



DCP Midstream
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March 5, 2013

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

**RE: 4th Quarter 2012 Groundwater Monitoring Results
DCP X-Line Pipeline Release (1RP-400-0)
Unit B, Section 7, T15S, R34E (Lat 33° 02' 11", Long 103° 32' 48")**

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review, one copy of the 4th Quarter 2012 Groundwater Monitoring Results for the DCP X-Line Pipeline Release located within the Etcheverry Ranch, Lea County, New Mexico.

This is the 3rd consecutive quarter in which the BTEX concentrations in all groundwater monitor wells have been below New Mexico Water Quality Control Commissions Groundwater Standards.

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

A handwritten signature in black ink, appearing to read "Stephen Weathers", followed by a horizontal line.

Stephen Weathers, PG
Principal Environmental Specialist

cc: Mrs. Etcheverry, Landowner - Certified Mail 91 7108 2133 3938 9761 6632
Geoffrey Leking, OCD Hobbs District Office (Copy on CD)
Environmental Files

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1. Introduction

This report summarizes the remediation system activities and results of groundwater monitoring activities conducted during the fourth quarter 2012, at the X-Line Pipeline Release (Site) at the Etcheverry Ranch in Lea County, New Mexico (Figure 1). Tasman Geosciences, LLC (Tasman) conducted these activities on behalf of DCP Midstream, LP (DCP). The purpose of the field activities described herein were to; a) measure groundwater levels; b) obtain groundwater samples for chemical analysis; c) subsequently evaluate and present groundwater flow and quality conditions; and d) assess and conduct remediation system operations and maintenance (O&M) activities. Current Site conditions and remediation system operation were evaluated from field data and analytical laboratory results collected during the reporting period.

2. Site Location and Background

The Site is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 7, Township 15 South, Range 34 East (Figure 1). The OCD reference for the Site is 1R-0400. The facility coordinates are 33.036389 degrees north and 103.546667 degrees west. The area is sparsely populated and land use is primarily associated with livestock grazing and oil and gas extraction and conveyance.

Historical documents indicate that a pipeline release occurred at the Site during the latter part of 2001. Soil boring activities conducted by Environmental Plus Incorporated (EPI) estimated that the contaminated soil column was approximately 40-feet in diameter at the surface, tapering to approximately 20-feet in diameter at 37-feet below ground surface (bgs) and extending at that diameter to the top of water table at approximately 75-feet bgs. EPI conducted soil excavation activities between January and March of 2002 which included the removal and disposal of approximately 6,746 cubic yards (yd³) of impacted material to a depth of 37 feet bgs. The material was then disposed of at the OCD approved and permitted Artesia Aeration Landfarm in Maljamar, New Mexico. Subsequent to excavation activities, the open pit was backfilled and compacted with overburden and unaffected materials. It was estimated that approximately 560 yd³ of impacted material remained in place.

Seven groundwater monitoring wells (MW-1 through MW-7) were installed at the Site which are illustrated on Figure 2. Additionally, one light non-aqueous phase liquid (LNAPL) recovery well was installed and used to extract LNAPL material from the groundwater table. The well was re-drilled and used as a groundwater monitoring well (MW-8) following LNAPL recovery conducted between July 2003 and 2004.

The Site remediation components include a soil vapor extraction (SVE) and air sparge (AS) remediation system (System). Installation activities were completed by EPI and the system became fully functional by mid-June of 2003. The system was operation until the second quarter of 2012 at which time the system was shut off due to negligible constituent concentrations.

3. Groundwater Monitoring

This section describes the field groundwater monitoring activities as well as the laboratory analyses performed during the fourth quarter 2012 monitoring event. Monitoring activities included Site-wide groundwater gauging and groundwater sampling and were performed on December 7, 2012. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater at the Site. In addition, wells were measured for total depth and groundwater purge volumes calculated. During the fourth quarter 2012 monitoring event, groundwater levels were measured at all eight of the 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]).

Groundwater elevations collected during the fourth quarter 2012 monitoring event are presented in Table 1, and a fourth quarter 2012 groundwater elevation contour map is illustrated on Figure 3. Groundwater elevations ranged from 4,088.69 feet AMSL at monitoring well MW-5 to 4,089.40 feet AMSL in monitoring well MW-1. Since surveyed top of casing (TOC) elevations are not available for monitoring wells MW-7 and MW-8, groundwater elevations could not be calculated for those wells. As illustrated on Figure 3, groundwater flow at the Site generally trends to the southeast with a gradient of approximately 0.0024 foot per foot between monitoring wells MW-1 and MW-5.

3.2 Groundwater Quality Monitoring

Subsequent to the collection of groundwater level measurements at each monitoring well, groundwater samples were collected from all eight wells. A minimum of three well casing volumes of groundwater were purged using polyethylene bailers prior to collecting groundwater samples. Groundwater samples were collected using dedicated polyethylene bailers, placed in clean laboratory supplied containers and 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 submitted to Accutest for benzene, toluene, ethylbenzene, and xylene (BTEX) analyses by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period in addition to concentrations for the previous 4 quarters. Laboratory analytical reports for the event are included in Appendix A and analytical results are summarized on Figure 4. Historical analytical results up

to and including the December 2012 event may be found in Appendix B. During the fourth quarter 2012 monitoring event, BTEX concentrations did not exceed the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards in any of the eight monitoring wells.

Water quality parameters were collected during the fourth quarter 2012 monitoring event and utilized to confirm groundwater stabilization prior to sample collection. Parameter stabilization was achieved within three purge volumes. Therefore, the analytical data are considered to be representative of Site conditions.

3.3 Data Quality Assurance / Quality Control

The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. A trip blank, matrix spike or matrix spike duplicate (MS/MSD) and field duplicate sample from well MW-8 were collected during the sampling event.

The trip blank was fully in control, having no detections of targets.

The duplicate sample collected from MW-8 was in compliance with QA/QC standards, both samples returning results for benzene below the NMWQCC regulatory standards of 0.01 mg/l.

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

4. Remediation System O&M Activities

The air sparge and soil vapor extraction systems were turned off on during the second quarter 2012 to monitor dissolved phase concentration trends within the targeted remediation area subsequent to system shutdown. It remained off throughout the reporting period.

5. Conclusions

All groundwater monitoring wells sampled during the reporting period returned BTEX concentrations below New Mexico Water Quality Control Commission Groundwater Standards.

Monitoring well MW-8 was converted to an air sparge well in December 2011, was then disconnected in March 2012 in order to resume quarterly groundwater sampling. Analytical results from the fourth quarter 2012 event confirm that air sparging has been successful in mitigating the dissolved phase hydrocarbon concentrations in MW-8 as benzene detections were reported below the NMWQCC Standards.

Analytical results were reported above the laboratory detection limits for total xylenes and ethylbenzene in monitoring well MW-2 and benzene, ethylbenzene, and total xylenes in MW-8. However, concentrations in both monitoring wells were still below the NMWQCC Groundwater Standards.

Based on the most current and historic groundwater concentration data, the dissolved phase hydrocarbon plume has been significantly reduced as a result of successful remediation system operation. Dissolved phase hydrocarbon concentrations did not exhibit any increase subsequent to the remediation system shut down.

6. Recommendations

Based on evaluation of data obtained during this reporting period, historical Site observations, and the remediation system operational parameters, the following recommendation has been developed for future activities at the Site:

- Continue quarterly groundwater sampling to demonstrate that the dissolved phase hydrocarbon plume has been successfully mitigated.

Tables

TABLE 1
FOURTH QUARTER 2012
SUMMARY OF GROUNDWATER ELEVATION DATA
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (1) (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	12/9/2011	77.46	91.00	4166.82	4089.36	-0.04
MW-1	3/11/2012	77.43	91.00	4166.82	4089.39	0.03
MW-1	6/8/2012	77.48	91.00	4166.82	4089.34	-0.05
MW-1	9/10/2012	77.46	91.00	4166.82	4089.36	0.02
MW-1	12/7/2012	77.42	91.00	4166.82	4089.40	0.04
MW-2	12/9/2011	77.46	88.00	4166.66	4089.20	-0.04
MW-2	3/11/2012	77.42	88.00	4166.66	4089.24	0.04
MW-2	6/8/2012	77.47	88.00	4166.66	4089.19	-0.05
MW-2	9/10/2012	77.44	88.00	4166.66	4089.22	0.03
MW-2	12/7/2012	77.40	88.00	4166.66	4089.26	0.04
MW-3	12/9/2011	77.46	91.00	4166.17	4088.71	0.96
MW-3	3/11/2012	77.45	91.00	4166.17	4088.72	0.01
MW-3	6/8/2012	77.51	91.00	4166.17	4088.66	-0.06
MW-3	9/10/2012	77.48	91.00	4166.17	4088.69	0.03
MW-3	12/7/2012	77.43	91.00	4166.17	4088.74	0.05
MW-4	12/9/2011	77.60	91.00	4166.40	4088.80	-0.05
MW-4	3/11/2012	77.60	91.00	4166.40	4088.80	0.00
MW-4	6/8/2012	77.62	91.00	4166.40	4088.78	-0.02
MW-4	9/10/2012	77.60	91.00	4166.40	4088.80	0.02
MW-4	12/7/2012	77.55	91.00	4166.40	4088.85	0.05
MW-5	12/9/2011	77.25	89.00	4165.90	4088.65	-0.03
MW-5	3/11/2012	77.25	89.00	4165.90	4088.65	0.00
MW-5	6/8/2012	77.30	89.00	4165.90	4088.60	-0.05
MW-5	9/10/2012	77.26	89.00	4165.90	4088.64	0.04
MW-5	12/7/2012	77.21	89.00	4165.90	4088.69	0.05
MW-6	12/9/2011	77.27	90.00	4165.94	4088.67	-0.13
MW-6	3/11/2012	77.17	90.00	4165.94	4088.77	0.10
MW-6	6/8/2012	77.20	90.00	4165.94	4088.74	-0.03
MW-6	9/10/2012	77.18	90.00	4165.94	4088.76	0.02
MW-6	12/7/2012	77.13	90.00	4165.94	4088.81	0.05
MW-7	12/9/2011	76.74	85.00	NM	NM	NM
MW-7	3/11/2012	76.75	85.00	NM	NM	NM
MW-7	6/8/2012	76.80	85.00	NM	NM	NM
MW-7	9/10/2012	76.75	85.00	NM	NM	NM
MW-7	12/7/2012	76.70	85.00	NM	NM	NM
MW-8	12/9/2011	NM	81.35		NM	NM
MW-8	3/11/2012	75.85	81.35		NM	NM
MW-8	6/8/2012	77.46	81.35	NM	NM	NM
MW-8	9/10/2012	77.42	81.35	NM	NM	NM
MW-8	12/7/2012	77.36	81.35	NM	NM	NM
Average change in groundwater elevation since the previous monitoring event						0.05

Notes:

- 1- Depths measured from the north edge of the well casing.
- 2- Total depths were collected and recorded during the fourth quarter 2012 monitoring event.
- 3- TOC elevations for monitoring wells MW-7, & MW-8 were not available at the time this report was generated. Therefore, groundwater elevations for those wells could not be calculated.
- 4- Changes in groundwater elevation were calculated by subtracting the measurement collected during the previous monitoring even from the measurement collected during the most recent monitoring event.

Data presented for the 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

NM - not measured

TABLE 2
FOURTH QUARTER 2012
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-1	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-1	3/11/2012	<0.001	<0.002	<0.002	<0.004	Duplicate sample collected
MW-1	6/8/2012	<0.001	<0.002	<0.002	<0.003	Duplicate sample collected
MW-1	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-1	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-2	12/9/2011	<0.0005	<0.001	0.0143	0.128	Duplicate sample collected
MW-2	3/11/2012	<0.001	<0.002	0.0036	0.0372	
MW-2	6/8/2012	<0.001	<0.002	0.00067	0.0056	
MW-2	9/10/2012	<0.001	<0.002	0.0089	0.0721	
MW-2	12/7/2012	<0.001	<0.002	0.0079	0.0665	
MW-3	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-3	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-3	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-3	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-3	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-4	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-4	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-4	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-4	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-4	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-5	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-5	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-6	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-6	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-7	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-7	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-7	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-7	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-7	12/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-8*	12/9/2011	NS	NS	NS	NS	
MW-8	3/11/2012	0.0112	0.0227	<0.02	0.0333	
MW-8	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-8	9/10/2012	0.00086	<0.002	0.00066	0.002	Duplicate Sample Collected
MW-8	12/7/2012	0.00063	<0.002	0.00086	<0.003	Duplicate Sample Collected

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

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

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

NS = Not Sampled.

mg/L = milligrams per liter.

* Monitoring well MW-8 was converted to an Air Sparge Injection point prior to the fourth quarter 2011 groundwater monitoring event. Therefore, groundwater samples were not collected from that well.

Figures



DESIGNED BY: C. Wasko DRAWN BY: J. Clotis 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	X-LINE PIPELINE RELEASE	SITE LOCATION	FIGURE 1
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DESIGNED BY: C. Wasko
DRAWN BY: J. Clonts
SHEET CHK'D BY:
CROSS CHK'D BY:
APPROVED BY:
APPROVED BY:

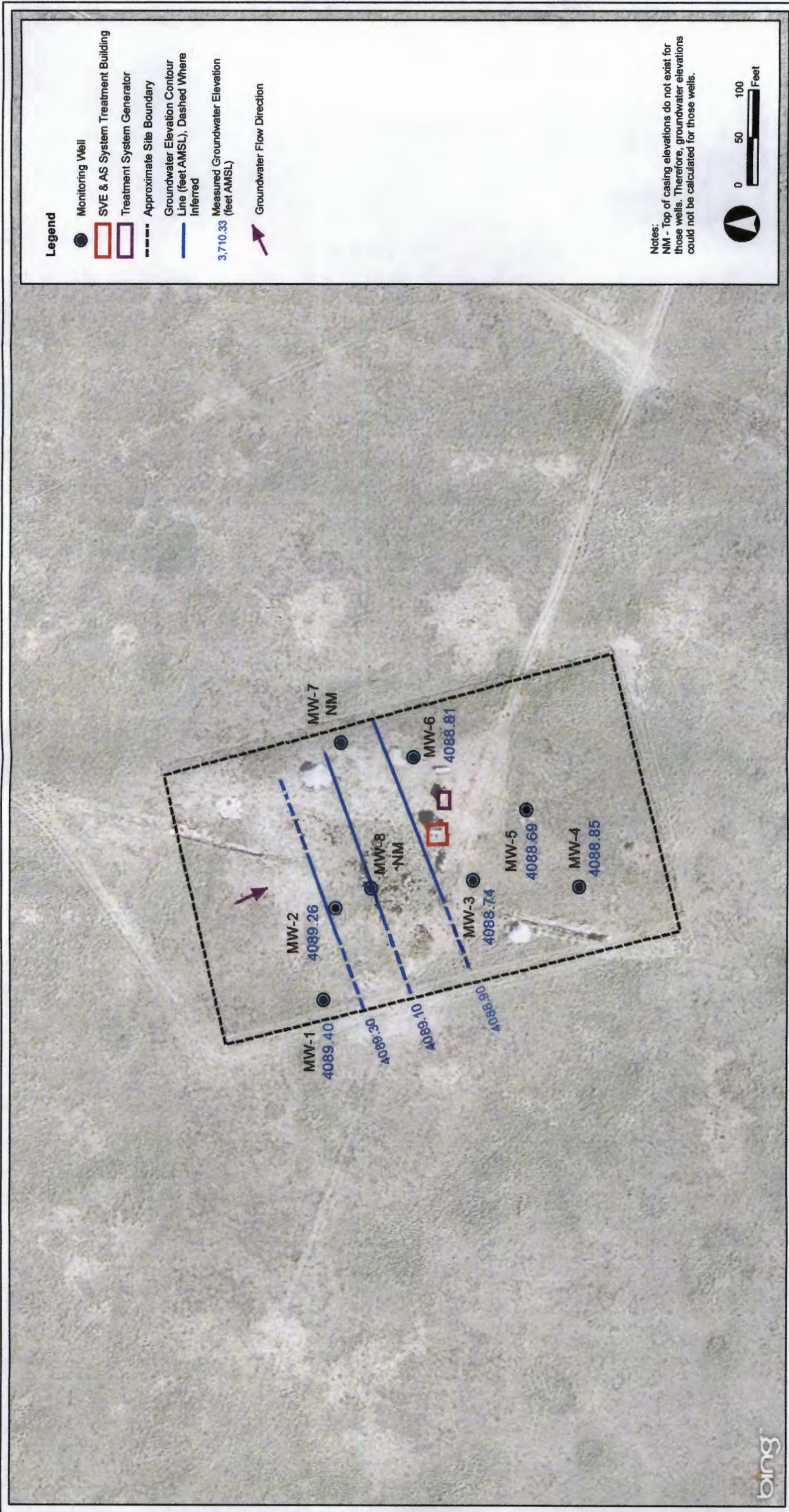
**TASMAN**
GEOSCIENCES

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

X-LINE PIPELINE RELEASE

SITE MAP

**FIGURE
2**



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



TASMAN
GEOSCIENCES

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

X-LINE PIPELINE RELEASE
Fourth Quarter 2012
Groundwater Monitoring
Summary Report

GROUNDWATER ELEVATION
CONTOUR MAP
(DECEMBER 7, 2012)

MW-1			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

MW-8			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	0.00086	0.00063	
Toluene	<0.002	<0.002	
Ethylbenzene	0.00066	0.00086	
Total Xylenes	0.002	<0.003	

MW-3			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

MW-4			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

MW-2			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	0.0089	0.0079	
Total Xylenes	0.0721	0.0665	

MW-7			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

MW-6			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

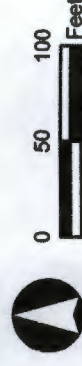
MW-5			
Compound	9/10/2012 (mg/L)	12/7/2012 (mg/L)	
Benzene	<0.001	<0.001	
Toluene	<0.002	<0.002	
Ethylbenzene	<0.002	<0.002	
Total Xylenes	<0.003	<0.003	

Legend

- Monitoring Well
- SVE & AS System Treatment Building
- Treatment System Generator
- Approximate Site Boundary

Notes:

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



DESIGNED BY: C. Wesko

DRAWN BY: J. Clorits

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

X-LINE PIPELINE RELEASE

*Fourth Quarter 2012
Groundwater Monitoring
Summary Report*

ANALYTICAL RESULTS MAP

**FIGURE
4**

Appendix A

Laboratory Analytical Report



12/14/12

Technical Report for

DCP Midstream, LP

TASMCOA:DCP XLINE Etcheverry Ranch

Accutest Job Number: D41670

Sampling Date: 12/07/12

Report to:

Tasman Geosciencec LLC
5715 Reed Street
Arvada, CO 80002
jimdawe@tasman-geo.com; swweathers@dcpmidstream.com;
cwasko@tasman-geo.com
ATTN: Jim Dawe

Total number of pages in report: 32



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

A handwritten signature in black ink, appearing to read 'Brad Madadian'.

Brad Madadian
Laboratory Director

Client Service contact: Shea Greiner 303-425-6021

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

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

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Sample Summary

DCP Midstream, LP

Job No: D41670

TASMCOA:DCP XLINE Etcheverry Ranch

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D41670-1	12/07/12	13:25 CW	12/08/12	AQ	Ground Water	MW-1
D41670-2	12/07/12	13:40 CW	12/08/12	AQ	Ground Water	MW-2
D41670-3	12/07/12	13:05 CW	12/08/12	AQ	Ground Water	MW-3
D41670-4	12/07/12	12:50 CW	12/08/12	AQ	Ground Water	MW-4
D41670-5	12/07/12	13:00 CW	12/08/12	AQ	Ground Water	MW-5
D41670-5D	12/07/12	13:00 CW	12/08/12	AQ	Water Dup/MSD	MW-5
D41670-5M	12/07/12	13:00 CW	12/08/12	AQ	Water Matrix Spike	MW-5
D41670-6	12/07/12	14:05 CW	12/08/12	AQ	Ground Water	MW-6
D41670-7	12/07/12	13:50 CW	12/08/12	AQ	Ground Water	MW-7
D41670-8	12/07/12	14:15 CW	12/08/12	AQ	Ground Water	MW-8
D41670-9	12/07/12	00:00 CW	12/08/12	AQ	Ground Water	DUP
D41670-10	12/07/12	00:00 CW	12/08/12	AQ	Trip Blank Water	TRIP BLANKS

Summary of Hits

Page 1 of 1

Job Number: D41670
Account: DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch
Collected: 12/07/12

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

D41670-1 **MW-1**

No hits reported in this sample.

D41670-2 **MW-2**

Ethylbenzene	0.0079	0.0020	0.00033	mg/l	SW846 8260B
Xylene (total)	0.0665	0.0030	0.0020	mg/l	SW846 8260B

D41670-3 **MW-3**

No hits reported in this sample.

D41670-4 **MW-4**

No hits reported in this sample.

D41670-5 **MW-5**

No hits reported in this sample.

D41670-6 **MW-6**

No hits reported in this sample.

D41670-7 **MW-7**

No hits reported in this sample.

D41670-8 **MW-8**

Benzene	0.00063 J	0.0010	0.00027	mg/l	SW846 8260B
Ethylbenzene	0.00086 J	0.0020	0.00033	mg/l	SW846 8260B

D41670-9 **DUP**

Benzene	0.00053 J	0.0010	0.00027	mg/l	SW846 8260B
Ethylbenzene	0.00073 J	0.0020	0.00033	mg/l	SW846 8260B

D41670-10 **TRIP BLANKS**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1						
Lab Sample ID:	D41670-1					Date Sampled:	12/07/12
Matrix:	AQ - Ground Water					Date Received:	12/08/12
Method:	SW846 8260B					Percent Solids:	n/a
Project:	TASMSOA:DCP XLINE Etcheverry Ranch						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V17081.D	1	12/11/12	JL	n/a	n/a	V7V927
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	94%		62-130%
2037-26-5	Toluene-D8	98%		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-2	
Lab Sample ID:	D41670-2	Date Sampled: 12/07/12
Matrix:	AQ - Ground Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMCOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V17080.D	1	12/11/12	JL	n/a	n/a	V7V927
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	0.0079	0.0020	0.00033	mg/l	
1330-20-7	Xylene (total)	0.0665	0.0030	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	93%		62-130%
2037-26-5	Toluene-D8	98%		70-130%
460-00-4	4-Bromofluorobenzene	94%		69-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3	Date Sampled:	12/07/12
Lab Sample ID:	D41670-3	Date Received:	12/08/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	TASMSOA:DCP XLINE Etcheverry Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V17079.D	1	12/11/12	JL	n/a	n/a	V7V927
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0010	0.00027	mg/l	
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00033	mg/l	
1330-20-7	Xylene (total)	ND	0.0030	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		62-130%
2037-26-5	Toluene-D8	98%		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:	D41670-4	Date Sampled: 12/07/12
Matrix:	AQ - Ground Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMSOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V17078.D	1	12/11/12	JL	n/a	n/a	V7V927
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	91%		62-130%
2037-26-5	Toluene-D8	98%		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-5	
Lab Sample ID:	D41670-5	Date Sampled: 12/07/12
Matrix:	AQ - Ground Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMCOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V22059.D	1	12/10/12	BR	n/a	n/a	V3V1289
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	111%		62-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	88%		69-130%

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

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

Report of Analysis

Client Sample ID:	MW-6	
Lab Sample ID:	D41670-6	Date Sampled: 12/07/12
Matrix:	AQ - Ground Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMCOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V17188.D	1	12/14/12	BR	n/a	n/a	V6V953
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	98%		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-7		
Lab Sample ID:	D41670-7	Date Sampled:	12/07/12
Matrix:	AQ - Ground Water	Date Received:	12/08/12
Method:	SW846 8260B	Percent Solids:	n/a
Project:	TASMSOA:DCP XLINE Etcheverry Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V22062.D	1	12/10/12	BR	n/a	n/a	V3V1289
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	115%		62-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	85%		69-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8	Date Sampled:	12/07/12
Lab Sample ID:	D41670-8	Date Received:	12/08/12
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	TASMSOA:DCP XLINE Etcheverry Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V17099.D	1	12/11/12	JL	n/a	n/a	V7V928
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.00063	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	0.00086	0.0020	0.00033	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	92%		62-130%
2037-26-5	Toluene-D8	97%		70-130%
460-00-4	4-Bromofluorobenzene	93%		69-130%

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

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

Report of Analysis

Client Sample ID:	DUP	
Lab Sample ID:	D41670-9	Date Sampled: 12/07/12
Matrix:	AQ - Ground Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMSOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V22063.D	1	12/10/12	BR	n/a	n/a	V3V1289
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.00053	0.0010	0.00027	mg/l	J
108-88-3	Toluene	ND	0.0020	0.0010	mg/l	
100-41-4	Ethylbenzene	0.00073	0.0020	0.00033	mg/l	J
1330-20-7	Xylene (total)	ND	0.0030	0.0020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		62-130%
2037-26-5	Toluene-D8	101%		70-130%
460-00-4	4-Bromofluorobenzene	88%		69-130%

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

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

Report of Analysis

Client Sample ID:	TRIP BLANKS	
Lab Sample ID:	D41670-10	Date Sampled: 12/07/12
Matrix:	AQ - Trip Blank Water	Date Received: 12/08/12
Method:	SW846 8260B	Percent Solids: n/a
Project:	TASMSOA:DCP XLINE Etcheverry Ranch	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V22064.D	1	12/10/12	BR	n/a	n/a	V3V1289
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	117%		62-130%
2037-26-5	Toluene-D8	104%		70-130%
460-00-4	4-Bromofluorobenzene	89%		69-130%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



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 # D41670

Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes									
Company Name DCP Midstream Tasman Geosciences		Project Name: DCP XLINE										V8260BTX MS/MSD for V8260BTX										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									
Street Address 5690 Webster Street		Street		Billing Information (If different from Report to) Company Name DCP Midstream																											
City Arvada CO 80002		City State		Street Address PO Box 4870																											
Project Contact Christine Wasko cwasko@tasman-geo.com		Project # RC - GN00 Project - 400228028		City Portland OR 97208-4870																											
Phone # 720-409-8791		Client Purchase Order #		Attention: Steve Weathers SWWeathers@dcpmidstream.com																											
Sampler(s) Name(s) Christine Wasko		Project Manager Jim Dawe jimdawe@tasman-geo.com																													
Accutest Sample #		Field ID / Point of Collection		MEOH/DI Vial #		Date		Time		Sampled by		Matrix		# of bottles		HCl		HNO3		H2SO4		NONE		DI Water		MEDIH		ENCORE		LAB USE ONLY	
		MW-1					12/7/12		1325		AW		GW		3		3													01	
		MW-2							1340				GW		3		3													02	
		MW-3							1305				GW		3		3													03	
		MW-4							1250				GW		3		3													04	
		MW-5							1300				GW		3		3													05	
		MW-6							1405				GW		3		3													06	
		MW-7							1350				GW		3		3													07	
		MW-8							1415				GW		3		3													08	
		MS/MSD MW-5							1300				GW		6		6											X		05	
		DUP											GW		3		3													09	
		TRIP BLANK													2		2													10	
Turnaround Time (Business days)		Data Deliverable Information										Comments / Special Instructions																			
☐ Std. 15 Business Days ☐ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day Emergency ☐ 2 Day Emergency ☐ 1 Day Emergency ☒ STD 5 business Days per contract Emergency & Rush TIA data available VIA Lablink		Approved By (Accutest PM): / Date: _____ _____ _____ _____ _____										☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☒ COMMBN ☐ COMMBN+ Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial BN = Results/QC/Narrative (+ = chromatograms)										☐ State Forms Required ☐ Send Forms to State ☐ Report by Fax ☒ Report by PDF ☐ EDD Format Email results to Steve Weathers _____ _____ _____									
Sample Custody must be documented below each time samples change possession, including courier delivery.																															
Relinquished by Sampler:		Date Time:		Received By:		Relinquished by:		Date Time:		Received By:		Relinquished by:		Date Time:		Received By:															
1 Christine Wasko		12/7/12 1700		1 Steve Weathers		2		12/7/12 9:00		2		3		12/7/12 9:00		3															
3				3		4				4		4				4															
5				5		5				5		5				5															
Custody Seal #						Intact		Not Intact		Preserved Where applicable				On Ice		Cooler Temp.															

D41670: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D41670

Client: DCP MIDSTREAM

Immediate Client Services Action Required: No

Date / Time Received: 12/8/2012 9:00:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: DCP XLINE

Airbill #'s: FX

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

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

GC/MS Volatiles

5

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: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V1289-MB	3V22051.D	1	12/10/12	BR	n/a	n/a	V3V1289

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-5, D41670-7, D41670-9, D41670-10

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	111% 62-130%
2037-26-5	Toluene-D8	106% 70-130%
460-00-4	4-Bromofluorobenzene	92% 69-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	4.41	12	ug/l	JN
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V927-MB	7V17072.D	1	12/10/12	JL	n/a	n/a	V7V927

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-1, D41670-2, D41670-3, D41670-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.27	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.33	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	2.0	ug/l	

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

Method Blank Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V928-MB	7V17093.D	1	12/11/12	JL	n/a	n/a	V7V928

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-8

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	92% 62-130%
2037-26-5	Toluene-D8	96% 70-130%
460-00-4	4-Bromofluorobenzene	91% 69-130%

Method Blank Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCO DN DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6V953-MB	6V17181.D	1	12/14/12	BR	n/a	n/a	V6V953

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-6

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	101% 62-130%
2037-26-5	Toluene-D8	102% 70-130%
460-00-4	4-Bromofluorobenzene	95% 69-130%

Blank Spike Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V1289-BS	3V22052.D	1	12/10/12	BR	n/a	n/a	V3V1289

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-5, D41670-7, D41670-9, D41670-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	51.3	103	70-130
100-41-4	Ethylbenzene	50	51.4	103	70-130
108-88-3	Toluene	50	49.9	100	70-130
1330-20-7	Xylene (total)	150	154	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	110%	62-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	95%	69-130%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: D41670

Account: DCPMCOA DCP Midstream, LP

Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V927-BS	7V17073.D	1	12/11/12	JL	n/a	n/a	V7V927

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-1, D41670-2, D41670-3, D41670-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	47.6	95	70-130
100-41-4	Ethylbenzene	50	49.3	99	70-130
108-88-3	Toluene	50	50.5	101	70-130
1330-20-7	Xylene (total)	150	153	102	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	93%	62-130%
2037-26-5	Toluene-D8	98%	70-130%
460-00-4	4-Bromofluorobenzene	95%	69-130%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V928-BS	7V17094.D	1	12/11/12	JL	n/a	n/a	V7V928

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	46.7	93	70-130
100-41-4	Ethylbenzene	50	48.9	98	70-130
108-88-3	Toluene	50	49.5	99	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	92%	62-130%
2037-26-5	Toluene-D8	97%	70-130%
460-00-4	4-Bromofluorobenzene	95%	69-130%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6V953-BS	6V17182.D	1	12/14/12	BR	n/a	n/a	V6V953

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	45.9	92	70-130
100-41-4	Ethylbenzene	50	50.7	101	70-130
108-88-3	Toluene	50	48.6	97	70-130
1330-20-7	Xylene (total)	150	154	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	101%	62-130%
2037-26-5	Toluene-D8	104%	70-130%
460-00-4	4-Bromofluorobenzene	98%	69-130%

* = Outside of Control Limits.

Matrix Spike Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41838-1MS	6V17191.D	1	12/14/12	BR	n/a	n/a	V6V953
D41838-1	6V17190.D	1	12/14/12	BR	n/a	n/a	V6V953

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-6

CAS No.	Compound	D41838-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
71-43-2	Benzene	ND	50	46.1	92	62-130	
100-41-4	Ethylbenzene	ND	50	51.3	103	63-130	
108-88-3	Toluene	ND	50	47.9	96	60-130	
1330-20-7	Xylene (total)	ND	150	157	105	67-130	

CAS No.	Surrogate Recoveries	MS	D41838-1	Limits
17060-07-0	1,2-Dichloroethane-D4	102%	112%	62-130%
2037-26-5	Toluene-D8	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	99%	92%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41670-5MS	3V22060.D	1	12/10/12	BR	n/a	n/a	V3V1289
D41670-5MSD	3V22061.D	1	12/10/12	BR	n/a	n/a	V3V1289
D41670-5	3V22059.D	1	12/10/12	BR	n/a	n/a	V3V1289

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-5, D41670-7, D41670-9, D41670-10

CAS No.	Compound	D41670-5 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	52.9	106	52.5	105	1	62-130/30
100-41-4	Ethylbenzene	ND	50	52.8	106	52.6	105	0	63-130/30
108-88-3	Toluene	ND	50	51.7	103	51.1	102	1	60-130/30
1330-20-7	Xylene (total)	ND	150	160	107	158	105	1	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D41670-5	Limits
17060-07-0	1,2-Dichloroethane-D4	111%	114%	111%	62-130%
2037-26-5	Toluene-D8	104%	105%	104%	70-130%
460-00-4	4-Bromofluorobenzene	97%	93%	88%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41669-3MS	7V17085.D	1	12/11/12	JL	n/a	n/a	V7V927
D41669-3MSD	7V17086.D	1	12/11/12	JL	n/a	n/a	V7V927
D41669-3	7V17084.D	1	12/11/12	JL	n/a	n/a	V7V927

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-1, D41670-2, D41670-3, D41670-4

CAS No.	Compound	D41669-3 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	45.5	91	45.6	91	0	62-130/30
100-41-4	Ethylbenzene	ND	50	47.1	94	47.2	94	0	63-130/30
108-88-3	Toluene	ND	50	47.9	96	48.3	97	1	60-130/30
1330-20-7	Xylene (total)	ND	150	146	97	147	98	1	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D41669-3	Limits
17060-07-0	1,2-Dichloroethane-D4	94%	94%	91%	62-130%
2037-26-5	Toluene-D8	98%	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	96%	96%	92%	69-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCOA DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41671-7MS ^a	7V17102.D	1	12/11/12	JL	n/a	n/a	V7V928
D41671-7MSD ^a	7V17103.D	1	12/11/12	JL	n/a	n/a	V7V928
D41671-7 ^a	7V17101.D	1	12/11/12	JL	n/a	n/a	V7V928

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-8

CAS No.	Compound	D41671-7 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	45.5	91	45.3	91	0	62-130/30
100-41-4	Ethylbenzene	ND	50	47.4	95	47.5	95	0	63-130/30
108-88-3	Toluene	ND	50	47.7	95	48.2	96	1	60-130/30
1330-20-7	Xylene (total)	ND	150	147	98	149	99	1	67-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D41671-7	Limits
17060-07-0	1,2-Dichloroethane-D4	92%	92%	91%	62-130%
2037-26-5	Toluene-D8	97%	97%	97%	70-130%
460-00-4	4-Bromofluorobenzene	96%	96%	92%	69-130%

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

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 1

Job Number: D41670
Account: DCPMCO DN DCP Midstream, LP
Project: TASMCOA:DCP XLINE Etcheverry Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D41670-6DUP	6V17189.D	1	12/14/12	BR	n/a	n/a	V6V953
D41670-6	6V17188.D	1	12/14/12	BR	n/a	n/a	V6V953

The QC reported here applies to the following samples:

Method: SW846 8260B

D41670-6

CAS No.	Compound	D41670-6 ug/l	DUP Q ug/l	Q	RPD	Limits
71-43-2	Benzene	ND	ND		nc	30
100-41-4	Ethylbenzene	ND	ND		nc	30
108-88-3	Toluene	ND	ND		nc	30
1330-20-7	Xylene (total)	ND	ND		nc	30

CAS No.	Surrogate Recoveries	DUP	D41670-6	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	109%	62-130%
2037-26-5	Toluene-D8	100%	98%	70-130%
460-00-4	4-Bromofluorobenzene	94%	90%	69-130%

* = Outside of Control Limits.

Appendix B

Historical Groundwater Analytical Results

**APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-1	4/24/2002	<0.002	<0.002	<0.002	<0.006	
MW-1	5/21/2002	0.002	<0.002	0.003	<0.006	
MW-1	4/28/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	6/19/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	7/17/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	8/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	9/22/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	10/29/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	11/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-1	2/18/2004	<0.001	<0.001	<0.001	0.0514	
MW-1	6/25/2004	<0.001	<0.001	<0.001	<0.001	
MW-1	10/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-1	12/9/2004	<0.001	<0.001	<0.001	<0.001	
MW-1	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-1	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-1	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-1	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-1	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-1	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-1	9/28/2006	<0.001	<0.001	<0.001	<0.001	
MW-1	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-1	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-1	6/26/2007	<0.001	<0.001	<0.001	<0.002	
MW-1	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-1	12/27/2007	0.00093	<0.002	0.002	0.0028	
MW-1	12/29/2007	0.00093	0.002	<0.00045	0.0028	
MW-1	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-1	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1	6/27/2008	<0.002	<0.002	<0.002	<0.002	
MW-1	9/15/2008	<0.002	<0.002	<0.002	<0.006	
MW-1	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-1	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-1	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-1	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-1	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-1	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-1	6/30/2010	<0.0003	<0.0003	<0.001	<0.0006	
MW-1	9/13/2010	<0.00030	<0.0010	<0.00030	-	
MW-1	3/25/2010	<0.40	<1.0	<1.0	-	
MW-1	6/30/2010	<0.30	<1.0	<0.30	-	
MW-1	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-1	12/9/2010	<0.001	<0.002	<0.002	<0.004	
MW-1	12/9/2010	<0.00030	<0.0010	<0.00030	-	
MW-1	3/28/2011	<0.00030	<0.0010	<0.00030	0.00099	
MW-1	3/28/2011	<0.001	<0.002	<0.002	<0.004	
MW-1	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-1	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-1	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-1	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-1	3/11/2012	<0.001	<0.002	<0.002	<0.004	Duplicate sample collected
MW-1	6/8/2012	<0.001	<0.002	<0.002	<0.003	Duplicate sample collected
MW-1	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-1	12/7/2012	<0.001	<0.002	<0.002	<0.003	

**APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-2	4/24/2002	0.0255	0.013	0.107	0.38	
MW-2	5/21/2002	0.145	0.062	0.833	1.27	
MW-2	4/28/2003	0.182	0.121	0.092	0.133	
MW-2	6/19/2003	0.074	0.069	0.066	0.103	
MW-2	7/17/2003	0.155	0.112	0.15	0.186	
MW-2	8/20/2003	0.024	0.012	0.092	0.179	
MW-2	9/22/2003	0.022	0.012	0.051	0.079	
MW-2	10/29/2003	0.001	0.002	0.004	0.017	
MW-2	11/20/2003	0.013	0.005	0.017	0.034	
MW-2	2/18/2004	<0.001	0.00301	0.00652	0.00067	
MW-2	6/25/2004	0.00156	0.0005	0.00108	0.00106	
MW-2	10/18/2004	0.0103	0.00336	0.00648	0.0052	
MW-2	12/9/2004	0.00342	0.00122	0.00206	<0.001	
MW-2	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-2	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-2	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-2	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-2	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-2	6/26/2006	0.0006	<0.001	0.00114	0.00125	
MW-2	9/28/2006	0.0007	0.0003	0.00137	0.0014	
MW-2	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-2	3/13/2007	0.000674	0.0012	0.00512	0.0077	
MW-2	6/26/2007	<0.001	0.0024	0.0102	0.013	
MW-2	9/5/2007	<0.002	<0.002	0.0075	0.0078	
MW-2	12/27/2007	0.00057	0.000761	0.0039	0.0051	
MW-2	12/29/2007	0.00057	0.0039	0.00076	0.0051	
MW-2	3/20/2008	<0.002	0.01	0.03	0.06	
MW-2	3/20/2008	<0.00046	0.0318	0.0064	0.0568	
MW-2	6/27/2008	0.00096	0.0229	0.0073	0.0229	
MW-2	9/15/2008	0.00096	0.02	0.03	0.12	
MW-2	12/1/2008	<0.002	0.0147	0.0135	0.143	
MW-2	12/1/2008	<0.00046	0.0135	0.0147	0.143	
MW-2	3/11/2009	<0.002	0.0123	0.0048	0.12	
MW-2	3/11/2009	<0.00046	0.0048	0.0123	0.12	
MW-2	5/27/2009	<0.002	0.01	0.01	0.16	
MW-2	5/27/2009	<0.00046	0.0055	0.0125	0.159	
MW-2	9/24/2009	<0.002	0.0096	<0.002	0.103	
MW-2	9/24/2009	<0.00050	<0.00043	0.0079	0.0837	
MW-2	12/18/2009	<0.002	0.0086	<0.002	0.0916	
MW-2	12/18/2009	<0.00050	<0.00043	0.0086	0.0916	
MW-2	3/25/2010	<0.001	0.0087	<0.002	0.0923	
MW-2	3/25/2010	<0.40	<1.0	0.0087	-	
MW-2	6/30/2010	<0.0003	0.0062	<0.001	0.0417	
MW-2	6/30/2010	<0.30	<1.0	0.0062	-	
MW-2	9/13/2010	<0.00030	<0.0010	0.007	-	
MW-2	9/16/2010	<0.001	0.007	<0.002	0.0786	
MW-2	12/9/2010	0.00049	<0.0010	0.0147	-	
MW-2	12/9/2010	0.00049	0.0147	<0.002	0.1317	
MW-2	3/28/2011	<0.001	0.005	<0.002	0.0455	
MW-2	3/28/2011	<0.00030	<0.0010	0.005	0.0455	
MW-2	6/22/2011	<0.002	1.002	<0.0164	1.185	
MW-2	6/22/2011	<0.00025	<0.0010	0.0164	0.185	
MW-2	9/18/2011	<0.001	<0.002	0.0123	0.14	
MW-2	12/9/2011	<0.0005	<0.001	0.0143	0.128	Duplicate sample collected
MW-2	3/11/2012	<0.001	<0.002	0.0036	0.0372	
MW-2	6/8/2012	<0.001	<0.002	0.00067	0.0056	
MW-2	9/10/2012	<0.001	<0.002	0.0089	0.0721	
MW-2	12/7/2012	<0.001	<0.002	0.0079	0.0665	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-3	4/24/2002	0.061	0.023	<0.002	0.189	
MW-3	5/21/2002	0.176	0.023	0.004	0.451	
MW-3	4/28/2003	0.099	0.03	0.005	0.039	
MW-3	6/19/2003	0.047	0.02	<0.001	0.006	
MW-3	7/17/2003	0.063	0.023	0.002	0.007	
MW-3	8/20/2003	0.017	0.006	<0.001	0.001	
MW-3	9/22/2003	0.049	0.02	<0.001	0.001	
MW-3	10/29/2003	0.044	0.018	<0.001	0.001	
MW-3	11/20/2003	0.048	0.017	0.003	0.004	
MW-3	2/18/2004	0.028	0.0138	<0.001	<0.001	
MW-3	6/25/2004	0.0173	0.0136	0.000158	0.000118	
MW-3	10/18/2004	0.00584	0.00692	<0.001	0.0015	
MW-3	12/9/2004	0.006137	0.00884	<0.001	<0.001	
MW-3	3/3/2005	0.00167	0.00167	<0.001	0.00044	
MW-3	6/3/2005	0.00332	0.00574	<0.001	0.00173	
MW-3	9/28/2005	<0.001	0.00101	0.000482	0.000997	
MW-3	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-3	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-3	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-3	9/28/2006	<0.001	<0.001	<0.001	<0.001	
MW-3	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-3	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-3	6/26/2007	<0.001	<0.0011	<0.001	<0.002	
MW-3	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-3	12/27/2007	<0.002	<0.002	0.0012	<0.006	
MW-3	12/29/2007	<0.00046	0.0012	<0.00045	<0.0014	
MW-3	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-3	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	6/27/2008	<0.002	<0.002	<0.002	<0.002	
MW-3	9/15/2008	<0.002	<0.002	<0.002	<0.006	
MW-3	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-3	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-3	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-3	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-3	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-3	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-3	6/30/2010	<0.0003	<0.0003	<0.001	<0.0006	
MW-3	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-3	9/13/2010	<0.00030	<0.0010	<0.00030	-	
MW-3	12/9/2010	<0.00030	<0.0010	<0.00030	-	
MW-3	12/9/2010	<0.001	<0.002	<0.002	<0.004	
MW-3	3/25/2010	<0.40	<1.0	<1.0	-	
MW-3	6/30/2010	<0.30	<1.0	<0.30	-	
MW-3	3/28/2011	<0.001	<0.002	<0.002	<0.004	
MW-3	3/28/2011	<0.00030	<0.0010	<0.00030	0.0011	
MW-3	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-3	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-3	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-3	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-3	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-3	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-3	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-3	12/7/2012	<0.001	<0.002	<0.002	<0.003	

**APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-4	4/24/2002	<0.002	<0.002	<0.002	<0.006	
MW-4	5/21/2002	<0.002	<0.002	<0.002	<0.006	
MW-4	4/28/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	6/19/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	7/17/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	8/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	9/22/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	10/29/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	11/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-4	2/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-4	6/25/2004	<0.001	<0.001	<0.001	<0.001	
MW-4	10/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-4	12/9/2004	<0.001	<0.001	<0.001	<0.001	
MW-4	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-4	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-4	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-4	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-4	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-4	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-4	9/28/2006	<0.001	<0.001	<0.001	<0.001	
MW-4	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-4	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-4	6/26/2007	<0.001	<0.001	<0.001	<0.002	
MW-4	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-4	12/27/2007	0.00053	<0.002	0.001	0.0016	
MW-4	12/29/2007	0.00053	0.001	<0.00045	0.0016	
MW-4	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-4	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	6/27/2008	<0.002	<0.002	<0.002	<0.002	
MW-4	9/15/2008	<0.002	<0.002	<0.002	<0.006	
MW-4	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-4	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-4	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-4	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-4	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-4	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-4	6/30/2010	<0.0003	<0.0003	<0.001	<0.0006	
MW-4	9/13/2010	<0.00030	<0.0010	<0.00030	-	
MW-4	3/25/2010	<0.40	<1.0	<1.0	-	
MW-4	6/30/2010	<0.30	<1.0	<0.30	-	
MW-4	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-4	12/9/2010	<0.001	<0.002	<0.002	<0.004	
MW-4	12/9/2010	<0.00030	<0.0010	<0.00030	-	
MW-4	3/28/2011	<0.001	<0.002	<0.002	<0.004	
MW-4	3/28/2011	<0.00030	<0.0010	<0.00030	0.00078	
MW-4	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-4	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-4	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-4	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-4	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-4	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-4	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-4	12/7/2012	<0.001	<0.002	<0.002	<0.003	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-5	4/24/2002	<0.002	<0.002	<0.002	0.011	
MW-5	5/21/2002	<0.002	<0.002	<0.002	<0.006	
MW-5	4/28/2003	0.005	<0.001	<0.001	0.003	
MW-5	6/19/2003	<0.001	<0.001	<0.001	0.003	
MW-5	7/17/2003	<0.001	<0.001	<0.001	0.002	
MW-5	8/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-5	9/22/2003	<0.001	<0.001	<0.001	<0.001	
MW-5	10/29/2003	<0.001	<0.001	<0.001	<0.001	
MW-5	11/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-5	2/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-5	6/25/2004	<0.001	<0.001	<0.001	<0.001	
MW-5	10/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-5	12/9/2004	<0.001	<0.001	<0.001	<0.001	
MW-5	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-5	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-5	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-5	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-5	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-5	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-5	9/28/2006	<0.001	<0.001	<0.001	<0.001	
MW-5	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-5	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-5	6/26/2007	<0.001	<0.001	<0.001	<0.002	
MW-5	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-5	12/27/2007	<0.002	<0.002	0.00098	<0.006	
MW-5	12/29/2007	<0.00046	0.00098	<0.00045	<0.0014	
MW-5	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-5	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-5	6/27/2008	<0.002	<0.002	<0.002	<0.002	
MW-5	9/15/2008	<0.002	<0.002	<0.002	<0.006	
MW-5	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-5	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-5	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-5	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-5	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-5	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-5	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-5	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-5	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-5	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-5	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-5	6/30/2010	<0.0003	<0.0003	<0.001	<0.0006	
MW-5	9/13/2010	<0.00030	<0.0010	<0.00030	-	
MW-5	3/25/2010	<0.40	<1.0	<1.0	-	
MW-5	6/30/2010	<0.30	<1.0	<0.30	-	
MW-5	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-5	12/9/2010	<0.00030	<0.0010	<0.00030	-	
MW-5	3/28/2011	<0.00030	<0.0010	<0.00030	0.0012	
MW-5	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-5	12/9/2010	<0.001	<0.002	<0.002	<0.004	
MW-5	3/28/2011	<0.001	<0.002	<0.002	0.012	
MW-5	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-5	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-5	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-5	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-5	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	12/7/2012	<0.001	<0.002	<0.002	<0.003	

**APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-6	4/24/2002	<0.002	0.004	<0.002	0.123	
MW-6	5/21/2002	0.002	0.002	<0.002	0.047	
MW-6	4/28/2003	0.003	0.002	<0.001	0.01	
MW-6	6/19/2003	<0.001	<0.001	<0.001	<0.001	
MW-6	7/17/2003	<0.001	0.004	<0.001	0.004	
MW-6	8/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-6	9/22/2003	<0.001	<0.001	<0.001	<0.001	
MW-6	10/29/2003	<0.001	<0.001	<0.001	0.003	
MW-6	11/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-6	2/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-6	6/25/2004	<0.001	<0.001	<0.001	<0.001	
MW-6	10/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-6	12/9/2004	<0.001	<0.001	<0.001	<0.001	
MW-6	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-6	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-6	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-6	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-6	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-6	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-6	9/28/2006	<0.001	0.001	<0.001	<0.001	
MW-6	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-6	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-6	6/26/2007	<0.001	<0.001	<0.001	<0.002	
MW-6	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-6	12/27/2007	0.00074	0.0033	0.0013J	<0.006	
MW-6	12/29/2007	0.00074	0.0013	0.0033	<0.0014	
MW-6	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-6	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-6	6/27/2008	<0.002	<0.002	0.00098	<0.002	
MW-6	9/15/2008	<0.002	0.0031	<0.002	<0.006	
MW-6	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-6	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-6	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-6	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-6	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-6	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-6	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-6	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-6	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-6	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-6	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-6	6/30/2010	<0.0003	<0.0003	<0.001	<0.0006	
MW-6	9/13/2010	<0.00030	<0.0010	<0.00030	-	
MW-6	3/25/2010	<0.40	<1.0	<1.0	-	
MW-6	6/30/2010	<0.30	<1.0	<0.30	-	
MW-6	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-6	12/9/2010	<0.001	<0.002	<0.002	<0.004	
MW-6	12/9/2010	<0.00030	<0.0010	<0.00030	-	
MW-6	3/28/2011	<0.001	<0.002	<0.002	<0.004	
MW-6	3/28/2011	<0.00030	<0.0010	<0.00030	0.00077	
MW-6	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-6	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-6	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-6	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-6	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-6	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	12/7/2012	<0.001	<0.002	<0.002	<0.003	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission		0.01	0.75	0.75	0.62	
Groundwater Standards (mg/L)						
MW-7	4/24/2002	NI	NI	NI	NI	
MW-7	5/21/2002	NI	NI	NI	NI	
MW-7	4/28/2003	<0.001	<0.001	<0.001	<0.001	
MW-7	6/19/2003	<0.001	<0.001	<0.001	<0.001	
MW-7	7/17/2003	<0.001	<0.001	<0.001	<0.001	
MW-7	8/20/2003	<0.001	<0.001	<0.001	<0.001	
MW-7	9/22/2003	<0.001	<0.001	<0.001	<0.001	
MW-7	10/29/2003	0.001	0.001	0.001	0.006	
MW-7	11/20/2003	0.001	<0.001	<0.001	0.001	
MW-7	2/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-7	6/25/2004	<0.001	<0.001	<0.001	<0.001	
MW-7	10/18/2004	<0.001	<0.001	<0.001	<0.001	
MW-7	12/9/2004	<0.001	<0.001	<0.001	<0.001	
MW-7	3/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-7	6/3/2005	<0.001	<0.001	<0.001	<0.001	
MW-7	9/28/2005	<0.001	<0.001	<0.001	<0.001	
MW-7	12/12/2005	<0.001	<0.001	<0.001	<0.001	
MW-7	3/1/2006	<0.001	<0.001	<0.001	<0.001	
MW-7	6/26/2006	<0.001	<0.001	<0.001	<0.001	
MW-7	9/28/2006	<0.001	<0.001	<0.001	<0.001	
MW-7	12/21/2006	<0.001	<0.001	<0.001	<0.001	
MW-7	3/13/2007	<0.001	<0.001	<0.001	<0.001	
MW-7	6/26/2007	<0.001	<0.001	<0.001	<0.002	
MW-7	9/5/2007	<0.002	<0.002	<0.002	<0.004	
MW-7	12/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-7	12/29/2007	<0.00046	<0.00048	<0.00045	<0.0014	
MW-7	3/20/2008	<0.002	<0.002	<0.002	<0.006	
MW-7	3/20/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-7	6/27/2008	<0.002	<0.002	<0.002	<0.002	
MW-7	9/15/2008	<0.002	<0.002	<0.002	<0.006	
MW-7	12/1/2008	<0.002	<0.002	<0.002	<0.006	
MW-7	12/1/2008	<0.00046	<0.00048	<0.00045	<0.0014	
MW-7	3/11/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	3/11/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-7	5/27/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	5/27/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-7	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	9/24/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-7	12/18/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	12/18/2009	<0.00050	<0.00043	<0.00055	<0.0017	
MW-7	3/25/2010	<0.001	<0.002	<0.002	<0.004	
MW-7	3/25/2010	<0.40	<1.0	<1.0	-	
MW-7	6/30/2010	<0.0003	<0.002	<0.001	<0.0006	
MW-7	6/30/2010	<0.30	<1.0	<0.30	-	
MW-7	9/13/2010	<0.00030	<0.0010	<0.00030	<0.00060	
MW-7	9/16/2010	<0.001	<0.002	<0.002	<0.004	
MW-7	12/9/2010	<0.001	<0.003	<0.002	<0.004	
MW-7	12/9/2010	<0.00030	<0.0010	0.00056	-	
MW-7	3/28/2011	<0.001	<0.002	<0.002	<0.004	
MW-7	3/28/2011	<0.00030	<0.0010	<0.00030	0.00065	
MW-7	6/22/2011	<0.001	<0.002	<0.002	<0.004	
MW-7	6/22/2011	<0.00025	<0.0010	<0.00050	<0.0020	
MW-7	9/18/2011	<0.001	<0.002	<0.002	<0.004	
MW-7	12/9/2011	<0.0005	<0.001	<0.001	<0.001	
MW-7	3/11/2012	<0.001	<0.002	<0.002	<0.004	
MW-7	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-7	9/10/2012	<0.001	<0.002	<0.002	<0.003	
MW-7	12/7/2012	<0.001	<0.002	<0.002	<0.003	

APPENDIX B
HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission		0.01	0.75	0.75	0.62	
Groundwater Standards (mg/L)						
MW-8	4/24/2002	NI	NI	NI	NI	
MW-8	5/21/2002	NI	NI	NI	NI	
MW-8	4/28/2003	FPH	FPH	FPH	FPH	
MW-8	6/19/2003	FPH	FPH	FPH	FPH	
MW-8	7/17/2003	FPH	FPH	FPH	FPH	
MW-8	8/20/2003	FPH	FPH	FPH	FPH	
MW-8	9/22/2003	FPH	FPH	FPH	FPH	
MW-8	10/29/2003	FPH	FPH	FPH	FPH	
MW-8	11/20/2003	FPH	FPH	FPH	FPH	
MW-8	2/18/2004	FPH	FPH	FPH	FPH	
MW-8	6/25/2004	FPH	FPH	FPH	FPH	
MW-8	10/18/2004	FPH	FPH	FPH	FPH	
MW-8	12/9/2004	FPH	FPH	FPH	FPH	
MW-8	3/3/2005	NS	NS	NS	NS	
MW-8	6/3/2005	FPH	FPH	FPH	FPH	
MW-8	9/28/2005	FPH	FPH	FPH	FPH	
MW-8	12/12/2005	0.561	0.928	2.98	9.89	
MW-8	3/1/2006	FPH	FPH	FPH	FPH	
MW-8	6/26/2006	FPH	FPH	FPH	FPH	
MW-8	9/28/2006	0.24	0.239	0.791	2.27	
MW-8	12/21/2006	FPH	FPH	FPH	FPH	
MW-8	3/13/2007	0.42	0.437	0.977	3.35	
MW-8	6/26/2007	FPH	FPH	FPH	FPH	
MW-8	9/5/2007	FPH	FPH	FPH	FPH	
MW-8	12/27/2007	FPH	FPH	FPH	FPH	
MW-8	3/20/2008	0.28	0.15	0.35	2.8	
MW-8	3/20/2008	0.249	0.338	0.144	2.83	
MW-8	6/27/2008	0.18	0.0971	0.388	0.388	
MW-8	9/15/2008	0.14	0.17	0.25	2.42	
MW-8	12/1/2008	FPH	FPH	FPH	FPH	
MW-8	3/11/2009	0.219	0.133	0.257	3.76	
MW-8	3/11/2009	0.219	0.257	0.133	3.76	
MW-8	5/27/2009	0.719*	0.233*	2.00*	4.72*	
MW-8	8/7/2009	0.719	2.00	0.233	4.72	
MW-8	9/24/2009	0.775	0.238	2.52	5.1	
MW-8	9/24/2009	0.775	2.52	0.238	5.1	
MW-8	12/18/2009	0.409	0.114	1.11	5.24	
MW-8	12/18/2009	0.436	1.12	0.141	5.17	
MW-8	3/25/2010	0.691	45.6	63.4	2220	
MW-8	3/25/2010	0.69	63.4	45.6	-	
MW-8	6/30/2010	0.549	0.145	1.48	3.49	
MW-8	6/30/2010	0.59	1.5	0.15	-	
MW-8	9/13/2010	0.653	1.07	0.165	-	
MW-8	9/16/2010	0.653	0.165	1.07	6.37	
MW-8	12/9/2010	NS	NS	NS	NS	
MW-8	3/28/2011	0.443	0.0817	0.717	2.34	
MW-8	3/28/2011	0.448	0.712	0.0829	2.38	
MW-8	6/22/2011	0.204	0.444	0.0822	2.72	
MW-8	6/22/2011	0.204	0.444	0.0822	2.72	
MW-8	9/18/2011	0.682	0.699	0.112	3.03	
MW-8	12/9/2011	NS	NS	NS	NS	
MW-8	3/11/2012	0.0112	0.0227	<0.02	0.0333	
MW-8	6/8/2012	<0.001	<0.002	<0.002	<0.003	
MW-8	9/10/2012	0.00086	<0.002	0.00066	0.002	Duplicate Sample Collected
MW-8	12/7/2012	0.00063	<0.002	0.00086	<0.003	Duplicate Sample Collected

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HISTORICAL DATA
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
X-LINE PIPELINE RELEASE - ETCHEVERRY RANCH
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
New Mexico Water Quality Control Commission Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	

Notes:

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

2.) Data presented for the well locations includes previous four sampling events, when available.

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

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

NS = Not Sampled.

mg/L = milligrams per liter.

* Monitoring well MW-8 was converted to an Air Sparge Injection point prior to the fourth quarter 2011 groundwater monitoring event. Therefore, groundwater samples were not collected from that well.