6: MW-7	17
4.7: D53202-7: MW-8	19
4.8: D53202-8: DUP	21
4.9: D53202-9: TRIP BLANK	23
Section 5: Misc. Forms	24
5.1: Chain of Custody	25
Section 6: GC/MS Volatiles - QC Data Summaries	27
6.1: Method Blank Summary	28
6.2: Blank Spike Summary	29
6.3: Matrix Spike/Matrix Spike Duplicate Summary	30
Section 7: General Chemistry - QC Data Summaries	31
7.1: Method Blank and Spike Results Summary	32
7.2: Matrix Spike Results Summary	33
7.3: Matrix Spike Duplicate Results Summary	34



Sample Summary

DCP Midstream, LP

Job No: D53202

TASMCOA:DCP J-4-2

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D53202-1	12/03/13	12:35 CW	12/06/13	AQ	Ground Water	MW-1
D53202-2	12/03/13	12:50 CW	12/06/13	AQ	Ground Water	MW-2
D53202-3	12/03/13	12:15 CW	12/06/13	AQ	Ground Water	MW-3
D53202-4	12/03/13	12:25 CW	12/06/13	AQ	Ground Water	MW-4
D53202-5	12/03/13	12:00 CW	12/06/13	AQ	Ground Water	MW-6
D53202-6	12/03/13	11:50 CW	12/06/13	AQ	Ground Water	MW-7
D53202-7	12/03/13	11:35 CW	12/06/13	AQ	Ground Water	MW-8
D53202-7D	12/03/13	11:35 CW	12/06/13	AQ	Ground Water	MW-8
D53202-7M	12/03/13	11:35 CW	12/06/13	AQ	Ground Water	MW-8
D53202-8	12/03/13	00:00 CW	12/06/13	AQ	Ground Water	DUP
D53202-9	12/03/13	11:55 CW	12/06/13	AQ	Trip Blank Water	TRIP BLANK



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: DCP Midstream, LP

Job No D53202

Site: TASMCOA:DCP J-4-2

Report Date 12/11/2013 9:53:27 AM

On 12/06/2013, 8 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D53202 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:	V6V1247
--------	----	-----------	---------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D53202-7MS, D53202-7MSD were used as the QC samples indicated.
- D53202-6, D53202-5: 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:	GP11537
--------	----	-----------	---------

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D53085-1MS, D53085-1MSD 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

Page 1 of 1

Job Number: D53202
Account: DCP Midstream, LP
Project: TASMCOA:DCP J-4-2
Collected: 12/03/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D53202-1	MW-1					
Chloride		1960	50		mg/l	EPA 300.0/SW846 9056
D53202-2	MW-2					
Chloride		2370	50		mg/l	EPA 300.0/SW846 9056
D53202-3	MW-3					
Chloride		1860	50		mg/l	EPA 300.0/SW846 9056
D53202-4	MW-4					
Chloride		2250	50		mg/l	EPA 300.0/SW846 9056
D53202-5	MW-6					
Chloride		674	13		mg/l	EPA 300.0/SW846 9056
D53202-6	MW-7					
Chloride		1150	25		mg/l	EPA 300.0/SW846 9056
D53202-7	MW-8					
Chloride		345	10		mg/l	EPA 300.0/SW846 9056
D53202-8	DUP					
Chloride		2090	50		mg/l	EPA 300.0/SW846 9056
D53202-9	TRIP BLANK					

No hits reported in this sample.



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID: MW-1
Lab Sample ID: D53202-1
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22440.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		62-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	99%		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

Page 1 of 1

Client Sample ID: MW-1
Lab Sample ID: D53202-1
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.1
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1960	50	mg/l	100	12/06/13 17:02	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-2
Lab Sample ID: D53202-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22441.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		62-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	101%		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

Page 1 of 1

Client Sample ID: MW-2
Lab Sample ID: D53202-2
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.2

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2370	50	mg/l	100	12/06/13 17:14	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-3
Lab Sample ID: D53202-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22442.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		62-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	99%		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

Page 1 of 1

Client Sample ID: MW-3
Lab Sample ID: D53202-3
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.3
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1860	50	mg/l	100	12/06/13 17:26	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	MW-4	Date Sampled:	12/03/13
Lab Sample ID:	D53202-4	Date Received:	12/06/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	TASMCOA:DCP J-4-2		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22443.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	104%		62-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	100%		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

Page 1 of 1

Client Sample ID: MW-4
Lab Sample ID: D53202-4
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.4

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2250	50	mg/l	100	12/06/13 17:38	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-6
Lab Sample ID: D53202-5
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6V22444.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		62-130%
2037-26-5	Toluene-D8	107%		70-130%
460-00-4	4-Bromofluorobenzene	100%		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-6	Date Sampled:	12/03/13
Lab Sample ID:	D53202-5	Date Received:	12/06/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	TASMCOA:DCP J-4-2		

4.5
4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	674	13	mg/l	25	12/06/13 17:51	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-7
Lab Sample ID: D53202-6
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	6V22445.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		62-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	99%		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

Page 1 of 1

Client Sample ID: MW-7
Lab Sample ID: D53202-6
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.6

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	1150	25	mg/l	50	12/06/13 18:03	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: MW-8
Lab Sample ID: D53202-7
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22446.D	1	12/06/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		62-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	101%		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

Page 1 of 1

Client Sample ID: MW-8
Lab Sample ID: D53202-7
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.7

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	345	10	mg/l	20	12/06/13 18:15	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: DUP
Lab Sample ID: D53202-8
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22449.D	1	12/07/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

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

Page 1 of 1

Client Sample ID: DUP
Lab Sample ID: D53202-8
Matrix: AQ - Ground Water
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

4.8

4

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	2090	50	mg/l	100	12/06/13 18:27	KB	EPA 300.0/SW846 9056

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: TRIP BLANK
Lab Sample ID: D53202-9
Matrix: AQ - Trip Blank Water
Method: SW846 8260B
Project: TASMCOA:DCP J-4-2

Date Sampled: 12/03/13
Date Received: 12/06/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V22450.D	1	12/07/13	BR	n/a	n/a	V6V1247
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		62-130%
2037-26-5	Toluene-D8	106%		70-130%
460-00-4	4-Bromofluorobenzene	97%		69-130%

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

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

Misc. Forms



Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D53202 Client: TASMEN GEOSCIENCES LLC Immediate Client Services Action Required: No
Date / Time Received: 12/6/2013 10:30:00 AM No. Coolers: 1 Client Service Action Required at Login: No
Project: DCP-J-4-2 Airbill #'s: Fedex

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:	Infrared 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

4030 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

D53202: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: D53202

Account: DCPMCOA DCP Midstream, LP

Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6V1247-MB	6V22433.D	1	12/06/13	BR	n/a	n/a	V6V1247

The QC reported here applies to the following samples:

Method: SW846 8260B

D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8, D53202-9

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

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	105%	62-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	101%	69-130%

Blank Spike Summary

Page 1 of 1

Job Number: D53202

Account: DCPMCOA DCP Midstream, LP

Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6V1247-BS	6V22434.D	1	12/06/13	BR	n/a	n/a	V6V1247

The QC reported here applies to the following samples:

Method: SW846 8260B

D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8, D53202-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.9	102	70-130
100-41-4	Ethylbenzene	50	51.0	102	70-130
108-88-3	Toluene	50	51.6	103	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	106%	62-130%
2037-26-5	Toluene-D8	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D53202
Account: DCPMCDN DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D53202-7MS	6V22447.D	1	12/06/13	BR	n/a	n/a	V6V1247
D53202-7MSD	6V22448.D	1	12/06/13	BR	n/a	n/a	V6V1247
D53202-7	6V22446.D	1	12/06/13	BR	n/a	n/a	V6V1247

The QC reported here applies to the following samples:

Method: SW846 8260B

D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8, D53202-9

CAS No.	Compound	D53202-7 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	51.5	103	51.6	103	0		62-130/30
100-41-4	Ethylbenzene	ND	50	51.7	103	51.4	103	1		63-130/30
108-88-3	Toluene	ND	50	51.2	102	51.2	102	0		60-130/30
1330-20-7	Xylene (total)	ND	150	152	101	151	101	1		67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D53202-7	Limits
17060-07-0	1,2-Dichloroethane-D4	112%	110%	107%	62-130%
2037-26-5	Toluene-D8	104%	103%	108%	70-130%
460-00-4	4-Bromofluorobenzene	104%	101%	101%	69-130%

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

7

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: D53202
Account: DCPMCOA - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP11537/GN22952	0.50	0.0	mg/l	20	20.7	103.5	90-110%
Sulfate	GP11537/GN22952	0.50	0.0	mg/l	30	31.7	105.7	90-110%

Associated Samples:

Batch GP11537: D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8

(*) Outside of QC limits

7.1
7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D53202
Account: DCPMCDN - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP11537/GN22952	D53085-1	mg/l	59.9	50	116	112.2	80-120%
Sulfate	GP11537/GN22952	D53085-1	mg/l	41.5	50	97.6	112.2	80-120%

Associated Samples:

Batch GP11537: D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.2
7

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D53202
Account: DCPMCOA - DCP Midstream, LP
Project: TASMCOA:DCP J-4-2

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP11537/GN22952	D53085-1	mg/l	59.9	50	116	0.0	20%
Sulfate	GP11537/GN22952	D53085-1	mg/l	41.5	50	97.5	0.1	20%

Associated Samples:

Batch GP11537: D53202-1, D53202-2, D53202-3, D53202-4, D53202-5, D53202-6, D53202-7, D53202-8

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.3

7